

SELF STUDY REPORT

Submitted to



**NATIONAL ASSESSMENT AND ACCREDITATION
COUNCIL (NAAC), Bangalore, India**



Submitted by



Pimpri Chinchwad Education Trust's
Pimpri Chinchwad College of Engineering,
Nigdi, Pune, (M.S.), India - 411 044.

MARCH-2017



PIMPRI CHINCHWAD EDUCATION TRUST'S

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

(An ISO 9001:2008 Certified Institute)



- N.B.A. Accredited Courses ● Mech. Engg ● Comp. Engg ● E & TC. Engg ● I. T.
- Permanently Affiliated to Savitribai Phule Pune University, Pune
- Approved by A.I.C.T.E., New Delhi, Govt. of Maharashtra, D.T.E, Mumbai

Dnyaneshwar P. Landge
Chairman

Padmatai Bhosale
Vicechairman

Vitthalrao S. Kalbhor
Secretary

Dr. A. M. Fulambarkar
Principal

Ref. No. : PCCOE/C/L/2016-17/1588 -

Date : 22/03/2017

Covering Letter

To,
The Director,
National Assessment and Accreditation Council,
P.O.Box No. 1075, Nagarbhavi,
Bangalore – 560 072.

Subject: Submission of Self Study Report (SSR)

Dear Sir,

With reference to above subject, we had prepared the Self Study Report and uploaded on our institute website www.pccoepune.com.

The hard copy of the SSR along with the required documents and applicable A&A fees will be sent to office in due time.

With Regards



Amanagar
Dr. A. M. Fulambarkar
Principal

CONTENTS

| | |
|---|---------|
| Preface..... | i |
| List of Abbreviations..... | iii |
| Compliance Certificate..... | v |
| PCCOE at a glance..... | vi |
| 1 Preamble: Criteria wise Executive Summary..... | 1 |
| 2 SWOC Analysis of the institute..... | 12 |
| 3 Profile of the Institute..... | 14 |
| 4 Criteria wise Analytical Report | 24 -256 |
| a. Criterion I: Curricular Aspects..... | 24 |
| b. Criteria II: Teaching Learning and Evaluation..... | 45 |
| c. Criteria III: Research Consultancy and Extension..... | 90 |
| d. Criteria IV: Infrastructure and Learning Resources..... | 132 |
| e. Criteria V: Student Support and Progression..... | 159 |
| f. Criteria VI: Governance, Leadership and Management..... | 198 |
| g. Criteria VII: Innovations and Best Practices..... | 235 |
| 5 Department Evaluation Report | 247-450 |
| 1. Department of Mechanical Engineering..... | 247 |
| 2. Department of Electronics and Telecommunications Engineering.. | 278 |
| 3. Department of Computer Engineering..... | 305 |
| 4. Department of Information Technology Engineering..... | 342 |
| 5. Department of Civil Engineering..... | 377 |
| 6. Department of First Year Engineering..... | 397 |
| 7. Department of Master of Business Administration..... | 421 |
| 8. Department of Master of Computer of Application | 434 |
| 6 Declaration of Head of the Institute..... | 451 |
| 7 Annexures | 452-464 |
| 7.1 Certification of recognition 2(f) & 12(b) | |
| 7.2 University Affiliation Letter | |

- 7.3 AICTE Approval Letter
- 7.4 NBA Accreditation Certificate
- 7.5 ISO Certificate
- 7.6 Master Layout of PCCoE

PREFACE

Pimpri Chinchwad College of Engineering (PCCOE), established in the year 1999 – 2000 by Pimpri Chinchwad Education Trust (PCET), is today one of the Premiere Institutes in and around Pune, that envisions to serve the Society, Industry and all its Stakeholders through ‘Value Added Quality Education’. PCCOE is functioning proactively to provide the best Professional Environment to Engineering and Management Students.

We at PCCOE are constantly making endeavors to ensure that our Students scale new heights by developing synergy between Academic Knowledge, Technical Skills set and Personality traits, high Moral Values and sensitivity to the Environment, Society and the Nation at large. In line with this thought process, PCCOE has evolved a ‘Four pillar Philosophy’ that strongly focuses on Academic Excellence, Innovation & Research, Professional Competence and Social Commitment.

PCCOE that started in 1999 has today become a well recognized Technical Institution for imparting Quality Technical Education owing to the constant, sincere and dedicated efforts of Teaching and Administrative Staff who have been channelizing all the efforts towards strengthening of these Four Pillars and the outcomes are evident. Today we hold a good position in University in terms of Academic Results, have more than 144 Patents and 1040+ Research Papers of Students and Faculty in renowned Journals, Research Grants for our Faculty, collaboration with Industries and Organizations of repute through MoUs and excellent Placement in Core and IT Companies. We are committed to grow further in new dimensions to seamlessly fit into the Global Fabric and be at par with the Global Standards of Excellence.

We always work as ‘Team PCCOE’ which involves all our Students, Academic and Administrative Staff Members and we feel happy to mention that we are a very strong Team of committed individuals who are fortunate to be working in a very conducive and healthy environment where in wellbeing and development of the Students and Staff Members is of utmost importance.

We further aim to create aesthetically Sensitive, Socially Committed and Technologically Competent Engineers and Management Professionals and thus have defined Quality Objectives in accordance with Four Pillar Philosophy, Institute Vision and Mission.

PCCOE leverages the strengths that it has developed over the past decades, build upon them and acquire new Strengths and is striving to emerge as a Prominent Hub in Technical Education and Research thereby contributing to the Social and Global Initiatives.

The salient features of the institute are:

- Recognition under the 2(f) and 12 (B) UGC scheme.
- NBA Accreditation for undergraduate programs in Mechanical, Computers, Electronics and Telecommunication and Information Technology since July 2016 (Second Time).
- An ISO 9001: 2008 certified institute. Applied for recertification as per ISO 9001:2015 standards.
- *Permanently affiliated* to Savitribai Phule Pune University, Pune.
- Ranked at 52nd position amongst all Private Engineering colleges in India and also ranked at 101st position amongst all engineering institutes in India in *TIMES Engineering Institute Ranking Survey 2016*.
- Honoured with *Engineering Education Excellence Award 2015* by Indo Global Chamber of Commerce Industries and Agriculture.
- Ranked in Top 100 Engineering Institutes in India by *Outlook Survey-2015* including IITs & NITs.
- Ranked as 8th Best Private Engineering institute in West India (Maharashtra, Gujarat, MP, Rajasthan, Goa etc.) & given 62nd All India rank by “*DataQuest Engineering Colleges Survey-2015*”.
- Awarded as “*Outstanding Engineering Institute - West India*” by *Lokmat National Education Leadership Awards -2015*.
- Ranked in top 50 Private Engineering institute in India by “*Times Engineering Institutes Survey-2014*”.
- Honoured with '*College of Substance*' award by *Natarajan education Society*.
- “*Best College Award*” by Board of Student Welfare, *Savitribai Phule Pune University*.

Dr. A. M. Fulambarkar

Principal

LIST of ABBREVIATIONS

| | |
|-----------|---|
| AICTE | All India Council for Technical Education |
| ARM | Academic Review Meeting |
| ASCE | American Society of Civil Engineers |
| ASME | American Society of Mechanical Engineers |
| BCUD | Board of College and University Development |
| BE | Bachelor of Engineering |
| BoS / BOS | Board of Studies |
| CAP | Centralized Admission Process |
| CAT | Common Admission Test |
| CDM | Content Delivery Method |
| CII | Confederation of Indian Industry |
| CSI | Computer Society of India |
| DAB | Departmental Advisory Board |
| DRDO | Defense Research & Development Organization |
| DST | Department of Science & Technology |
| DTE | Directorate of Technical Education, Maharashtra State, Mumbai |
| EDC | Entrepreneurship Development Cell |
| ERP | Enterprise Resource Planning |
| FDP | Faculty Development Program |
| GATE | Graduate Aptitude Test in Engineering |
| GB | Governing Body |
| GRE | Graduate Record Examination |
| HoD | Head of the Department |
| ICT | Information and Communication Technology |
| IE | Institute of Engineers |
| IEEE | Institute of Electrical and Electronics Engineers |
| IETE | Institute of Electronics and telecommunication Engineers |

| | |
|---------|--|
| III | Industry Institute Interaction |
| IPR | Intellectual Property Rights |
| IQAC | Internal Quality Assurance Cell |
| IQAS | Internal Quality Assurance Service |
| ISLE | Indian Society of Labour Economics |
| ISO | International Organization for Standardization |
| ISR | Institutional Social Responsibility |
| ISSN | International Standard Serial Number |
| ISTE | Indian Society for Technical Education |
| IUCEE | Indo-US Collaboration for Engineering Education |
| LMC | Local Managing Committee |
| LOI | Letter of Intent |
| MBA | Master of Business Administration |
| MCA | Master of Computer Application |
| ME | Master of Engineering |
| MODROBS | Modernization and Removal of Obsolescence |
| MOU | Memorandum of Understanding |
| MRM | Management Review Meeting |
| MSEDCL | Maharashtra State Electricity Distribution Company Limited |
| NBA | National Board of Accreditation |
| NCC | National Cadet corps |
| NDRF | National Disaster Response Force |
| NGO | Non-Governmental Organization |
| NPTEL | National Programme for Technology Enhanced Learning |
| NSS | National Service Scheme |
| NT | Nomadic Tribes |
| OBC | Other Backward Class |
| OPAC | Online Public Access Catalog |
| PCCoE | Pimpri Chinchwad College of Engineering |

| | |
|-------|--|
| PCM | Physics, Chemistry, Mathematics group |
| PCMC | Pimpri Chinchwad Municipal Corporation |
| PEO | Programme Education objectives |
| PG | Postgraduate |
| Ph.D | Doctor of Philosophy |
| PLC | Programmable Logic Control |
| PO | Performance Outcome |
| PUC | Pollution Under Control |
| QIP | Quality Improvement Program |
| RPS | Research Promotion Scheme |
| SBC | Special Backward Class |
| SC | Scheduled Caste |
| SPPU | Savitribai Phule Pune University |
| ST | Scheduled Tribes |
| STTP | Short Term Training Programme |
| TOEFL | Test of English as a Foreign Language |
| TPO | Training and Placement Office |
| UG | Undergraduate |
| UGC | University Grants Commission |



PIMPRI CHINCHWAD EDUCATION TRUST'S

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

(An ISO 9001:2008 Certified Institute)



- N.B.A. Accredited Courses • Mech. Engg • Comp. Engg • E & TC. Engg • I. T.
- Permanently Affiliated to Savitribai Phule Pune University, Pune
- Approved by A.I.C.T.E., New Delhi, Govt. of Maharashtra, D.T.E, Mumbai

Dnyaneshwar P. Landge
Chairman

Padmatai Bhosale
Vicechairman

Vitthalrao S. Kalbhor
Secretary

Dr. A. M. Fulambarkar
Principal

Ref. No. : PCCOE/C/2016-17/1589

Date : 22/03/2017

Certificate of Compliance

(Affiliated/Constituent/Autonomous Colleges and Recognized Institutions)

This is to certify that Pimpri Chinchwad College of Engineering, Nigdi, Pune, Maharashtra, fulfils all norms

1. Stipulated by the affiliating University and/or
2. Regulatory Council/Body such as AICTE and
3. The affiliation and recognition is valid as on date.

It is noted that NAAC's accreditation, if granted, shall stand cancelled automatically, once the institution loses its University affiliation or Recognition by the Regulatory Council, as the case may be.

In case the undertaking submitted by the institution is found to be false then the accreditation given by NAAC is liable to be withdrawn. It is also agreeable that the undertaking given to NAAC will be displayed on the college website.



A. M. Fulambarkar
Dr. A. M. Fulambarkar
Principal

Date:

Place: Pune

PCCOE at a GLANCE

| Undergraduate Programmes | First Shift | Second Shift |
|---|--------------------|---------------------|
| Mechanical Engineering | 120 | 60 |
| Computer Engineering | 120 | 60 |
| Electronics & Telecommunication Engineering | 120 | 60 |
| Information Technology | 60 | |
| Civil Engineering | 60 | |
| Total Strength | 480 | 180 |

| Postgraduate Programmes | First Shift | Second Shift |
|--|--------------------|---------------------|
| Masters in Computer Engineering | 18 | |
| Masters in Electronics and Telecomm. Engineering (VLSI & Embedded Systems) | | 18 |
| Masters in Mechanical Engineering (Design) | 18 | |
| Masters in Mechanical Engineering (Heat Power) | | 18 |
| Masters in Information Technology | 24 | |
| Master in Computer Application (MCA) | 60 | |
| Master in Business Administration (MBA) | 60 | |
| Total Strength | 180 | 36 |



PREAMBLE: CRITERIA WISE EXECUTIVE SUMMARY

CRITERIA 1: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

Institute has futuristic vision, mission and objectives which are well communicated to its stakeholders. Institute has five undergraduate programs in engineering, five post graduate programs in engineering along with Master of Computer Application and Master of Business Administration programs affiliated to Savitribai Phule Pune University, Pune and follow the curriculum and academic policies prescribed by the University. Faculty members are involved in curriculum design in various capacities as Academic Council Member, Chairman of Board of Studies and Course Chairman.

Faculty members actively participate in framing and drafting of the curriculum. Workshops for curriculum designing are organized at the Institute and faculty is involved as resource persons and coordinators at such workshops.

Institute is driven by the disciplined academic culture to address the learning needs of students. Institute follows the philosophy of Plan-Do-Check-Act (PDCA) while implementing the teaching-learning process meticulously ensuring systematic planning, intended execution, scrupulous monitoring and necessary improvements.

1.2 Academic Flexibility

Being an affiliated institute, curriculum flexibility is limited to elective courses at UG and PG within the framework of SPPU. Flexibility in curriculum is offered to select the elective in UG and PG programs. Institute supplements the need based demand by offering value addition courses over and above the curriculum.

Curriculum offers flexibility in selecting electives at UG and PG courses. Open elective which include interdisciplinary courses and customized industry based courses are accommodated in the curriculum. A provision of having Audit courses is also provided in the curriculum.

1.3 Curriculum Enrichment

Institute has a vision to prepare engineers to respond to the Society, Industry and all the Stakeholders through the value added quality education. Value Added add-on training programs are arranged to bridge the gap between academia and industry expectations and to strengthen the regular academic programs prescribed by the University.

Institute consistently takes efforts to achieve institution objectives through the curriculum, add-on and personality development courses. The inputs from the stakeholders and the data collected through surveys are analyzed and compared with the existing

curriculum. The gap in the existing curriculum is identified and summarized as key expectations.

In addition, periodic industrial visits; expert lectures from industry, academia and research organization; internship training programs; organization and participation at various Workshops/Seminars, Symposium, Techfests, entrepreneur development program, career guidance are organized in association with the professional societies like ISTE, IETE, CSI, ACM, IEEE, etc. where students get a platform to interact on assorted ideas leading to development of publications and projects.

1.4 Feedback System

Institute approaches the alumni, employers, industry and parents through a well-defined formal mechanism, for the inputs on curriculum through feedback. Analysis of this feedback is conveyed to the BoS for revision of the curriculum. Suggestions of the stakeholders are implemented through number of enrichment programs at the Institute.

Feedback from alumni, employers and society is taken annually, whereas feedback from industry and parents is taken once in a semester. As a result, open elective course, Automotive Electronics is framed in collaboration with KPIT and is approved by SPPU for B.E Electronics and Telecommunication Engineering Students. Open Elective course, Steam Engineering & Energy Management is framed in collaboration with Forbes Marshall, Pune and is **under approval by SPPU** for B.E Mechanical Engineering Students.

CRITERIA II: TEACHING LEARNING AND EVALUATION

2.1 Student enrolment and profile

Student admission at the Institute is centralized, purely on merit as per the common entrance test conducted by Directorate of Technical Education (DTE) Maharashtra state. Institute supports this admission process by being one of the ARC for admission to UG engineering programs.

Counseling is done for all the aspiring students regarding career, selection of programme, financial support, scholarships and prospects available for students. Admission process of the Institute is transparent as it strictly adheres to the rules and regulations formulated by the government and SPPU. Institute follows the guidelines of DTE regarding reservations to the backward classes, J & K and management quota.

2.2 Catering to student diversity

Institute consciously plan its strategies which comprises of care for differently-abled, economically backward and rural students through Student Development and Welfare cell. Special support in infrastructure, library facilities food and accommodation is provided to the needy students. Students are informed about the various support cells like

Communication and Personality Development Cell, Professional Development Cell, Students Welfare, Grievance Handling Cell, Anti ragging, etc. at the first year induction program. Coordinators of the cell create awareness and support the students for any issues.

2.3 Teaching learning process

Academic calendar is meticulously planned and prepared in advance. Dean academics at the Institute ensure the proper implementation of the academic calendar and communicate to the students in advance. Institute plans and deploys the teaching learning and evaluation schedules systematically with well drafted processes standardized by ISO.

Teaching learning is a blend of traditional and modern teaching methods. Institute provides all the support and resources needed for Content Planning (Contents and Content beyond Syllabus, Course Outcomes and targets, Activities, Teaching Plans, CDMs, Evaluation and Assessment Methods. Industrial visits, study tours, in plant training are regular features to have practical exposure.

Interdisciplinary and sponsored projects are encouraged. Institute organizes expert lectures, seminars and workshops to enhance advanced learning. Value added courses to bridge the gap in curriculum are prominently adopted by the Institute.

2.4 Teacher Quality

Institute has a right blend of qualified, experienced and competent faculty members. Institute adheres to the prescribed guidelines of AICTE, State Government and SPPU in recruitment of faculty. There are 217 faculty members amongst which 27 are Ph.D. and 190 are post graduate. Faculty members are trained to use pedagogical methods for effective teaching-learning through programs like FDP, refresher courses and training programmes conducted by SPPU and other institutes. Well defined strategies are adopted for faculty retention and welfare.

2.5 Evaluation Process and Reforms

The policies and procedure of SPPU are scrupulously followed for evaluation and assessment. An examination section is in existence at the Institute which ensures the smooth facilitation of examination through Chief Examination Officer.

The evaluation through formative and summative assessment approaches gives insights regarding student performance which helps to identify learning needs and take necessary actions for possible improvement. Academic calendar at the Institute ensures continuous internal assessment which is in line with the university calendar. It is conveyed to the parents through Parent Teacher meet and appropriate measures are taken to improve the results.

Institute supports university in evaluation process through faculty members as chairperson of a particular course, chairperson for practical exam, plans exam time table and

ensures the proper allocation of examiners for this course. Also, faculty members are examiners for assessment process. Institute contributes to the university examination evaluation process as a Central Assessment Programme (CAP) centre.

2.6 Student Performance and Learning Outcomes

The institute has clearly stated the learning outcomes for each academic program. The POs define the abilities of the students of that program expect at the time of graduation and COs are the learning outcomes that the students imbibe at the end of each course. Institution has a well-defined process to monitor the progress and performance of students implemented at department level. Student centric approach has lead to good results at the university. Institute has a track record of University toppers in last few years.

CRITERIA III: RESEARCH CONSULTANCY AND EXTENSION

3.1 Promotion of Research

The institute has a separate Research and Development (R&D) Cell headed by Dean R&D. The R&D cell comprises of dedicated team of faculty representation from all departments. The main objective of this cell is to inculcate R&D culture in the institute. So, this cell have formed Special Interest Groups (SIG's) in all the department, where faculties as per their expertise domain gets enrolled in respective SIG's and promotes the research activities amongst all the students.

The SIG promote the research culture by conducting various events such as awareness workshops, trainings, competitions, and lectures for the students on a regular basis. The R&D cell of the institute has successfully motivated the students and faculty for filing the patents. Policies related to research are formulated by a core committee comprising of all Deans and HODs headed by Principal, so as to smoothen and strengthen the research promotional activities.

The impact of R & D promotion and recommendations of the R&D cell is reflected in the following:

- 144 patents were filed by the students and faculty in last three years
- Number of faculty with PhD are 27 and 34 faculty members are pursuing PhD.
- Student's participation is increasing in National and International events such as ACM-ICPC, ACM-W, SAE BAJA, SAE SUPRA, ROBOCON, e-Yantra (Robotics Design), AVISHKAR-University Research Competition and various conferences. They have received awards for Innovation, Design. etc.
- There is increase in the research proposal submission to various funding agencies.

3.2 Resource Mobilization for Research

The Institute has a well-structured policy for research promotion and funding. Institute has R&D budget to a tune of 50 lakhs which are allotted to all department for UG and PG programmes.

- Sufficient Research funds allocated in the annual budget of the Institute for every department to accommodate the research activities.
- Rs. 66.68 lakhs have been received from various funding agencies.
- Institutional budgets are provided for procurement special equipment, instruments, tools and softwares necessary to promote research
- Provision of labs for research purpose during extended time as per requirement.
- Optimum utilization of resources like library, labs, computing facility.
- Incentives in the form of awards, registration fees for participation in various conferences and workshops.
- Financial support to students for participating in prestigious competitions.
- Institutional funding for organizing various research events, technical exhibition, conferences, workshops.

3.3 Research Facilities

The Institute has good research facilities. All the laboratories are well equipped with necessary instruments and softwares to cater the academic needs and support research activities. Institute has provision for ICT, e-learning resources, e-journals and high speed internet. Researchers are given liberty to purchase equipment as per their needs within budgets.

3.4 Research Publications and Awards

There is a significant boost in the number of publications over the last four years. The numbers of publication contributed by faculty and students in last four years are 1039. Students and faculty are enthusiastically taking part in the various events, Conferences, Symposium and receive the awards and recognitions.

To mention a few, our students secured first position at national level SAE SUPRA competition. Our Red Barren team of students stood first in design and second in national event Enduro Student India at Coimbatore. The Solariun team received green initiative award by MPTA education. Faculty members received best paper awards in conferences, awards in research project competition organized at University level. Three projects were selected as University representative teams of State level research project competition AVISHKAR 2016

3.5 Consultancy

The college has decided the targets for the departments for the revenue generation through consultancy work. The policies for the following types of consultancies are formulated

- Industrial consultancy such as the testing assignments, sponsored projects etc.
- Conducting add on courses/ training programs for the students and industrial delegates.
- Conducting professional competence improvement programs.

The basic infrastructure required for carrying out the consultancy is also made available. The faculty members have started approaching the industries. College is also keen in inviting the industries for various endeavors to join hands for bridging the gap between industry and academia.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

The institute works on four pillar philosophy. One of the important pillars is the Social commitment. The institute believes that along with grooming the students in the technical professionalism, the concern for the society, human values shall also be nurtured. Hence in order to provide the opportunity to students for their development in this domain, institute undertakes various endeavors that help the various sections of society.

The institute has undertaken various ISR activities such as Computer literacy of the school teachers and staff from villages, village development through camps. The institute has adopted two villages for the development in education, cleanliness, missions against the bad habits, superstition, environmental issues, women empowerment etc.

Our students have demonstrated their concern about the society by undertaking the projects that will save the environment, save energy, produce energy etc. In the technical festivals, they design the competitions provoking the help to the needy and weaker section of the society.

3.7 Collaborations

The institute supports various kinds and modes of collaboration with industries and reputed institutions for its holistic growth. Through these collaborations, the quality of teaching-learning; research activities; up gradation of learning resources, laboratory and testing facilities and training and placement are enhanced.

In total, the Institute has around 36 MoUs with industries and academic organizations.

CRITERIA IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

The institute provides state of the art infrastructure to address the need of an effective teaching and learning process. In addition to the norms laid by the AICTE, DTE and SPPU for physical infrastructure to cater co-curricular and extra-curricular activities, the policy is to provide educational infrastructure for students in terms of laboratories, software and equipment, library resources, and well-furnished classrooms etc.

Exclusively designed Training and placement cell provides adequate infrastructure for trainings, placement and cocurricular & extracurricular activities. Ramps are provided for differently-abled students. Sports ground, indoor games facilities are provided by the Institute.

4.2 Library as Learning Resource

Central library of the Institute is of 726 sq.mtr area with 200 seating capacity. It is enriched with state of the art content and well maintained by qualified and competent staff. Library has 42045 books, over 1000 journals (electronic & print), referrals and magazines. High bandwidth internet facility is available with dedicated computers for the digital library. Library is open beyond the working hours to support learning and research activities. Library committee of the Institute plans periodical up-gradation of books, journals, magazines, periodicals and the maintenance.

4.3 IT Infrastructure

Systems and IT support Department, at central level, is catering the needs of IT infrastructure like computing facility, internet connectivity, website and ERP. 6 servers, 26 workstations and 1645 computers in the Institute, with networking, are sufficient to fulfil the needs of all academic programs, library, self learning facilities and administration. Dedicated internet facility is available having a speed of 179 Mbps and 22 Mbps exclusively for WIFI.

Institute is using ERP system in day to day administrative and academic process. The institute has currently state-of-art RUCKUS Wi-Fi access points to provide the Wi-Fi internet access through Wi-Fi zones. The institute is planning to extend this further to create and establish a Wi-Fi enabled campus.

4.4 Maintenance of Campus Facilities

Maintenance committee takes care of academic infrastructure and facilities. A well-defined organizational structure and Processes are established and followed as per the norms of ISO 9001:2008 (drafted in Maintenance and Fire and Safety Process Manual) to carry out the day to day maintenance of these facilities. Maintenance committees carry out work in following major areas –

- a) Mechanical Maintenance
- b) Electrical Maintenance
- c) Civil maintenance
- d) Fire and Safety
- e) Computers and Peripherals.

These committees have defined objectives to ensure regular up keepment and maintenance of all facilities. Activities of these committees are reviewed regularly through review reports and internal audits. Preventive maintenance schedules are prepared and monitored.

Annual Maintenance contracts with external agencies are made to ensure upkeepment, safety and security of the Campus.

CRITERIA V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

Institute has a well defined and documented mentor system (Parent Teacher Guidance) with one mentor for 20 students, which mentors the students in academic and personal matters. Financially weaker students are guided and assisted to get scholarships from various government and private organizations. Institute has made a provision to give financial support to meritorious and needy students. Regular communication with parents regarding attendance, marks and any other problems is done through parent teacher meet, ERP, SMS and in some cases by direct calls. Professional counsellor is made available to students once in week for emotional, social, mental and spiritual counselling.

Training and placement cell, in addition to the placement activities provides career and higher education counselling. Students are provided trainings for communication skills, foreign languages and industry specific needs. Mock interviews, group discussions are practiced throughout the semester. Institute has Language laboratory to cater to the needs communication skill.

EDC at the Institute motivates students to be entrepreneurs by organizing various activities like seminars, workshops, lectures of national and international experts.

5.2 Student Progression

Overall performance of the Institute in university examinations is commendable and has a track record of University Rankers. Efforts are taken on the weak learners to intensify their results. Most of the eligible students opt for placement through on campus and off campus drives.

Students are motivated for higher studies through Training and Placement department by arranging awareness workshops, training seminars and in-house guidance for higher study entrance examinations like GATE. On an average 95 % of the eligible students are placed through campus drives and 5% of the students go for higher studies.

5.3 Student Participation and Activities

Organization of cocurricular and extracurricular activities is the catalyst for students overall development. Planning of these activities and execution is reflected in academic calendar of the institute.

Students chapter of various professional bodies are active at the Institute and regularly organize inter college and intra college technical events. Students are supported and provided with adequate sports facilities. Institute has cricket, football, volleyball, box football, chess and carom teams participating regularly at inter collegiate tournaments.

NSS unit at the Institute is energetic which organizes number of activities for the society. Camp is regular activity where a village is adopted and awareness as well as development of village is carried out.

Art Circle of the Institute has fetched many laurels with their excellent activities. Students carry out regular social activities like creating traffic awareness, helping children at orphanage, supporting elders at old homes, Swach Bharat Abhiyan.etc.

CRITERIA VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

Since its inception, primary focus of the management was to cater growing needs of the Industry and Society at large and provide value based education to masses at affordable cost, simultaneously grooming students to global standards.

The Vision, Mission has been set up to make the Institution the most favorable and promising place to achieve technical competence and carry out Engineering Research for all of its stake holders in the Society.

PCCoE is functioning proactively to provide the best professional environment to engineering and management students in terms of academics, project based learning, industry oriented trainings, sports, co-curricular & extracurricular activities, cultural activities, various competitions, etc to create true aesthetically sensitive, socially committed and technologically competent engineers and management professionals.

The Institute is able to witness progressive growth due to its Excellent Governance, Entrancing Leadership and Inspirational management. The governance comprising of GB, LMC, DAB play significant role to bring evolutionary reforms towards academic excellence. A strong belief in promoting a culture of delegation of powers through strategic policies and operational transparency are the main attributes of the institution. The Principal of Institute is assisted by Deans, HODs, administrative head, Section in charges and coordinators of various cells in decision making process at the Institute.

6.2 Strategy Development and Deployment

To follow Mission and Vision, the Institute has a formally stated Quality Policy. The Institute also has Quality Objectives, a mechanism to enumerate the Quality Policy, for effective deployment.

The Quality Policy is framed under the Guidance of top management, Principal, Deans, Heads of Respective Departments, Section In-charges and Stake Holders. To develop the quality policy initially the inputs were received from Teaching and non Teaching staff, Students, Alumni, Parents and Industry.

6.3 Faculty Empowerment Strategies

The management of the institutes believes that the faculty is a key to success. Therefore in order to maintain the pace of its dynamic growth, the institute always encourages staff members to go for higher studies, participation in various national and international seminars, conferences, technical events etc. to keep their knowledge up to date. Faculty is encouraged for qualification enhancement. Performance appraisal of faculty is done annually. Various promotional and welfare schemes are available for teaching and non-teaching staff associated with the Institute

6.4 Financial Management and Resource Mobilization

The institute takes utmost care for preparing its financial budget, its allocation and utilization by the respective departments and sections. There are various budget heads taken into consideration and as per the requirement the allocations are done.

The management has appointed internal auditors for statutory auditing and monitoring the financial transactions.

6.5 Internal Quality Assurance System

The Institute has implemented the QMS (Quality Management System) since 2012 and has received the ISO 9001:2008 certification in January 2014, (TUV NORD INDIA). As per the XII Plan Guidelines for Establishment and Monitoring of the Internal Quality Assurance Cells (IQACs) in accordance with the UGC guidelines, the IQAC is constituted in the formal way from academic year 2016-17. But prior to formation of IQAC the QMS system was in implementation. The Institute has its own Internal Quality Assurance system working in line with the ISO processes to streamline and support for ensuring the quality in Academic Processes and overall Administration of the Institute.

CRITERION 7: INNOVATION AND BEST PRACTICES

7.1 Environment Consciousness

Pimpri Chinchwad Municipal Corporation (PCMC) has awarded First prize to PCCoE as Green Educational Campus in entire vicinity based on the Green Audit conducted by officials of PCMC. Green Audit of the campus has been performed by the Institute.

The Beautification Committee has taken various efforts under the guidance of institute leadership to keep campus clean, green and pleasant. Diversity has been very well kept in mind while planting trees in campus. All the buildings in the campus are constructed

by taking due care for minimum consumption of electricity, maximum illumination and ventilation. Although there is no direct measurement, but this electricity saving add directly to the reduction of carbon footprint.

The use of plastic bags is avoided in the campus and declared the entire campus as “No Plastic Zone”.

7.2 Innovations

Numbers of innovations are introduced at the Institute which had lead to notable achievements. To name a few: Research and Development Cell; Innovation and Incubation Centre; Parent Teacher Guardians (PTG); Activity Based Learning; Regular Academic Reviews; Scrupulous Planning; Event organization; Language Lab; Curricular and Extra-curricular Activities; Add-on Courses and Training Offered for Certification.

7.3 Best Practices

The Institution has adopted and initiated number of best practices marking towards quality improvement. To mention a few: Holistic Growth through Student Development and Welfare Activities; Project Based Learning.

SWOC ANALYSIS

Strength

1. Institute is located in the heart of Pimpri Chinchwad City and in the close vicinity of industrial hub.
2. Academic excellence achieved through continuous improvement.
3. Innovative teaching-learning practices and project based learning.
4. Effective governance through Quality Management System.
5. Well established systems and procedures certified by ISO and accredited by NBA.
6. Good placement records and industry interactions through extensive in-campus and off-campus placement drives.
7. Holistic development of students through co-curricular and extracurricular activities.
8. Well qualified, experienced and enthusiastic faculty and staff.
9. Encouraging and very supportive management with vision for the institute.
10. Well-disciplined and cultured students supporting the most conducive environment for learning and self-development.
11. Infrastructure and laboratory facilities supporting Academics, Research and professional development of students, faculty and staff.
12. Excellent and well maintained green campus appreciated and admired by stakeholders and visitors.
13. Good Mentoring system.

Weakness

1. Although the academic requirements as per course curriculum are satisfied, the need of additional building construction for supportive facilities like residential campuses
2. Being an affiliated institute the freedom of designing and implementing flexibility in course curriculum puts limitations for visionary growth.
3. Efforts towards revenue generation through research, consultancy, testing being in developing stage, and financial constraints for intensified growth prevail.

Opportunity

1. Establishing state-of-the-art laboratories in collaborations with reputed industries and organization.
2. Research publications in index national and international journals, patents, start-ups through incubation.
3. Revenue generation through collaborative and consultancy projects, training and testing facilities.
4. Catering to weaker section of society through various trainings, projects and necessary support.

5. Academic autonomy for curriculum development and implementation.
6. Contributing for nation building through active participation in various national level missions, addressing technological thrust areas such as Digital India, Smart Cities, Smart Villages, Clean India, etc.

Challenges

1. To ensure quantitative and qualitative admissions as per sanctioned intake in the present competitive scenario due to exponential increase in number of technical institutes.
2. To enhance placements in core companies anticipating changes in global scenario.
3. To train and empower students for higher studies in very reputed national and foreign universities and / or entrepreneurial ventures.
4. To uphold the financial stability on the institute through ensuring full admissions, adequate revenue generation through research, consultancy, testing, etc.
5. To come up as a promising autonomous institute offering world-class technical and management institute providing competent engineers and management leaders to take up national and global challenges.

PROFILE OF THE INSTITUTE

1. Name and address of the college:

| | | | |
|----------------|--|---------------------|---------------------------|
| Name | : PCET's Pimpri Chinchwad College of Engineering (PCCoE) | | |
| Address | : Sector No. 26, Pradhikaran, Nigdi, | | |
| City | : Pune | Pin: 411 044 | State: Maharashtra |
| Website | : www.pccoepune.com | | |

2. For communication:

| Designation | Name | Telephone with STD code | Mobile | Fax | Email |
|--------------------------------|----------------------|--|--------------------------|-------------------|---------------------------|
| Principal | Dr. A.M. Fulambarkar | O: 020 – 27653168 020-27653166 R: 020 – 27659223 | 9226094801 9822567832 | 020 - 27641023 | pccoeadmin@gmail.com |
| Vice Principal | NA | O: R: | | | |
| Steering Committee Coordinator | Dr. N. R. Deore | O: 020-27653166 R: 9657707616 | 9226094841 9657707616 | 020 - 27641023 | naren.deore@pccoepune.org |

3. Status of the Institution:

Affiliated College

Constituent College

Any other (specify)

| |
|---|
| √ |
| |
| |

4. Type of Institution:

a) By Gender

i. For Men

ii. For Women

iii. Co-education

| |
|---|
| |
| |
| √ |

b) By Shift

i. Regular

ii. Day

iii. Evening

| |
|---|
| √ |
| |
| √ |

5. It is a recognized minority institution?

Yes

| |
|---|
| |
| √ |

No

If yes specify the minority status (Religious/linguistic/ any other) and provide documentary evidence.

NA

6. Sources of funding:

Government

Grant-in-aid

Self-financing

Any other

| |
|---|
| |
| |
| √ |
| |

7. a) Date of establishment of the college: **14 / 07 / 1999** (dd/mm/yyyy)

b) University to which the college is affiliated /or which governs the college (If it is a constituent college)

Savitribai Phule Pune University (SPPU), Pune, Maharashtra.

c) Details of UGC recognition:

| Under Section | Date, Month & Year (dd-mm-yyyy) | Remarks(If any) |
|---------------|---------------------------------|---|
| i. 2 (f) | 25/03/2015 | The college is eligible to receive Central Assistance in terms of rules framed under section 12(B) of the UGC act 1956. However, the institute being self-financing and unaided, would be eligible to receive UGC's support only in respect of teachers and students' related schemes as per the decision of the Commission dated 8 th July 2011. |
| ii. 12 (B) | 25/03/2015 | |

(Enclose the Certificate of recognition u/s 2 (f) and 12 (B) of the UGC Act)

d) Details of recognition/approval by statutory/regulatory bodies other than UGC (AICTE, NCTE, MCI, DCI, PCI, RCI etc.)

| Under Section/ clause | Recognition/Approval/Details Institution / Department Programme | Day, Month and Year | Validity | Remarks |
|--------------------------|--|------------------------|----------|---------|
| i. | Mechanical Engg. (First Shift) | 14/07/1999 | 1 Year | Yearly |
| ii. | Computer Engg. (First Shift) | 18/06/2001 | 1 Year | Yearly |
| iii. | Information Technology (First Shift) | 18/06/2001 | 1 Year | Yearly |
| iv. | Electronics & Telecommunication (First Shift) | 18/06/2001 | 1 Year | Yearly |
| v. | MCA | 19/07/2007 | 1 Year | Yearly |
| vi. | MBA | 30/06/2008 | 1 Year | Yearly |
| vii. | Mechanical Engg. (Second Shift) | 23/08/2010 | 1 Year | Yearly |
| viii. | Electronics & Telecommunication (Second Shift) | 23/08/2010 | 1 Year | Yearly |
| ix. | ME – Computer Engg. | 01/09/2011 | 1 Year | Yearly |
| x. | Civil Engg. (First Shift) | 10/05/2012 | 1 Year | Yearly |
| xi. | Computer Engg. (Second Shift) | 10/05/2012 | 1 Year | Yearly |
| xii. | ME – Mechanical Engg.- Design | 10/05/2012 | 1 Year | Yearly |
| xiii. | ME – VLSI & Embedded System | 10/05/2012 | 1 Year | Yearly |
| xiv. | ME – Heat Power Engg. | 10/05/2012 | 1 Year | Yearly |
| xv. | ME – Information Technology | 04/06/2014 | 1 Year | Yearly |

(Enclose the recognition/approval letter)

8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated colleges?

Yes No

If yes, has the College applied for availing the autonomous status?

Yes No

9. Is the college recognized

- a. by UGC as a College with Potential for Excellence (CPE)?

Yes No

If yes, date of recognition: (dd/mm/yyyy)

- b. for its performance by any other governmental agency?

Yes No

If yes, Name of the agency: **National Board of Accreditation** and
date of recognition: (1) 31/07/2016 (dd/mm/yyyy)

(2) 30/06/2018 (dd/mm/yyyy)

If yes, Name of the agency **Best College Award by Savitribai Phule Pune University** and date of recognition: 18/04/2012 (dd/mm/yyyy)

10. Location of the campus and area in sq.mts:

| | |
|----------------------------------|---|
| Location * | Urban, Sector No. 26, Pradhikaran, Nigdi, Pune-411044 |
| Campus area in sq. mts. | 50000 Sq. Mts. |
| Built up area in sq. mts. | 28246 Sq. Mts. |

(* Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)

11. Facilities available on the campus (Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

- **Auditorium/seminar complex with infrastructural facilities:** ✓
PCCoE has seminar room with a seating capacity of about 300 people. It is equipped with audio-visual facilities along with recording facilities and an excellent sound system. It also features a two projector screens, white board and a podium.

- **Sports facilities**
 - play ground : ✓
 - swimming pool : NA
 - gymnasium : ✓

- **Hostel**
 - Boys' hostel
 - i. Number of hostels : 02
 - ii. Number of inmates : 289
 - iii. Facilities (mention available facilities): Mess, Medical Facility, Gymnasium, Cafeteria
 - Girls' hostel
 - i. Number of hostels : 01
 - ii. Number of inmates : 250
 - iii. Facilities (mention available facilities) : Mess, Medical Facility, Gymnasium
 - Working women's hostel : NA
 - i. Number of inmates

ii. Facilities (mention available facilities)

- Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise) : NA
- Cafeteria : 01
- Health centre : 01

First aid, Inpatient, Outpatient, Emergency care facility, Ambulance.....

| | | | | |
|------------------|-----------|--------------------------|-----------|-------------------------------------|
| Qualified doctor | Full time | <input type="checkbox"/> | Part time | <input checked="" type="checkbox"/> |
| Qualified Nurse | Full time | <input type="checkbox"/> | Part time | <input type="checkbox"/> |

- Facilities like banking, post office, book shops: **Yes**
- Transport facilities to cater to the needs of students and staff: **Not required as Railway Station and Bus Station are very near to College.**
- Animal house: NA
- Biological waste disposal: NA
- Generator or other facility for management/regulation of electricity and voltage: **Yes, Two D.G Sets of 125 KVA**
- Solid waste management facility: Yes
- Waste water management: Yes
- Water harvesting: Yes

12. Details of programmes offered by the college (Give data for current academic year)

| Sr. No. | Programme Level | Name of the Programme/ Course | Duration | Entry Qualification | Medium of instruction | Sanctioned/ approved Student strength | No. of students admitted |
|---------|-----------------|---------------------------------|----------|------------------------|-----------------------|---------------------------------------|--------------------------|
| 1 | Under-Graduate | Mechanical Engg. (First Shift) | 4 years | 12 th & JEE | English | 120 | 127 |
| 2 | | Mechanical Engg. (Second Shift) | 4 years | 12 th & JEE | English | 60 | 60 |
| 3 | | Computer Engg. (First Shift) | 4 years | 12 th & JEE | English | 120 | 127 |

| | | | | | | | |
|----|---------------|--|---------|------------------------|---------|-----|-----|
| 4 | | Computer Engg. (Second Shift) | 4 years | 12 th & JEE | English | 60 | 60 |
| 5 | | Electronics & Telecommunica tion Engg. (First Shift) | 4 years | 12 th & JEE | English | 120 | 128 |
| 6 | | Electronics & Telecommunica tion Engg. (Second Shift) | 4 years | 12 th & JEE | English | 60 | 60 |
| 7 | | Information Technology (First Shift) | 4 years | 12 th & JEE | English | 60 | 64 |
| 8 | | Civil Engg. (First Shift) | 4 years | 12 th & JEE | English | 60 | 64 |
| 9 | Post-Graduate | MCA (First Shift) | 3 years | Graduate CET | English | 60 | 56 |
| 10 | | MBA (First Shift) | 2 years | Graduate CET | English | 60 | 60 |
| 11 | | ME – Computer Engg. (First Shift) | 2 years | Graduate GATE | English | 18 | 17 |
| 12 | | ME – Mechanical Engg. Design (First Shift) | 2 years | Graduate GATE | English | 18 | 18 |
| 13 | | ME - Heat Power Engg. (Second Shift) | 2 years | Graduate GATE | English | 18 | 15 |
| 14 | | ME – VLSI & Embedded System (Second Shift) | 2 years | Graduate GATE | English | 18 | 18 |
| 15 | | ME – Information Technology (First Shift) | 2 years | Graduate | English | 24 | 17 |

13. Does the college offer self-financed Programmes?

Yes No

If yes, how many?

14. New programmes introduced in the college during the last five years if any?

Yes No Number

15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the departments offering common compulsory subjects for all the programmes like English, regional languages etc.)

| Faculty | Departments | UG | PG | Research |
|-------------|---|----|----|----------|
| Engineering | Mechanical Engineering | √ | √ | NA |
| | Electronics & Telecommunication Engineering | √ | √ | |
| | Computer Engineering | √ | √ | |
| | Information Technology | √ | √ | |
| | Civil Engineering | √ | | |
| Management | Master of Business of Management | - | √ | |
| | Master of Computer Application | - | √ | |

16. Number of Programmes offered under (Programme means a degree course like BA, BSc, MA, M.Com...)

- a. annual system
- b. Semester system
- c. Tri-semester system

5 UG Engg., 5 PG Engg., 1 MBA & 1 MCA

17. Number of Programmes with

- a) Choice based credit system
- b) Inter/Multidisciplinary Approach
- c) Any Other

18. Does the college offer UG and/or PG programmes in Teacher Education?

Yes No

19. Does the college offer UG or PG programme in Physical Education?

Yes No

20. Number of teaching and non-teaching positions in the Institution

| Positions | Teaching faculty | | | | | | Non-teaching staff | | Technical staff | |
|---|------------------|----|---------------------|----|---------------------|----|--------------------|----|-----------------|----|
| | Professor | | Associate Professor | | Assistant Professor | | *M | *F | *M | *F |
| | *M | *F | *M | *F | *M | *F | | | | |
| Sanctioned by the UGC / University / State Government Recruit | 27 | | 49 | | 136 | | 87 | | 71 | |
| Sanctioned by the Management/ society or other authorized bodies Recruited | 14 | 04 | 11 | 08 | 74 | 95 | 68 | 19 | 44 | 27 |
| <i>Total</i> | 18 | | 19 | | 169 | | 87 | | 71 | |
| <i>Yet to recruit</i> | 9 | | 30 | | -33 | | - | - | - | - |

*M-Male *F-Female

21. Qualifications of the teaching staff:

| Highest qualification | Professor | | Associate Professor | | Assistant Professor | | Total |
|------------------------------------|-----------|--------|---------------------|--------|---------------------|--------|-------|
| | Male | Female | Male | Female | Male | Female | |
| Permanent teachers | | | | | | | |
| D.Sc./D.Litt. | | | | | | | |
| Ph.D. | 13 | 04 | 01 | 04 | 02 | 03 | 27 |
| M.Phil. | | | | | 01 | 01 | 02 |
| PG | 01 | -- | 10 | 04 | 61 | 81 | 157 |
| Temporary teachers | | | | | | | |
| Ph.D. | -- | -- | -- | -- | -- | 01 | 01 |
| M.Phil. | -- | -- | -- | -- | -- | -- | -- |
| PG | -- | -- | -- | -- | 09 | 10 | 19 |
| Part-time teachers/Adjunct Faculty | | | | | | | |
| Ph.D. | -- | -- | -- | -- | -- | -- | -- |
| M.Phil. | -- | -- | -- | -- | -- | -- | -- |
| PG | -- | -- | -- | -- | 10 | 01 | 11 |

22. Number of Visiting Faculty /Guest Faculty engaged with the College: 02

23. Furnish the number of the students admitted to the college during the last four academic years.

| Categories | Year 1 2015-16 | | Year 2 2014-15 | | Year 3 2013-14 | | Year 4 2012-13 | |
|------------|-------------------|--------|-------------------|--------|-------------------|--------|-------------------|--------|
| | Male | Female | Male | Female | Male | Female | Male | Female |
| SC | 183 | 135 | 198 | 151 | 246 | 170 | 146 | 109 |
| ST | 53 | 21 | 41 | 20 | 94 | 85 | 23 | 11 |
| OBC | 378 | 241 | 343 | 219 | 227 | 117 | 338 | 183 |
| General | 1390 | 883 | 1352 | 826 | 1245 | 737 | 1052 | 605 |
| Others | 239 | 175 | 178 | 134 | 172 | 104 | 162 | 92 |

24. Details on students enrollment in the college during the current academic year (2016-17):

| Type of students | UG | PG | M. Phil. | Ph.D. | Total |
|---|------|-----|----------|-------|-------|
| Students from the same state where the college is located | 3056 | 401 | -- | -- | 3457 |
| Students from other states of India | 82 | 21 | -- | -- | 103 |
| NRI students | 02 | -- | -- | -- | 02 |
| Foreign students | -- | -- | -- | -- | |
| Total | 3140 | 422 | -- | -- | 3562 |

25. Dropout rate in UG and PG (average of the last two batches)

UG 2014-2015=19, 2015-16=09

PG 2014-15=05, 2015-16=05

26. Unit Cost of Education

(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)

a) Including the Salary Component

Rs. 64, 309/-

b) Excluding the Salary Component

Rs. 10, 418/-

27. Does the college offer any programme/s in distance education mode (DEP)?

Yes

No

28. Provide Teacher-student ratio for each of the programme / course offered

| Programme | STR |
|------------------|------------|
| UG Engg. | 1:14.04 |
| PG Engg. | 1: 12 |
| MCA | 1:15 |
| MBA | 1:15 |

29. Is the college applying for

Accreditation Cycle 1 Cycle 2 Cycle 3 Cycle 4
Re-Assessment

30. Date of accreditation* (applicable for Cycle 2, Cycle 3, Cycle 4 and re-assessment only):

Cycle 1: NA (dd/mm/yyyy) Accreditation Outcome/Result: NA

31. Number of working days during the last academic year.

281

32. Number of teaching days during the last academic year

(Teaching days means days on which lectures were engaged excluding the examination days)

84 X 2 = 168

33. Date of establishment of Internal Quality Assurance Cell (IQAC): **21/11/2016**

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

: NA

35. Any other relevant data (not covered above) the college would like to include. (Do not include explanatory/descriptive information)

- The institute is ISO 9001-2008 certified and migrating towards ISO 9001-2015.
- QCFI student cell since 2014.



CRITERION I: CURRICULAR ASPECTS

CRITERION I: CURRICULAR ASPECTS

1.1 Curriculum Planning and Implementation

1.1.1 State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

Vision

To Serve the Society, Industry and all the Stakeholders through the Value Added Quality Education.

Mission

To serve the needs of society at large by establishing State-of-the-Art Engineering, Management and Research Institute and impart attitude, knowledge and skills with quality education to develop individuals and teams with ability to think and analyze right values and self-reliance.

Quality Policy

We at PCCOE are committed to impart Value Added Quality Education to satisfy the needs and expectations of the Students and Stakeholders.

We shall strive for academic excellence, professional competence and social commitment in fine blend with innovation and research.

We shall achieve this by establishing and strengthening state-of-the-art Engineering and Management Institute through continual improvement in effective implementation of Quality Management System.

Quality Objectives of The Institute:

- 1) To Improve Academic Performance Index.
- 2) To Improve Research and Innovation Index.
- 3) To Improve Professional Competency of the Students and ensure social contribution.
- 4) To enhance students placements, training and entrepreneurship.

Institute disseminates its vision, mission and objectives to the faculty, staff, students and other stakeholders through various modes.

- 1) Institute website : <http://www.pccoepune.com>
- 2) Institute Brochure/Prospectus and leaflets.
- 3) Institute Bulletin Newswire.
- 4) Boards displayed at strategic locations within the campus.
- 5) Induction Programs, Student orientation programs and addresses by the Principal and HODs.

- 6) Presentations at appropriate places such as outside delegations, Parents meet, Alumni meet, etc.

1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).

Institute is permanently affiliated to Savitribai Phule Pune University and follows the curriculum prescribed by the University for various programmes.

Institute is driven by the disciplined academic culture which is established to address the learning needs of students. Institute follows the philosophy of **Plan-Do-Check-Act** while implementing the teaching-learning process. This process ensures systematic planning, intended execution, scrupulous monitoring and necessary improvements.

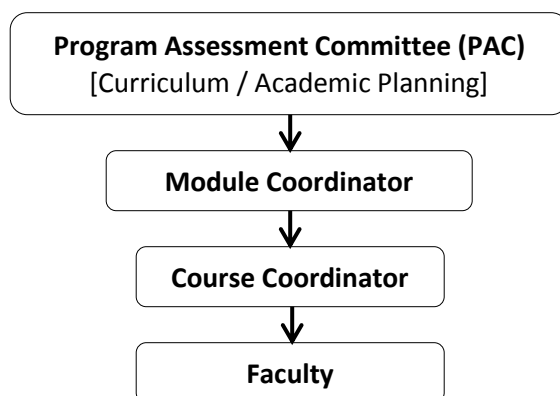
Our theme and practice of “**Value Based Quality Education**” shape engineers with competency and with strong sense of societal values.

Academic Planning for Implementing the Curriculum:

Institute and Department performs systematic planning for the implementation of curriculum which includes-

- a) **Resource Planning:** Infrastructure, Books, faculty and staff etc.
- b) **Schedules:** Academic Calendar, Event Calendar, monitoring activities, Meetings etc.
- c) **Content Planning:** Teaching Plan, Content Delivery Methods, Question Paper, Course Presentation, Learning Resources etc.
- d) **Events and Activites:** Curricular, Co-curricular, Extra-curricular including Games and Sports.

Institute and Department have designed hierarchical structure of faculty to perform and review the planning of curriculum content for qualitative execution of teaching-learning process.



- ✓ Subject allocation for the next semester is done before end of the current semester by considering the competencies and interest of the faculty.
- ✓ Faculty prepares the Course File, Teaching Plan, Laboratory Assignments Plan

and relevant upgradation of the lab.

- ✓ Each course coordinator in consultation with respective course faculty defines and reviews the Course Outcome of the course and ensures uniformity among different divisions.
- ✓ Each module coordinator ensures and review course outcomes defined for different courses in respective module and monitors assessment and attainment of the course outcome.
- ✓ Program Assessment Committee defines and review assessment, attainment of program outcomes through direct and indirect assessment methods and also ensures alignment of course outcomes of different course modules with program outcomes.
- ✓ Before the start of the semester Laboratory setup is made ready, calibration and maintenance of equipments is done. If required procurement of consumables, equipments and instruments is done.

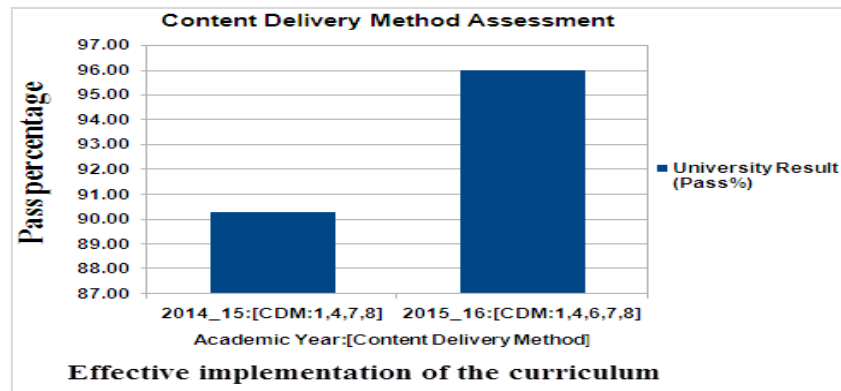
Deploy Action Plan for Effective Implementation of the Curriculum:

The plan prepared by course faculty is deployed through execution of teaching-learning process. Faculty deploys his content through various planed Course delivery methods and activities which include Classroom Teaching, Laboratory Demonstrations, Project Based Learning, Seminars, Guest lectures, Industrial visits etc. Faculty adheres to schedules generated in teaching plans. Following things are ensured.

- ✓ Faculty disseminates the course outcomes and implements assessment tools to ensure attainment of course outcomes.
- ✓ Appropriate Content Delivery Methods are used for the effective delivery of courses like Lecture with interaction (CDM-1), Quiz (CDM-2), Group Discussion (CDM-3), Demonstration (CDM-4), Case study (CDM-5), Mini projects/Competition (CDM-6), Presentation(CDM-7), Industrial visit(CDM-8), Asynchronous Discussion (CDM-9), Tutorial (CDM-10) etc. to meet the Programme Outcomes.
- ✓ The Departmental Meetings are held periodically to discuss the implementation of the course curriculum.

Case Study-1: The effective implementation of the curriculum helps in enhancing the academic result of the students and can be demonstrated from following example.

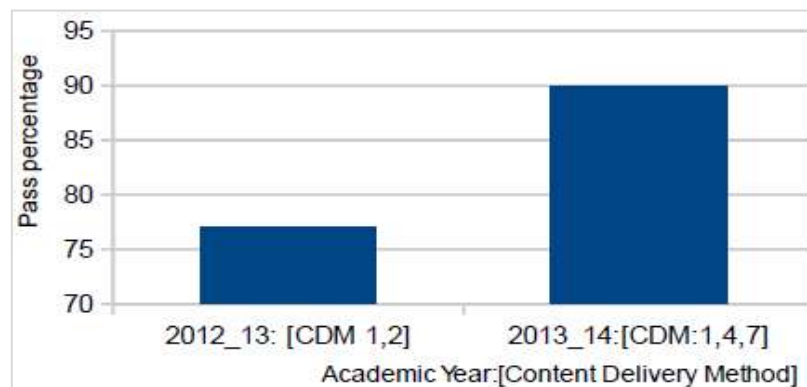
In the subject Applied Thermodynamics (202050) of SE Mechanical



Engineering, because of change in teaching methodology there was notable improvement in Qualitative as well as Quantitative result in the year 2015-16 as compared to results of 2014-15. The results increased from 90.28% to 96% because of introduction of CDM6. Mini projects/ Competition in the year 2015-16 compared to year 2014-15, where CDM1- Lecture with interaction, CDM4-Demonstration (through Models, chart, videos etc.), CDM7-Presentation, CDM8-Industrial visit, were used in the year 2014-15.

Case Study-2:

In the subject Network Theory (204183) of SE E&TC Engineering because of change in teaching methodology there was notable improvement in qualitative as well as quantitative result in the year 2013-14 as compared to results of 2012-13. The result is increased from 77% to 90% because of introduction of CDM4 (Demonstration) and CDM7 (presentation) in the year 2013-14 compared to year 2012-13 where CDM1 (Lecture with interaction) and CDM2 (Quiz) were adopted. Following figure shows graphically that how change in CDM helps in improvement of results and hence the attainment of PO.



1.1.3 What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?

University Level Support

- ✓ University Sponsors the organization of Subject Orientation workshops at various institutes on subjects listed in the curriculum. In these workshops teachers are introduced to new curriculum contents (if any), and discussion on issues and concerns in deployment of contents of subject is carried out and these issues are addressed. Faculty gets the exposure to the Expertise, tools, concepts and methodologies.
- ✓ Partial financial support is given to Institutes for organizing workshops for effective delivery of curriculum.

Institute Level Support

- ✓ The institute provides all infrastructures, teaching aids, computer labs, LCD projectors etc. in order to ensure the effective implementation and to adopt the best teaching practices.
- ✓ Well equipped Library with Reference Books, National and International Journals (both Hard and E-copies) are available for the faculty members to keep track on the latest happenings and contemporary issues.
- ✓ Institute has the ERP system which is used to monitor effective planning and record keeping.
- ✓ High speed Internet connectivity and Wi-Fi facility.
- ✓ Interaction with Outside world to understand curriculum and establish academic collaborations with industries and national organizations.
- ✓ Self-learning facility is available with LRDC (Learning Resource & Development Center). Software- DARPAN is used to avail this facility within campus.
- ✓ Deputing Faculty for attending the Workshops, Seminars and Conferences, Subject Orientation Workshops, FDP's and Syllabus Revision Workshops or Meetings.
- ✓ Facilitate the faculty members for up gradation of qualification.
- ✓ Expert lectures are organized for curriculum contents and teaching-learning methods etc.

1.1.4 Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other Statutory agency.

Institute initiates many mechanisms contributing for effective curriculum delivery as follows-

- ✓ Syllabus Review and Subject Orientation Workshops are organized.
- ✓ Support for Assessment Work of University Examination through CAP Centre.
- ✓ Organize PG Conferences sponsored by SPPU.
- ✓ Students are encouraged to participate in “Avishkar”, a project competition organized by SPPU.

Contribution made by the institute for effective curriculum delivery:

- ✓ For the effective delivery of curriculum different instructive tools and methodologies are used e.g. use of LCD, PPTs, Case Study analysis, Mini Project, Group Discussion, Role Play and discussion on contemporary issues to make the sessions more and more interactive.
- ✓ Guest faculty/Industry experts are invited to deliver the lectures, seminars and workshops for students to keep them updated about the industry trends.
- ✓ Industrial visits are arranged for the students with the objective to get practical exposure.
- ✓ Project based learning approach is followed to nurture innovativeness among students.
- ✓ Extra practical and theory sessions for weak learners and directly admitted second year students.
- ✓ Establishment of academic support units such as Departmental library, Central Library, Computer Center, Language Lab, Innovation Lab and Reprography Center etc.

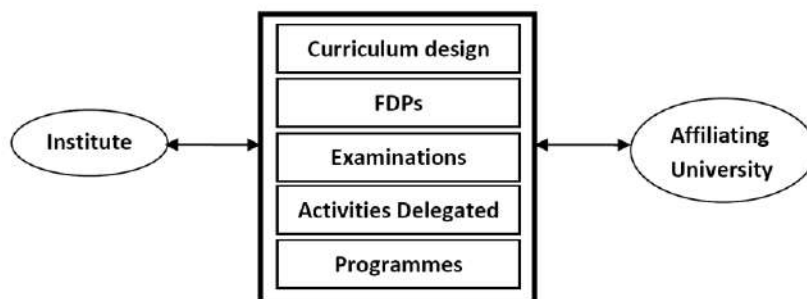
The curriculum transaction is carried out by well-defined ISO processes and supported by ERP system

- ✓ ERP coordinator uploads allocation of subjects and subsequently all the subject faculty feed the Teaching plans, Attendance, and Unit Test marks of the students regularly on ERP. Thus the students and faculty access various academic reports from ERP web portal from time to time.
- ✓ Parents are communicated about their regularity and performance after each unit tests through SMS and on Parent Meets.

1.1.5 How does the institution network and interact with beneficiaries such as industry, research bodies and the university in effective operationalization of the curriculum?

The institute interaction with University

Institute has representation in university in terms of Members in BoS, Members in Academic Council and many Senior Faculty as Chairman of the Subjects, PhD Guides at University level.

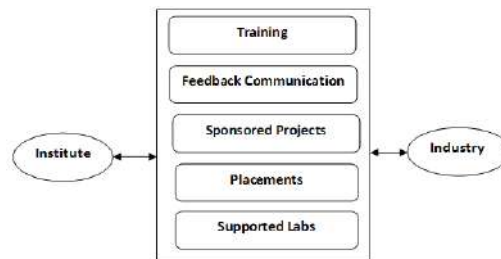


University Interface

The institute interaction with Industry

- ✓ The Institute has collaboration with industries to design and develop the industry oriented curriculum such as Open Elective courses and run the same after approval from university.
- ✓ The institute is recognized as part of **e-Yantra** lab setup initiative (**eLSI**) at national level. The Lab is established in association with IIT Bombay and sponsored by Ministry of Human Resource Development for enhancing the research culture in Robotics where students will be able to develop a prototype with the kit available in lab and will be able to participate in various robotic competitions.
- ✓ Departments have Department Advisory Board (DAB) represented by a few faculty members from the department, eminent academicians from reputed institutes, industry representative, employer, alumni and parents. This committee in general decides broad areas to be addressed like quality education, effective teaching learning process, research, higher study, placement and socially committed ethical behavior.

Industry Institution Interaction Cell: Industry Institution Interaction Cell of the Institute interacts with industry for creating network for improvising the delivery of curriculum and providing placement opportunities to the students

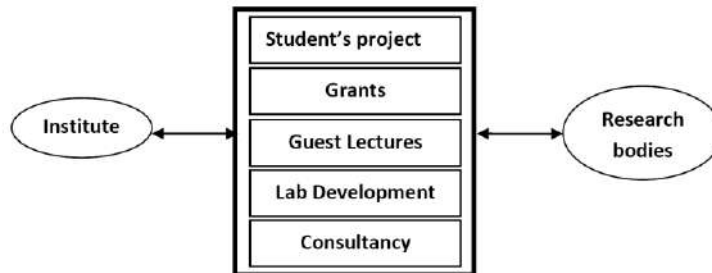


Industry Interface

- ✓ Having Liaison and MoUs with industries to impart training, arranging add on courses. Final year students are sent for project work / dissertation in the industry.
- ✓ Organize Training Courses and workshops regularly through Professional bodies like CSI, ACM, QCFI etc. in different areas such as CAD/CAM/CAE, Robotics, Advanced Programming Languages, VLSI, Embedded Systems etc.
- ✓ Every year the National conferences are organized. The Institute Organized 8th National Conference –Industry Institute Interaction in association with NASSOCM, SPPU, BOAT (Ministry of HRD, Govt. of India), MIDC and SME Chamber of India. More than 2,700 Participants (Students, Faculties, Industry Professionals & TPOs and Deans of Universities) from across the country attended this conference to bridge the gap between Industry & Institutes. In this conference, 35 MoUs were signed with industries and five parallel sessions were running to have the interaction between industry representatives and faculties.

- ✓ Adjunct faculty from industry are appointed to make the students aware of the current trends in different sectors.

Research & Development cell: Research & Development Cell of the Institute interact with the research organizations/institute of repute on specific areas of research such as Noise Vibrations and Harshness, CFD, Mechatronics, Composite Material Design and Testing.



Research Organization/Laboratories Interface

- ✓ For Steam Engineering and Energy Conservation Management institute interact with Forbes Marshall, Pune for developing curriculum of that course
- ✓ For calibration of measuring instruments institute interact with Baker Gauges India Pvt. Ltd.
- ✓ Institute interacts with TIFAC, New Delhi for solving problems of MSME in Pune region in the specific curricular projects.
- ✓ Many of the Faculty are involved in research activity through Innovation Projects funded by BCUD-SPPU and undertake other research projects on an individual level.
- ✓ Many of the students are undergoing Research Projects at *CREOSPAN*, NCL, Atreya Solutions and Industries, Persistent, C-DAC, DRDO, TATA Motors, Cummins Ltd., SKF etc.

1.1.6 What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.

Since the Institute is affiliated to SPPU, Pune and is bound to follow the syllabus designed by the University. The syllabus is framed or restructured periodically for various disciplines. For this purpose, University arranges workshops at different colleges. Subsequently, the syllabus is finalized at University Board of Studies.

The Institute encourages faculty to participate in the workshops related to the curriculum design and also conduct workshops on behalf of the university.

Contribution through feedback: Periodic Feedback from the Students, Parents, Alumni and industry experts are taken on curriculum and their comments, suggestions and peer observations are analyzed at department level with concerned faculty and subsequently faculty share their expertise in the syllabus revision meetings

1.1.7 Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.

No,

However, Institute offers various add-on courses to students for bridging the gap between curriculum and industry requirement. Faculty members of the Institute contribute to the design, development, planning and assessment of curriculum for the program.

1.1.8 How does institution analyze / ensure that the stated objectives of curriculum are achieved in the course of implementation?

The institute follows an 'outcome based approach' in the teaching-learning evaluation processes. Every programme frames a set of about 12 Programme Outcomes based on the graduate attributes concerning that specific programme. For every course the Course Outcomes have been defined.

Further, for enabling an easy direct assessment of attainment of these course outcomes, the internal examination question paper patterns and assignments for each course are suitably framed and marks are awarded.

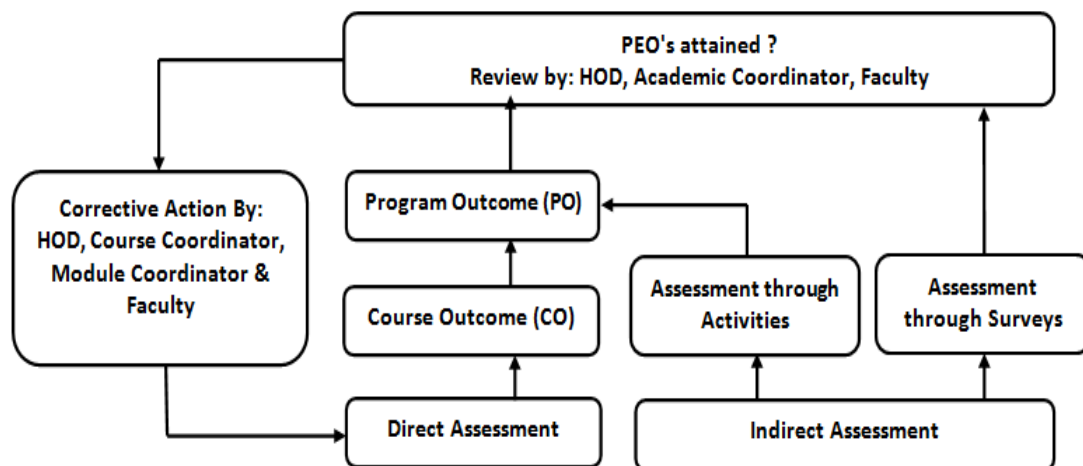


Fig.: Curriculum Objective achievement through PEO attainment

Each course outcome is mapped with the programme outcome as strongly correlated if the course outcome attainment weightage is more than or equal to 60% and moderately correlated if the course outcome attainment weightage is less than 60%. In

addition to the direct assessment, indirect assessment methods are also adopted.

The institution has formed communication channels with all the stakeholders to ensure that objectives of the curriculum are achieved in the course of implementation.

The methods followed to ensure the achievements of stated objectives are:

- ✓ Institute analyzes the achievements of the objectives of curriculum through - Progressive assessment, continuous evaluation process, Class room and Laboratory interaction.
- ✓ Feedback from students
- ✓ Evaluation of students performance for Term work.
- ✓ Academic Review Meetings (ARM) are held periodically to monitor the syllabus coverage and ensure the outcomes achieved.
- ✓ Feedback from stakeholders like Industry, Examiners, and Employers is taken and analyzed for improvement.
- ✓ Management Review Meetings (MRM), LMC meetings for performance evaluation and improvement actions.
- ✓ Actions on students feedback and suggestion are taken at department and institute level.

1.2 Academic Flexibility

1.2.1 Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.

Institute has a vision to prepare engineers to respond to the Society, Industry and all the Stakeholders through the **value added quality education**. Value Added courses (programs) are arranged to bridge the knowledge gap between academia and industry and to strengthen the regular academic programmes prescribed by the University.

Institute offers various add-on courses to improve the skills of the students. Many courses are offered to meet the goals and objectives of the Institute.

- ✓ Advanced and customized industry related courses on emerging subjects in association with the industry are provided to the students in the form of open electives.
- ✓ Apart from the academic curriculum of university, departments/institute also offers various add-on courses which helps in development of employability skill of the student. Institute has collaboration with companies like Infosys, IBM, KPIT, Zensar, Oracle University, SCOUT Technologies, Web Tek Labs Pvt. Ltd., APART Education Ltd. and MoUs with many companies.

1.2.2 Does the institution offer programmes that facilitate twinning /dual degree? If 'yes', give details.

No, the institute does not provide any dual degree since there is no provision for offering twinning/dual degree from SPPU.

1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability. Issues may cover the following and beyond:

- *Range of Core / Elective options offered by the University and those opted by the college*
- *Choice Based Credit System and range of subject options*
- *Courses offered in modular form*
- *Credit transfer and accumulation facility*
- *Lateral & vertical mobility within & across programmes & courses*
- *Enrichment courses*

- a) **Range of Core / Elective options offered by the University and those opted by the college:** Curriculum offers the selection of elective courses by the students during the program. The elective courses are designed to cater the needs of industry and further studies. The system of electives helps students to strengthen their knowledge and skills for employment or higher studies. Under each discipline the curriculum consist of 85-90% of core subjects and 10-15% of electives for UG and 67-75% of core and 25-33% of electives for PG courses. University curriculum has a provision of 2 electives in the 7th Semester and 2 electives in the 8th Semester wherein one is open elective which can be interdisciplinary for the undergraduate students.
- b) **Choice Based Credit System and range of subject options:** Since the institute is affiliated to the University, the credit based system is implemented at UG and PG Courses. For UG level it has been introduced at First Year and Second Year which will be gradually progressed to further years.
- c) **Courses offered in modular form:** Three Elective Courses in ME (Mechanical), ME (Computer) and ME (E&TC) are Modular Based
- d) **Credit transfer and accumulation facility:** When the students from one engineering college of the university are transferred to a new college under same university, the credits that they have accumulated in the previous college are transferred to the new college under the purview of the university regulations.
- e) **Lateral & vertical mobility within & across programmes & courses :**
Lateral mobility: Direct admission of the diploma students in second year of engineering programme as per Directorate of Technical Education, Maharashtra State norms.
Vertical mobility: Since first year engineering is common to all the programmes, students can opt for a change in admitted programme at second year only, provided there is a vacancy available in the desired programme.

- f) **Enrichment courses:** The university also offers open elective subject, which is designed by the department in consultation with industry experts based on current need and then approved by university board of studies and offered to the students.

Progression to Higher Studies: Progression of the students towards higher studies is supported through curriculum by elective subjects. Some sample subjects in programmes are given below

| Name of the course | Scope of Higher Studies |
|------------------------------------|---|
| Network Analysis and Design. | This course is prerequisite for Master's degree programs in the area Electronics and Telecommunication Engineering |
| Operations Research | This subject is foundation course for Master's in operations research degree. With a strong emphasis on mathematics and stochastic theory, this interdisciplinary field overlaps mathematics with other disciplines such as industrial design and operations management. |
| Design and Analysis of Algorithms. | This course offers a comprehensive foundation in the science of programming. It gives the student a strong basis for developing the computer applications of today and tomorrow and for conducting innovative research and promoting development. |
| Software Project Management. | Master's degree candidates in this area explore special topics in software project management, including risk management, cost estimation, and quality management. |
| Microwave Engineering. | This course is foundation course for Master's degree in RF and Microwave Engineering. This program provides training for engineers to become innovators in the rapidly expanding fields of RF, microwave, millimeter wave engineering. |
| Digital Signal Processing. | This course is foundation course for Master's degree in Signal Processing. This degree program focuses on theories, methods and algorithms for advanced signal processing applied to a variety of application domains, such as wireless communication, speech recognition, hearing aids, positioning, audio and video, and health care. |

Also, Institute has Higher Studies Cell which encourage students to go for higher studies and provide adequate references in the form of books, CD's, for preparation of competitive entrance examination such as GATE, GRE, CAT, GMAT, TOEFL etc

Improved Potential For Employability: Industry expertises are included in curriculum to support employability in different verticals. Some sample subjects in programmes are given below

- ✓ Database

- ✓ Programming Languages
- ✓ Android
- ✓ CATIA
- ✓ Embedded System
- ✓ Wireless Communication.

Also Department level Professional Development Cell and Communication and Personality Development Cell organize various training programmes for learning beyond syllabus like IBM Training Programmes, Big Data Hadoop, Cloud Computing, Microsoft Certifications, Aptitude and Soft Skill Training.

1.2.4 Does the institution offer self-financed programmes? If 'yes', list them and indicate how they differ from other programmes, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.

Yes, Institute is permanently affiliated to SPPU and is unaided college, thus all the programmes are self-financed programmes. Presently Institute is having five Undergraduate Courses (UG) and Seven Postgraduate Courses (PG) programs

Under Graduate Courses

- ✓ B.E. Computer Engineering
- ✓ B.E. Electronics and Telecommunication Engineering
- ✓ B.E. Mechanical Engineering
- ✓ B.E. Information Technology
- ✓ B.E. Civil Engineering

Post Graduate Courses

- ✓ M.E. Computer Engineering
- ✓ M.E. Design Engineering
- ✓ M.E. Heat Power Engineering
- ✓ M.E. Information Technology
- ✓ M.E. VLSI And Embedded Systems
- ✓ M.B.A. Master of Business Administration (2 years)
- ✓ M.C.A. Master of Computer Applications (3 years)

Admission

Admission to all UG and PG Programs are conducted according to DTE rules and regulations, available at www.dte.org.in.

Curriculum

BoS of specific programme under SPPU designed the curriculum according to university norms. (Details available at www.unipune.ac.in)

Fee structure

Institution charge the tuition fee as prescribed by the *Shikshan Shulka Samiti, Maharashtra State* and *SPPU rules* and is subject to revision.(Details are available on www.sssamiti.org).

Teacher qualification and salary

Institute appoints well qualified, experienced faculty and pay the salary as per UGC and AICTE norms.(www.ugc.nic.in and www.aicte-india.org)

1.2.5 Does the college provide additional skill oriented programmes, relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries.

The institute provides additional skill oriented programs regularly. Based on the level of technical skill to be imparted, there are short term courses on for specific branch of varying duration. Undoubtedly these programs are the way to get career opportunities. Few of them are as below-

- ✓ Institute also started providing training to unemployed youth to provide opportunities for employment and meet needs of employment market. This training program is a part of AICTE scheme PMKVY (Pradhan Mantri Kaushal Vikas Yojana) for technical institutes. Three training programs are currently run as follows:
 1. CNC operator – VMC – **(25 Seats)**
 2. Field Technician – Computer and Peripherals- **(25 Seats)**
 3. Masson Concrete – **(25 Seats)**

These training programs are offered free of cost with the grants from AICTE

- ✓ Institute provides specific skills as the expectations of industries and stakeholders. These trainings help students to develop the skill sets in areas like CFD, multi-body dynamics, GD&T, SIEMENS, NX, Product Innovation Multidisciplinary education through **3dPLM** Product Innovation Lab.

These trainings in respective skills help the students for getting placed in reputed Automobile industries and their ancillaries to a great extent.

1.2.6 Does the University provide for the flexibility of combining the conventional face-to-face and Distance Mode of Education for students to choose the courses/combination of their choice” If 'yes', how does the institution take advantage of such provision for the benefit of students?

No, university does not provide the flexibility of combining conventional mode of education and distance education.

1.3 Curriculum Enrichment

1.3.1 Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programmes and Institution's goals and objectives are integrated?

Institute consistently pursues efforts to achieve institution objectives through the curriculum and enrichment courses. The inputs from the stakeholders and the data

collected are analyzed and compared with the existing curriculum. The gap in the existing curriculum is identified and summarized as key expectations.

In addition, to support the curriculum Aptitude Courses, Technical Add on Courses, MOCK Interviews by Subject Experts are organized to fill the curriculum gap. The efforts made by the institution to supplement the university curriculum to realize the goals and Objectives of the institution are:

- ✓ Periodic industrial visits and tours are arranged for the enrichment of student's practical knowledge.
- ✓ Expert lectures from industry, academia and research organization are arranged to bridge the gap between industry expectations and academic provisions.
- ✓ Various topics of content beyond syllabus are being taught to students in order to have additional knowledge related to the respective subjects.
- ✓ Students are encouraged to attend the internship training programs offered by various industries during summer and winter vacations (industrial training/ internship).
- ✓ Institute organizes various Workshops/Seminars, Symposium, Techfests, Entrepreneur Development Program, Career Guidance and Value addition programs to equip the students and faculty with the latest developments in the core areas of every programme.
- ✓ Institute is associated with the professional societies like ISTE, IETE, CSI, ACM, IEEE and many more student chapters where students get a platform to interact on assorted ideas leading to development of publications and projects.

Students get opportunity to participate in conferences like PG Conferences and project competitions (Avishkar) organized by SPPU and other Institutes.

1.3.2 What are the efforts made by the institution to enrich and organize the curriculum to enhance the experiences of the students so as to cope with the needs of the dynamic employment market?

Institution strives to enhance the experiences of the students in assorted ways by organizing different activities in the curriculum, the cognitive and affective domain of the students have been enriched which helps further the students to sustain in the dynamic employment market.

Following Efforts are made to cope up the current needs of industry:

- a) Organize Training Programs and workshop on current trends of the industry like CATIA, Android, Big Data and Hadoop, Cloud Computing and Advanced Programming Languages.
- b) Advanced and customized industry related courses on emerging subjects in association with the industry are provided to the students
- c) Organize Project Competition, Technical events and Poster paper Presentation where their confidence and interaction/presentation skills are enhanced.

- d) Encourage students to attend summer and winter Industrial Training Program, and participate in Conferences, Seminars, Workshops and many other functional activities
- e) Industrial visits to enrich their practical knowledge and skills.

1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?

Integration of cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc. into the curriculum (in the form of Audit Courses) has been catered to some extent in the existing curriculum of various degree program by SPPU.

| Dept. | Name of the course (Audit/Others) |
|--------------|--|
| Computer | Road Safety ,Environmental Studies, Smart city, Foreign language |
| MCA | Cyber security, Human Rights |
| MBA | Cyber security, Human Rights,Managing for Sustainability |
| Mechanical | Value Education |
| IT | Smart city |
| E&Tc | Road Safety & Traffic Management , Cyber Crime & Law |
| Civil | Awareness to Civil Engineering Practices, Road safety management |

1.3.4 What are the various value-added courses / enrichment programmes offered to ensure holistic development of students?

- *moral and ethical values*
- *employable and life skills*
- *better career options*
- *community orientation*

The various employable and life skill courses are offered and are elaborated in section 1.2.1 and 1.2.5 respectively.

Intellectual, Emotional, Moral and Social Growth is very important for holistic development of students. Over and above value-added courses / enrichment programmes offered by Institute to ensure holistic development of students are as follows:

| Development of student | Value added courses / enrichment programs | Examples |
|-------------------------------|--|--|
| Physical | Yoga and Sports Exercise | Seminar on “Benefits of Yoga & Secrets of Pranayam”. Students participated in many |

| | | |
|------------------------------------|--|--|
| | | sports activities and won prizes at inter-collegiate , inter-University and national level competitions |
| Mental | Stress management, Concentration techniques. | Seminar on Stress Management and Time Mangement PRERNA - Personality Development for Girls which helps them to learn self defense, stress management. |
| Emotional | Counseling, Creativity, Mentorship | Dr. Nagarkar, Student Councillor |
| Spiritual | Value education, events, Art of living courses. | YES+ courses (Art of living) 24 Hrs. program For All FE students |
| Social / Community Oriented | NSS, Blood Donation Camps. | Plantation, Cleanliness, Swatchh Bharat Upkeepment Drives, Waste Management, Rain Water Harvesting, Environment Protection in collaboration with NGOs such as Anandwan, Melghat, Ralegan – siddhi |
| Employable And Life Skills | Latest technology courses, Entrepreneurial Motivation seminars and guidance for higher education through EDP cell. | Short Term Training Program on advanced programming languages (Java,C#,.Net, PHP , Android Application development, and Big Data Analytics) Training on CATIA V-5 (2 Weeks), Ansys-CFD (80 Hrs), ADAMS (118 Hrs), Steam Engineering (50 Hrs.), ASDP (1 Week), KPIT PACE (35 Hrs) , Hands on training on PCB Designing, Circuit Simulation and Layout Designing (2 days), Solar Smart Student Certification Program by (KSPL),IIT Mumbai (2 days) |

1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?

Department Advisory Boards and Program Assessment Committee meets regularly to discuss feedbacks received and take necessary actions to implement suggestions.

Stake holders like **Alumni, employers, and industries** play key role in enriching the curriculum.

- ✓ Employers give feedback on the important criteria like Communication Skills,

emerging technologies and innovative practices. (E.g. Communication Skills courses are based on the feedback of employers, Automation Courses are organized on the feedback of Industry associates).

- ✓ Communication and Personality Development Cell, Professional Development Cell (Technical Add on Courses, Foreign Language Training) Higher Studies Preparations, Competitive Exams Preparations (MPSC, UPSC etc)
- ✓ Alumni contribute in various aspects like skill enhancements, aptitude building etc. (e.g. Java, C#, .Net, PHP, Android Application development, and Big Data Analytics and Aptitude training is based on feedback of Alumni.)
- ✓ Employability skills are introduced as one of the open elective subject in the curriculum by the university on the feedback from the industry.
- ✓ Once in a semester / year, parent teacher meet is organized where parents give their valuable feedback on training requirement for placement, market needs which are helpful in overall betterment.
- ✓ Students also give the feedback about the subjects. (Course End Surveys give inputs regarding content of curriculums)

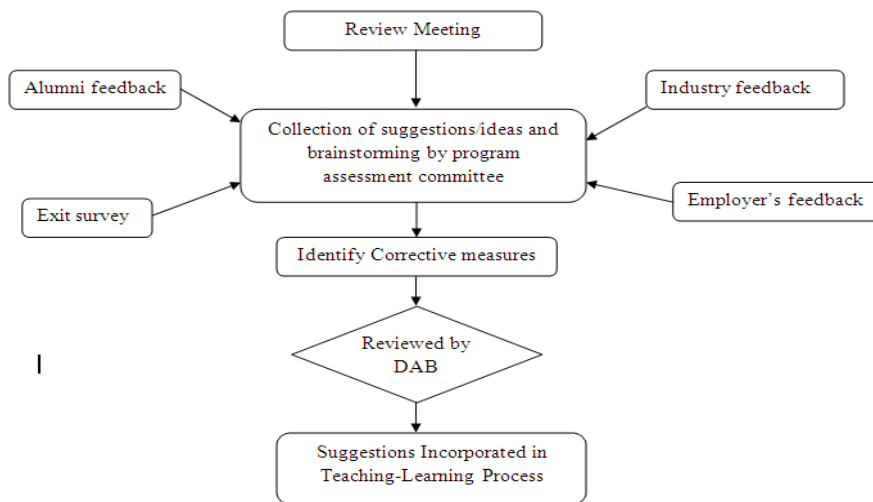


Fig.: Feedback mechanism and value addition to the curriculum

1.3.6 How does the institution monitor and evaluate the quality of its enrichment programmes?

Monitoring – Institute is interested in student’s employability enhancement, quest for technical excellence and make sure of encouraging the global competencies. Through feedback of the stakeholders and based on the analysis of the feedback, the institution decides the suitable enrichment programmes. Institute monitors the quality of enrichment programs internally and externally through:

- ✓ Internal Academic Audit.
- ✓ External Academic Audit.
- ✓ PAC (Program Assessment Committee), DAB (Department Advisory Board) Meetings.
- ✓ Feedback from Alumni, Employers/Industry and Parents.

Evaluation - Institute evaluates the quality of the enrichment programs through its knowledge components:

- ✓ Results.
- ✓ Paper publications.
- ✓ Project Work
- ✓ Patent files.
- ✓ Placements.
- ✓ Higher Studies

1.4 Feedback System

1.4.1 What are the contributions of the institution in the design and development of the curriculum prepared by the University?

The institution is affiliated to the SPPU and follows the syllabus prescribed. Any changes / upgradations in the curriculum are solely handled by the university in consultation with participating members of the affiliated colleges.

Faculty members of the Institute are involved in designing, drafting and planning the curriculum in various capacities as Academic Council Member, Chairman of BoS, Course Chairman and Experts. Institute is involved in designing open electives for final year students in association with industry.

- a) Open Elective course, Advanced Automotive Electronics is framed in collaboration with KPIT and is approved by SPPU for B.E Electronics and Telecommunication Engineering Students.
- b) Open Elective course, Steam Engineering & Energy Conservation Management is framed in collaboration with Forbes Marshall, Pune and is *under approval* by SPPU for B.E Mechanical Engineering Students.(Currently the same subject is undertaken as add-on course)

The feedback is taken regularly from the stakeholders such as industry experts, research experts, parents, higher education organizations to improve the contents and delivery of contents. Faculty involved in designing the curriculum share the analysis of feedback at the meetings organized for the same.

1.4.2 Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programmes?

Yes, a formal mechanism to obtain feedback from students and stakeholders regarding Curriculum and related topics.

- 1) Institute has developed the formal feedback and improvement mechanism for curriculum upgradation .Feedback is collected from students, parents, and alumina and industry persons aiming at the enhancement of curriculum. These feedbacks are

shared among the staff and further to authorities during syllabus discussion and finalizations.

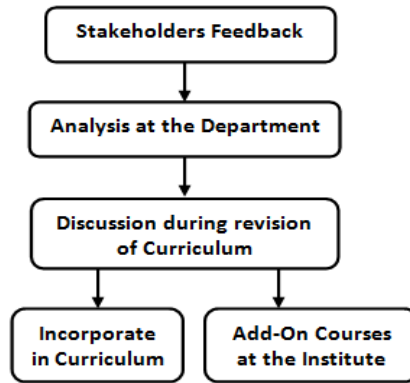


Fig.: Feedback mechanism

- 2) Open Elective course, Automotive Electronics is framed in collaboration with KPIT and is approved by SPPU for B.E Electronics and Telecommunication Engineering Students.
- 3) Open Elective course, Steam Engineering & Energy Management is framed in collaboration with Forbes Marshall, Pune.

Members of BoS and senior faculty members are involved in providing guidelines considering these feedbacks for syllabus design.

1.4.3 How many new programmes/courses were introduced by the institution during the last four years? What was the rationale for introducing new courses / programmes?)

Institute has introduced PG (ME) programme during the last four years to enable engineers to be empowered to face the challenges of the technical world in specific and satisfy the needs of the society at large.

Courses Introduced

| Department | Programme | Intake | Year |
|------------------------|-----------------------------|--------|---------|
| Information Technology | M.E. Information Technology | 18 | 2014-15 |

The rationale for introducing the new programmes are-

- ✓ The Institute is located in the IT Industry hub and more job opportunities are available to the aspirants.
- ✓ Need for a specialized manpower to handle complex engineering tasks.
- ✓ Global competency.
- ✓ Enhancing analytical and designing skills towards a technical real time problem.
- ✓ Enabling multidisciplinary approach for solving industrial problems.
- ✓ Opportunity for exploration, research and to become innovators and visionaries.



CRITERION II: TEACHING - LEARNING AND EVALUATION

CRITERION II: TEACHING - LEARNING AND EVALUATION

2.1 Student Enrollment and Profile

2.1.1 How does the college ensure publicity and transparency in the admission process?

The admission process of student is conducted by the Directorate of Technical Education, (DTE) as per the government norms. The admission process of the Institute is widely publicized and transparent within the government norms. Institute ensures publicity through following ways

- Institute Website
- Institute Boucher & leaflet
- Facilitation Centre
- Counseling of Students
- Newspaper Advertisement
- Education Fairs and Exhibitions

The institute ensures transparency in admission process by adhering to the guidelines of DTE and to the rules and regulations formulated by the Government of Maharashtra.

2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other) to various programmes of the Institution.

Admission process is carried out centrally by Directorate of Technical Education (DTE) as per the admission rules, regulations and guidelines of the government. Government of Maharashtra conducts common entrance test (MH-CET). The criteria for admission is given below in table 2.1 The detailed criteria for admission of students for different courses are displayed for public information on DTE website <http://www.dtemaharashtra.gov.in>

Table 2.1 Admission Criteria

| Course | Criteria for Admission |
|------------------------|---|
| First Year Engineering | Maharashtra State Candidature Candidate Passed HSC with PCM (50%), MSCET non zero score. All India Candidature Candidates (J&K) Passed HSC with PCM (50%), CET non zero score or JEE Main Paper I Children of NRI / OCI / PIO, Children of Indian workers in the Gulf countries, Foreign National Passed HSC with PCM (50%), Any other criterion declared by appropriate authority from time to time. |

| | |
|--------------------------------------|--|
| Direct Second Year Engineering | Passed Diploma Course in Engineering and Technology OR B.Sc. (HSC with Maths) at least 45% marks and any other criterion declared by appropriate authority from time to time. |
| P.G | For Maharashtra Candidature Candidates and All India Candidature Candidates : Passed Bachelor Degree (50%), GATE non zero score, For sponsored candidates, minimum of 2year full time work experience in a registered firm/ company Children of NRI / OCI / PIO, Children of Indian workers in the Gulf countries, Foreign National : Passed Bachelor Degree (50%), Any other criterion declared by appropriate authority from time to time. |
| M.B.A | Maharashtra State Candidature Candidate : Passed minimum Three year duration Bachelor Degree (50%), CET non zero score All India Candidature Candidate, Jammu and Kashmir Migrant Candidature Candidate : Passed minimum Three year duration Bachelor Degree (50%), CET, GMAT, CAT non zero score Children of NRI / OCI / PIO, Children of Indian workers in the Gulf countries, Foreign National : Passed minimum Three year duration Bachelor Degree (50%), any other criterion declared by appropriate authority from time to time |
| M.C.A | For Maharashtra Candidature Candidates, All India Candidature Candidates, Jammu and Kashmir Migrant Candidature Candidates : Passed minimum Three year duration Bachelor Degree (50%), Studied Mathematics as one of the subjects at (10+2) level or at Graduate level examination, CET non zero score. Children of NRI / OCI / PIO, Children of Indian workers in the Gulf countries, Foreign National : Passed minimum Three year duration Bachelor Degree (50%), studied Mathematics as one of the subjects at (10+2) level or at Graduate level examination, any other criterion declared by appropriate authority from time to time. |

2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programmes offered by the college and provide a comparison with other colleges of the affiliating university within the city/district.

Minimum and maximum marks for admission to first year of all programmes of academic

year 2016-17 are detailed in the table 2.2 given below. Following comparison is done for open category student merit. The marks are taken from the DTE, Maharashtra website “<http://www.dtemaharashtra.gov.in>”. This information is available in open domain.

| Table 2.2 Marks for Admission at Entry Level | | | | | | | | | |
|--|------------------------------------|--------------|--------------|-----------|--------------|--------------|--------------|--------------|--------------|
| Sr. No | Colleges | PCCOE | | RSCOE | | M.I.T. Pune | | D.Y.P Akurdi | |
| | Programmes | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks | Min Marks | Max Marks |
| 1 | MechEngg. (1 st Shift) | 110 | 152 | 35 | 126 | 129 | 176 | 77 | 141 |
| 2 | Comp Engg. (1 st Shift) | 129 | 153 | 98 | 123 | 149 | 172 | 102 | 145 |
| 3 | E&TC Engg. (1 st Shift) | 103 | 123 | 63 | 99 | 128 | 163 | 74 | 111 |
| 4 | Info.Tech. (1 st Shift) | 119 | 126 | 85 | 104 | 143 | 155 | 91 | 123 |
| 5 | MechEngg. (2 nd Shift) | 98 | 129 | NA | NA | NA | NA | 79 | 115 |
| 6 | Comp Engg. (2 nd Shift) | 123 | 131 | NA | NA | NA | NA | NA | NA |
| 7 | E&TC Engg. (2 nd Shift) | 98 | 110 | NA | NA | NA | NA | NA | NA |
| 9 | Civil | 108 | 130 | 58 | 109 | 129 | 161 | 83, 77 | 126, 102 |
| 10 | M.E Mech (Design) | 328 10.03 | 388 26.51 | 7.04 | 398 34.35 | 430 40.33 | 558 50.10 | 9.56 | 379 32.53 |
| 11 | M.E Mech (Heat Power) | 5.92 | 19.59 | 9.87 | 19.59 | 402 34.75 | 468 43.96 | 8.91 | 29.4 |
| 12 | M.E E&TC (VLSI & Emb.) | 256 2.09 | 361 20.40 | 3.29 | 16.73 | NA | NA | 9.37 | 369 26.51 |
| 13 | M.E Computer | - 0.63 | 257 20.98 | 14.43 | 18.35 | 15.48 | 378 27.33 | 6.86 | 10.91 |
| 14 | M.E IT | - 1.39 | 360 19.00 | NA | NA | 4.91 | 362 25.90 | NA | NA |
| 15 | M.B.A. | 0.57 | 88.60 | 41 | 95.3 | 77 | 98.03 | 42 | 79.53 |
| 16 | M.C.A. | 25 | 125 | 21 | 72 | NA | NA | 15 | 105 |

2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If ‘yes’ what is the outcome of such an effort and how has it contributed to the improvement of the process?

No, however the review and improvements in the admission process is in the purview of central admission authority i.e. DTE.

2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion

- *SC/ST*
- *OBC*
- *Women*
- *Differently abled*
- *Economically weaker sections*
- *Minority community*
- *Any other*

The admission policy addresses national commitment to diversity and inclusion as directed and approved by AICTE and DTE. The status of the admissions in the institute for the current academic year demonstrates adherence to this. Table 2.3 illustrates the details about actual students admitted for the Academic Year 2016-17

Table 2.3 Number of Students Admitted for A.Y 2016-17

| Category | Male | Female | Open | SC | ST | OBC | NT | Other |
|----------------------------------|-------------|---------------|-------------|-----------|-----------|------------|-----------|--------------|
| Programmes | | | | | | | | |
| Mechanical 1 st Shift | 103 | 23 | 35 | 7 | 4 | 25 | 5 | 50 |
| Mechanical 2 nd Shift | 53 | 7 | 21 | 3 | 3 | 10 | 4 | 19 |
| Computer 1 st Shift | 78 | 51 | 34 | 9 | 5 | 29 | 7 | 45 |
| Computer 2 nd Shift | 38 | 22 | 21 | 4 | - | 7 | 2 | 26 |
| E&TC 1 st Shift | 76 | 52 | 37 | 13 | - | 23 | 8 | 47 |
| E&TC 2 nd Shift | 31 | 24 | 21 | 4 | - | 10 | 2 | 18 |
| IT 1 st Shift | 39 | 24 | 20 | 3 | 1 | 11 | 4 | 24 |
| Civil Engg1 st Shift | 49 | 15 | 14 | 3 | 3 | 15 | 9 | 20 |
| M.E Mech (Design) | 15 | 2 | 7 | 2 | - | 5 | 1 | 2 |
| M.E Mech (Heat Power) | 2 | 2 | 2 | - | - | 1 | 1 | - |
| M.E E&TC (VLSI) | 7 | 10 | 7 | 4 | - | 3 | 1 | 2 |
| M.E Computer | 3 | 9 | 3 | 4 | - | 2 | 1 | 2 |
| M.E IT | 4 | 6 | 7 | 1 | - | - | - | 2 |

2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. reasons for increase / decrease and actions initiated for improvement.

As discussed in 2.1.1, the admission to the institute is governed by DTE, the students apply through centralized admission process (CAP) conducted by DTE, Government of Maharashtra. Hence it is difficult to comment on the demand ratio and cannot be computed. However, the comments are made on the trends as given below.

| Programmes | Acad Year | Intake | Number of students admitted | Demand Ratio |
|---|------------------|---------------|------------------------------------|---|
| Mechanical Engineering | 2016-17 | 180 | 184 | Due to centralized admission process, the application forms are collected at state level and hence it is not possible to calculate exact demand ratio |
| | 2015-16 | 180 | 187 | |
| | 2014-15 | 180 | 187 | |
| | 2013-14 | 180 | 186 | |
| Computer Engineering | 2016-17 | 180 | 188 | |
| | 2015-16 | 180 | 187 | |
| | 2014-15 | 180 | 187 | |
| | 2013-14 | 180 | 187 | |
| Electronics and Telecommunication Engineering | 2016-17 | 180 | 183 | |
| | 2015-16 | 180 | 188 | |
| | 2014-15 | 180 | 185 | |
| | 2013-14 | 180 | 186 | |
| Information Technology | 2016-17 | 60 | 63 | |
| | 2015-16 | 60 | 64 | |
| | 2014-15 | 60 | 64 | |
| | 2013-14 | 60 | 63 | |
| Civil Engineering | 2016-17 | 60 | 64 | |
| | 2015-16 | 60 | 64 | |
| | 2014-15 | 60 | 63 | |
| | 2013-14 | 60 | 64 | |
| M.E (Mech) - Design Engineering | 2016-17 | 18 | 17 | |
| | 2015-16 | 18 | 18 | |
| | 2014-15 | 18 | 18 | |
| | 2013-14 | 18 | 18 | |
| M.E (Mech) - Heat Power Engineering | 2016-17 | 18 | 3 | |
| | 2015-16 | 18 | 15 | |
| | 2014-15 | 18 | 13 | |
| | 2013-14 | 18 | 17 | |
| M.E (E&TC) - VLSI Engineering | 2016-17 | 18 | 17 | |
| | 2015-16 | 18 | 18 | |
| | 2014-15 | 18 | 18 | |
| | 2013-14 | 18 | 17 | |
| M.E (Computer Engineering) | 2016-17 | 18 | 12 | |
| | 2015-16 | 18 | 17 | |
| | 2014-15 | 18 | 18 | |

| | | | | |
|--|---------|----|----|--|
| | 2013-14 | 18 | 18 | |
| M.E (Information Technology Engineering) | 2016-17 | 24 | 10 | |
| | 2015-16 | 24 | 16 | |
| | 2014-15 | 24 | 19 | |
| | 2013-14 | 24 | NA | |
| Master of Business Administration (MBA) | 2016-17 | 60 | 56 | |
| | 2015-16 | 60 | 60 | |
| | 2014-15 | 60 | 43 | |
| | 2013-14 | 60 | 37 | |
| Master of Computer Application (MCA) | 2016-17 | 60 | 59 | |
| | 2015-16 | 60 | 57 | |
| | 2014-15 | 60 | 53 | |
| | 2013-14 | 60 | 52 | |

Undergraduate Courses: The institute is centrally located at MIDC Pimpri Chinchwad and in the vicinity of IT Hub, Hinjewadi, Pune. The clusters of around 6000 small scale industries and various national and multinational companies are spread over this industrial area. These days communication has become the important dimensions of the success mantra for all companies to compete at national level and globally. To cater to the needs of these industries, the requirement of engineering graduates is always in great demand. The Mechanical, Electronics and Telecommunication and IT engineers always have jobs options in local and international market. These engineers are major resources for automobile, industrial engineering, control and automation fields. Computer and IT engineers are catering to the needs of the IT industries located at IT Park, Hinjewadi. The Civil Engineering programme added in the academic year 2012-13, to address the growing demand of manpower required for infrastructure projects, Environment, Transport etc. Nations ambitious SMART CITY project has created a great opportunity for Civil engineers. This resulted into massive infrastructure expansion and allied verticals like transport engineering.

Postgraduate Courses: The Post graduate programmes in engineering are added to cater the need of specialized professionals in respective domains. The M.E (Information Technology Engineering) programme is added in the academic year 2014-15 to cater the need of specialized IT professionals. The MBA and MCA programmes are started to support the manpower required for management side with the necessary knowledge and skillsets in business environment.

2.2 Catering to Student Diversity

2.2.1 How does the institution cater to the needs of differently-abled students and ensure adherence to government policies in this regard?

The institute identifies the need of differently-abled students. With the concern to the difficulty faced by differently-abled students, institute provides comfortable teaching learning environment to these students and provides following facilities.

- The Institute infrastructure is well equipped to meet the needs of the differently-abled students by providing, lifts, wheel chair, and easily accessible rest rooms.
- Special arrangement is made during university examinations along with writer if needed as per university norms.

2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If 'yes', give details on the process.

Yes. The requirements of students in terms of knowledge and skills are assessed when students are inducted for the respective program. The process of collecting requirements is through

- a) Analysis of marks obtained by students in entrance and qualifying examinations.
- b) Orientation programmes and parents meets- through interaction with students and parents
- c) Conduction of ability tests (e.g. Soft skills) and psychometric task which gives level of performance in respective domain.
- d) Through analysis of student performance in unit tests, lab work, mid-term assessment etc.

The key issues generally identified are:

- Some students lack of focus, confidence and clarity while speaking in English. In general, they lack communication skills.
- Some of are from poor background and have financial problems.
- Some students are weak in basic principles. Detailed analysis of CET score and twelfth result is done to identify the weak areas associated with engineering courses.

2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/Add-on/Enrichment Courses, etc.) to enable them to cope with the programme of their choice?

Institute performs analysis of knowledge and skills of enrolled students for the programme as stated in point 2.2.2. These identified gaps are addressed through the programmes carried out by the departments for various levels of enrolment. In addition, Student Development Cell takes care of Add-on and Aptitude and soft skill Courses which are intended to bridge the knowledge gap in various professional skills.

- Through induction program.
- Preparatory programs for English language and curriculum courses like Mathematics, Engineering Drawing and Computer Programming.
- Ethical attitude building programs such as Art of Living, YES+ programme and guest

lecture on “Time Management”.

- In addition to the curriculum subject on communication skills, add on program is conducted to strengthen professional communication of students.
- Specialized Language Laboratory is set up to carry out communication courses
- Institute has a very good mechanism for continuous evaluation and monitoring the progress of the students through ERP system. This helps to identify slow learners.
- Remedial classes and makeup activities are conducted by the faculty members for the subjects.
- Meetings/Interaction with Parent-Teacher guardian also help in identifying the weak learners and further counseling them.
- Faculty deploys additional contents for the purpose of the continuity of the subject matter identified as gap for understanding the subjects.

2.2.4 How does the college sensitize its staff and students on issues such as gender, inclusion, environment etc.?

Environment of PCCOE is very conducive and healthy for learning and student development. The students are provided with parental shelter at the campus taking care of necessary need pertaining to gender, inclusion and healthy learning environment.

PCCOE has been successful in establishing the ethical and value based culture. The students and staff has no discrimination in terms of Gender, caste and economical status. To take care of this

- Uniform policies are implemented to give equal opportunity to individuals for education.
- To impart the feeling of equality with reference to economic, social and political status, the Institute has student and staff uniforms.
- Few additional facilities are as follows
 - Girls are provided with separate common rooms and refreshment facility.
 - The differently able students are supported by ramps, electrical lift facility.
 - Economically backward students are supported by the provision of food, study material, clothes etc.
 - Women grievance cell is set up to address the grievances of female students and staff.
 - Implementation of policies of University, Centre and State government pertaining to caste, support for female students and staff, economical – scholarships, human rights etc.
 - The anti-ragging committee functions actively in the institution to handle carefully the issue of ragging.
 - Parent Teacher Guardian Scheme (PTG) is implemented where PTG look for

sensitive issues (if any) related to gender discrimination or caste and addresses it with caution or avert it by careful counseling.

- The institute has students from rural background, students from different states and students from weaker sections. All these students are involved in academics, cultural activities, sports and technical events without any discrimination (gender, caste, religion).

2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?

The advanced learners are identified from the merit list of the students admitted and through the interaction of faculty members with students during lectures and practical. Various methods of evaluation are also used for the purpose: viz. question-answer sessions, tests, problem solving sessions, home assignments, group discussions and seminars.

The institute aptly identifies and responds to the special learning needs of advanced learners through the following means:

- Opportunity to get engaged in innovative projects and research to spend more time in laboratories.
- Helping them to explore independently by assigning and guiding them on live projects by which society can be benefited.
- Students are also motivated to make research contributions in their major project at the UG and PG level and publish their research work / file patents in national and international journals/conferences.
- Helping them to build problem-solving abilities by providing hypothetical situations and real life cases through various activities and competitions.
- Motivating students to read reference books and journals as per their needs and refer E – Journals like IEEE and Science Direct Publication to provide accessibility to recent trends.
- Access to various video lectures provided by NPTEL and similar sources.
- Arranging expert/guidance lectures to harness their potential.
- Motivating to higher studies like GATE, GRE, GMAT, UPSC/MPSC through GATE Club, MPSC Club.
- Guiding them through science club, Maths club, Coding Club and ROBOCLUB.
- Encouraging them to select their projects topics where they get an opportunity to know the needs of society and give the solution for it.
- Help them to get live projects in industries, Research and Development institutes and in private enterprises, hospitals etc.
- Motivating the senior students to interact with their juniors for enhancing knowledge
- Helping them to get internship at industries for their projects or dissertations.
- Personal follow-up and encouragement by subject teachers, class-teachers and Head

of the Department throughout the semester.

- Providing competitive environment to participate in co-curricular activities like ACM-ICPC, SAE-BAJA, Vehicle Design-SUPRA, SOLARIS, Go-Bart, e-Yantra lab projects, 3dPLM product innovation projects etc.
- Providing opportunities to represent the Institute in various events and activities at the university/ state/ national levels.
- Institute has dedicated Sports Cell and Art Circle cell which encourages students to showcase their talents in sports and arts.
- Special motivating and guides sessions are internally conducted to boost the confidence of students to further excel in examinations as well as other professional activities.

2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?

The data of enrolled students pertaining to following criteria is collected and analyzed to understand the needs of the students.

- Background of students.
- Scholar students.
- Economically weaker students.
- Merit status of students.
- Differently abled students

The academic performance data of students is collected through class teachers and academic coordinators. Root cause analysis is performed on the results and attendance percentage of the students. In addition to this parent teacher guardian identifies the reasons for poor performance, poor attendance. The following measures are taken to improve the performance of slow learners

- Parent teacher guardian (PTG) monitors the academic performance of 15 to 20 students.
- Special classes, remedial classes and tests are conducted for the slow learners after the regular classes of the institute.
- Slow learners progress is discussed with their parent for academic improvement during Parents Meet.

For Economically Weaker Section and disadvantaged sections of society the institute has taken following measures.

- Institute provides information about government scholarship benefits.
- Reservations in admission SC/ST/OBC/minority students, as per Govt. Rules and

regulations.

- Book bank facility is available in the institution to help the students.
- Information is provided to students and parents about free ships, EBC scholarship, government schemes and education loan facilities.
- Earn and learn schemes are promoted by SPPU and Institute to help students of economically weaker section.
- Tuition Fee Waivers Schemes are provided by the government.

Institute takes special steps to take care of students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided

- The students who are physically challenged are provided with necessary facilities like ramp, lifts and seating arrangements etc.
- Economically weaker student are supported through Institute Social Responsibility Cell (ISR) by the implementation of various schemes of university, state, central government and institute itself.
- Economic support in terms of food, clothes and staying arrangements
- Slow learners who are identified through the academic monitoring process are provided with remedial actions and special counseling sessions by experts.

2.3 Teaching-Learning Process

2.3.1 How does the college plan and organise the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)

At the beginning of each academic year, the affiliating university gives guidelines about the academic schedule of the semester which includes Commencement of the semester, End of the semester, Schedule of Examinations etc.

Institute plans and deploys the teaching learning and evaluation schedules systematically with well drafted processes standardized by ISO. The planning phase of academics involves lot of meetings and deliberations which results in to institute level and department level planning. This is well supported by automated software based system PCCOE ERP. The major planning areas addressed are

- Resource Planning (Infrastructure, Equipments, Faculty and Finance)
- Schedule Planning (Academic calendars, Time tables etc)
- Content Planning (Contents and Content Beyond Syllabus, Course Outcomes and targets, Activities, Teaching Plans, CDMs, Evaluation and Assessment Methods etc)
- Event/ Activity Planning (Curricular, Co-curricular and Extra-Curricular Activities etc)

The above plans are realized by the process owners performing various activities as their

responsibilities such as Faculty, Course Co-ordinator, Module Co-ordinator, Academic Co-ordinator, HOD, Dean and Principal.

Organizing Resources

Department and Institute perform requirement gathering for resources and acquires them through purchases, appointments etc. Financial resources are utilized through spending them on salary, equipments, research facilities and projects etc. The requirement of infrastructures such as labs, classrooms, supporting academic facilities are developed/upgraded as per the requirement of the curriculum.

Organizing Schedules

As per Academic calendar of the institute and the departments are followed by the faculty staff and students for timely execution of various academic activities such as commencement/end of semester, examinations, meetings, other circular and co-curricular activities etc. The planned time tables which includes schedule for lectures/practicals with respect to faculty, Laboratory, classrooms are used to execute teaching and learning systematically without overlapping and thus ensures proper utilisation of resources.

Organizing Content Delivery

Faculty deploys the contents to the students as per the teaching plan using various planned CDMs, conduction of activities. Faculty utilise their planned contents to develop skill of students. Students are also exposed to content beyond syllabus planned by the faculties. The assessment of students for their learning outcomes is performed using appropriate evaluation methods.

Organizing Event/ Activity

Various activities are conducted by the respective in charges. The organization of the activity as proposed in the activity plan is conducted. Majorly activities are curricular like FDPs, Industry Visits, Trainings and Workshops etc. Co-curricular activities like Techlligent, Spectrum, Insperia, Eureka, Anantya, Project Competitions, Poster Competitions, club activities etc. Extra- curricular activities like cultural gathering Swartarang, sports etc.

2.3.2 How does IQAC contribute to improve the teaching –learning process?

IQAC – The quality assurance cell is responsible for planning and execution of qualitative teaching learning process. The regular meetings and deliberations on various aspects to strengthen teaching learning process are carried out by IQAC. It is also responsible for review and improvement of the practices followed by faculty, staff and students towards teaching learning.

Key Contributions of IQAC in teaching -learning

- Major policy decisions are made by IQAC towards improving the teaching -

learning process. IQAC considers external factors and internal performance while making such decisions

- Decision making is supported by analysis of qualitative and quantitative evidences collected through feedbacks and analysis reports of Academic Review Meetings (ARM), Management Review Meetings (MRM) and Department Advisory Board (DAB) Meetings.
- Frequent academic review meetings (ARM) give reports of continuous progress and monitoring of academic performance.
- As a practice of ISO, regular MRMs are conducted where in quality objectives are analyzed and discussed.
- Department Advisory Board Meetings discuss academic performance and attainment of programme outcomes
- IQAC ensures uniformity and co-ordination among different programmes in the institute

2.3.3 How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?

Teaching Learning process implemented in the institute focussed to address learning outcomes of the curriculum. The graduate attributes suggested and accepted at the global level are taken care while conduction of Teaching Learning process. Hence student remains the central focus while delivering the contents and monitoring improvements in knowledge, skills and attitude. To promote this,

- Institution has adopted Outcome Based Education (OBE) where student centric approach is follow.
- All the academic processes are designed and oriented towards attainment of student centric programme outcomes (PO).
- Course objectives and course outcomes are defined for every course and communicated to the student which contributes to POs.
- Direct and Indirect assessment methods are used by teachers for evaluation of expected learning outcomes.
- Based on this evaluation, teachers fine tune their mode of delivery.

Support structures and systems available for teacher

- Internet and Wi-Fi facility.
- Well equipped project laboratories and Innovation Centre are kept open even after working hours for students' to work on their projects.
- Departments receive adequate funding annual budget every year for developing in-house projects, Research Projects and Laboratory setups.

- Teachers are also encouraged and sponsored to attend training programs to improve teaching and technical skills organized by the institute as well as by other organizations.
- Workshop facilities are provided for student projects, special technical activities during extending working hours.
- Faculty MOU's Industry Interaction

Support structure for Interactive Learning - Seminars Project based learning, Group discussions, Quiz , Mock viva ,Training for aptitude tests

Support structure for Collaborative Learning-CESA, Seminars, Final year project is yet another platform available to students for collaborative and interactive learning, Institute supports department faculty to organize project competitions, technical workshops, mini projects, poster competitions, exhibitions and student conferences so that students can demonstrate the outcome of their collaborative and interactive learning, Institute organizes in-house training programs. Industry Visits , Debates

Support structure for Independent Learning-Internship, Learning Resource Development Centre (LRDC), Availability of online and in-house resources such as NPTEL – Video Lectures, English Language Lab software etc. Innovation Centre and well equipped library. Institute Six Monthly Publication- ‘NEWSWIRE’, Department e-bulletins

All the above mentioned support structure i.e. laboratories and sponsorship help teachers to develop skills like interactive learning, collaborative learning and independent learning in the students.

2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?

PCCOE'S academic and research culture provides various platforms for student to explore themselves. The main focus is to trigger the energy and thinking in young minds. To achieve this “**Project Based Learning**” is adopted at all levels. Various activities are performed to provide an exposure towards current critical thinking, innovative creative attitude and self learning approach.

Various activities, conducted to nurture the respective skillsets among students, are listed below

Critical Thinking

- Students are assigned with different practical task and hands on session during experience work lead them to critical thinking.
- In addition to regular practical work, students are assigned poster presentations, model making and mini project tasks to nurture above skills.
- Industrial visits are organized for the students to gain practical knowledge about the functioning in various industries. This knowledge gives broad thinking in the minds of students.

- Project work carried out by students is mostly product development and research based which leads them for critical thinking.
- Students usually undertake projects in association with industry or in-house developments. Faculty member works as guide and actively involve themselves in facilitating the completion of project work. The duration of the project work is one year. These projects finally increase their logical thinking ability

Creativity and Innovation

- Institute consciously takes efforts to inculcate creativity and critical thinking ability among students through trainings and use of software tools such as Innovation Gold Mine and Idea Generator.
- The faculty members always try to engage themselves to train the students in different multidisciplinary Engineering & Technological areas.
- Research based projects are floated under graduate as well as post graduate students to increase research ability.
- Approach to strengthen these attributes has led to student achievements in project competitions, paper presentations, conferences, events such as Robotics, Apps Development, vehicle design, Racing competitions-Supra, Robocon, BAJA model making competition, Coding Competition and ACM events etc.

Scientific Temper

- Students are encouraged to do the literature survey for projects, paper presentations and seminars.
- Students who are interested in Research and Development work are motivated and encouraged to present their work in different National/International Seminar/Conference/Workshop and publish their work in National/ International Journal.
- Students have to undergo projects at final year level. Most of the projects where students are encouraged to use latest techniques which finally leads to research attitude among the students. This helps them to produce in-depth interest to go for higher studies.
- Students are rewarded for their best and outstanding performance in project, research and other relevant areas.
- Faculty members are also engaged with their research work individually as well as in association with potential students by sharing their innovative concepts with these students.

2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning - resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education, etc.

Faculty members of the institute are aware of modern teaching-learning tools. Faculty is constantly motivated and encouraged for effective teaching by providing following required facilities at the institute mentioned below. All classrooms are provided with LCD Projectors, computers and Internet Connectivity to support effective teaching.

Technologies and Facilities

- Central Library & Departmental Library
- Digital Library - IEEE, Science Direct, International Online Journals
- Print Journals, CDs and Technical Magazines
- British Library subscription, ARAI library
- NPTEL – Video Lectures
- Lecture notes by faculty, old university question papers
- Online Mock test using Moodle Software
- Guest Lectures, Seminars and workshops
- Technical Add-on courses
- English Language Lab software

Resources

- Learning Resource Development Center (LRDC) software
- Innovation and Incubation Centre
- NVIDIA -GPU Education Centre
- Audio Video Conferencing Hall
- Computer Centre and Internet access with Wi-Fi
- Annual National Technical Events (Techlligent, Spectrum and Insuperia)
- Aptitude and Soft skills trainings
- Personality Development programs
- Student Development and Welfare
- Internship opportunities

2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?

Number of activities is carried out at the institute to expose the faculty and students to advanced level of knowledge and skills. Institute has created facilities for making faculty and students acquainted with the advanced concepts in Technology. These facilities include

- Digital subscription to online journals, libraries and resources such as NPTEL.
- Massive Open Online Courses (MOOC) run by Computer Department.
- Platform to organize and participate in seminars, workshops, conferences on latest technology at different levels.
- Internet and Wi-Fi Facility

- Mentoring System by senior faculty for improved teaching learning and knowledge (SIG).
- Industrial Visits and Study Tours are arranged to explore latest trends in industry.
- Organization of Expert/guest lectures by eminent faculty from various recognized institute like IITs, government research organizations like CDAC, DRDO and industries to augment learning with latest industrial technology.
- LRDC centre where audio, visual facility to facilitate blended learning, collaborative learning etc.
- Exposure to the research presentations for faculty and students in the conferences organized by the institutes such as ICCUBEA – International Conference on Computing Communication and Control.
- Institutional Membership to various professional bodies such as ACM, ISTE, QCFI etc.

2.3.7 Detail (process and the number of students / benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling / mentoring / academic advise) provided to students?

These students face various challenges when they are exposed to a professional course like Engineering. Support and guidance to the students to address their academic, personal and psycho-social issues are given in the following ways:

- a) Parent Teacher Guardian Scheme and
- b) Counseling by Class Teacher & Head of Department.

Fig. 2.1 shows the mentoring system which supports and provide guidance to the students.

a) Parent Teacher Guardian Scheme:

- PTG counseling addresses issues related to the personal and professional development of the students.
- PTG process is standardized as per PCCoE ISO 9000:2001 process.
- Following are the details of the Parent Teacher Guardian Scheme

Objective: To provide personal counseling for academic progress, development.

Type of mentoring: Professional guidance / career advancement /course work specific / laboratory specific / development.

Number of students per mentor : Around 18-20

Frequency of meeting: Three times per semester (additional meeting if necessary)

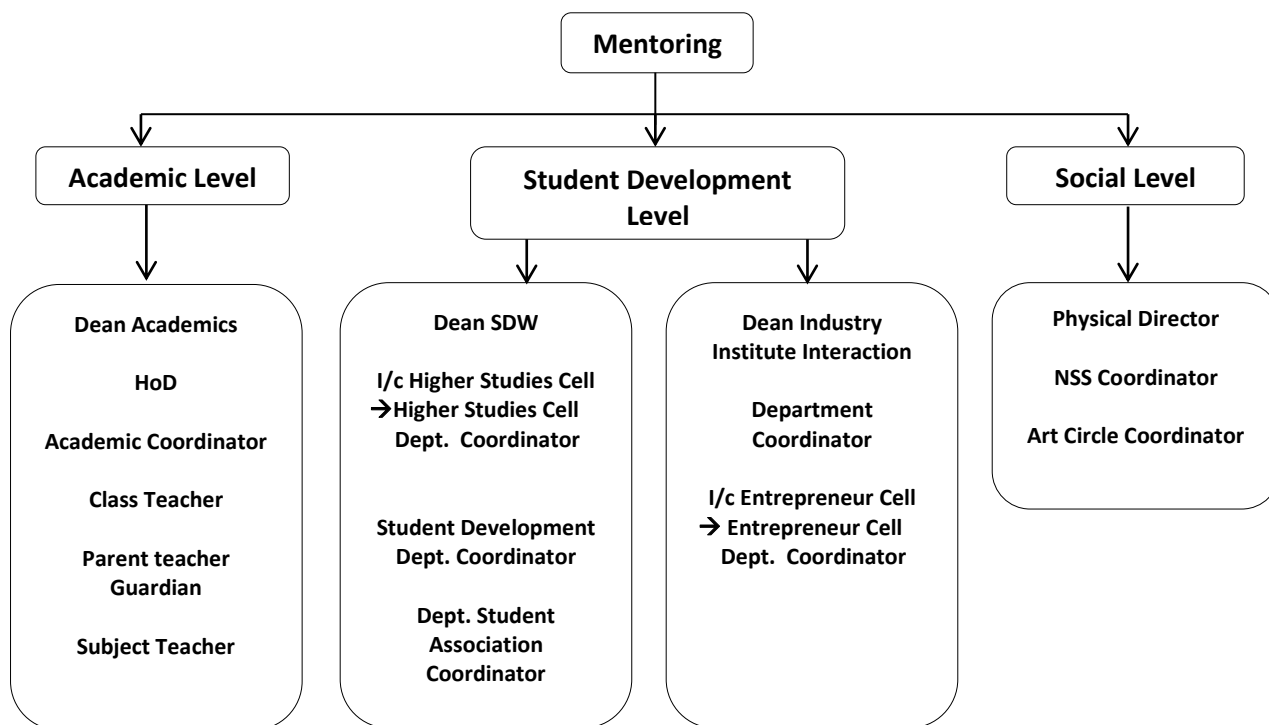


Fig. 2.1 Student Mentoring System

b) Class Teacher and HOD counseling:

- At the beginning of every semester, the HOD mentors the students during “Welcome Address” on various aspects related to academics, career advancement and overall development of the students.
- At the end of each semester, HOD interacts and counseling students for improvement in overall performance.
- Class teachers mentor students for their improvement in attendance, course and lab related issues during the entire semester.
- Overall progress of student is reviewed by class teacher and HOD.
- Each student is individually guided and counseled for improving their performance in respective areas whenever necessary.

Following are the details of the Class Teacher and HOD counseling

Type of mentoring: Professional guidance / career advancement /course work specific / laboratory specific / development.

Number of students per mentor : 60 to 70 per mentor.

Frequency of meeting: As per requirement and need based.

- Institute has appointed a professional counselor who provides psycho-social support to the students and helps them. Table 2.6 illustrates the number of students benefited.
- Career guidance is provided by the training and placement coordinators and training placement officer (TPO) with support from “Communication and

Personality Development Cell (CPDC) and Higher Studies Cell (HSC).

- In addition to above, students approach individual faculty members/HOD/Principal for career guidance and counseling

Table 2.6 No. of Students Benefited by Counseling

| Sr. No | Counseling | No. of Students Benefited |
|--------|------------------------------------|---------------------------|
| 1 | Parent Teacher Guardian Scheme | 18 to 20 |
| 2 | Class Teacher and HOD counseling | 60 to 70 |
| 3 | Professional Counseling (Session) | 1083 |
| 4 | Professional Counseling (Personal) | 49 |

2.3.8 Provide details of innovative teaching approaches/methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?

Institute is always keen in improvement of the teaching learning approaches and methodologies to address the current need of engineering education. It is believed that apart from traditional teaching approaches, the use of modern teaching learning tools should be promoted. The Professional education is more student centric and focus is on the development of knowledge, skills, attitude of the students and addressing real life applications. Following approaches are used by the faculty while teaching their courses

Outcome Based Education (OBE): Members of Institute has adopted outcome based education and upgraded the Teaching Learning process accordingly. OBE focuses on specific course outcomes (COs), programme outcomes (POs) which are in accordance with the graduate attributes (GAs). Institute has demonstrated the qualitative implementation of OBE during last three years and got recognition from National Board of Accreditation (NBA). For OBE implementation faculty has

- Identified GAs which are addressed by their courses through POs
- Designed learning outcomes i.e. COs which contribute to above GAs
- Established assessment system for attainment of COs and POs
- Established remedial actions and improvement system for desired outcomes
- In order to achieve these outcomes following teaching methodologies are adopted by faculty.

Project Based Learning: Engineering knowledge is application oriented and should be demonstrated by students through working models, projects etc. It is believed that students learn more through making the projects and models themselves. So following approach is used in teaching through project based learning

- Feasible societal, technological problems are identified.
- Students are assigned these problems as mini projects/assignments etc.
- Students design, develop and implement the solutions for the given problems.
- Assess and evaluate students understanding obtained from the projects.

Activity Based Learning: Other than knowledge student should also strengthen their skills and attitude while learning the courses. These skills can be inculcated in students through activities such as presentations, demonstrations, competitions etc. In addition to these, students are exposed to skills such as professional communications, team working, individual working, work ethics etc. These methodologies are implemented by faculty in their respective courses and perform assessment of outcomes gained by the students.

Self-Learning: Self learning is used as methodology to inculcate lifelong learning in students. Faculty encourages self-learning through assignments and video lectures to observe the knowledge gained by the students expected for desired outcomes.

Effective delivery of course contents through various delivery methods contributes to the attainment of learning outcomes which directly contributes towards the attainment of programme outcomes. The appropriate content delivery methods are used in order to meet the Course Outcomes are as follows.

CDM1: Lecture with interaction

CDM2: Quiz

CDM3: Group Discussion

CDM4: Demonstration (through Models, chart, videos etc.)

CDM5: Case study based

CDM6: Mini projects/Competition

CDM7: Presentation

CDM8: Industrial visit

CDM9: Asynchronous Discussion

CDM10: Tutorial

Following Sample Case Study of IT Programme that demonstrates the effectiveness of contents delivery methods for the attainment of the POs.

Different content delivery methods are used to deliver the contents effectively which leads to the improvement in results for better attainment of the POs. For example, in the final year engineering curriculum for the course Elective II (Mobile Computing), the students passing percentage is increased from 94% to 100% in the university exam which is the result of the change in Content Delivery Method. As shown in Fig. 2.2 the student passing percentage in university exam is increased because of introduction of CDM3: Group Discussion for the year 2014-15 compared to year 2013-14 where Lecture with interaction and presentation methodologies were used.

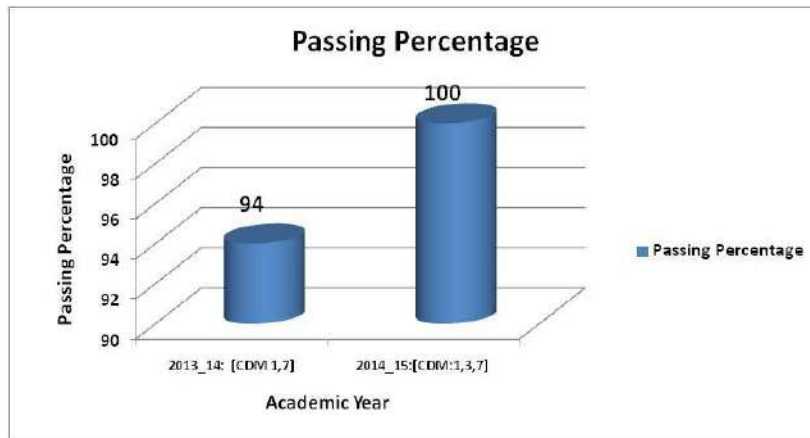


Fig 2.2: Effectiveness of Change in Content Delivery Method

Efforts made by the institution

- NPTEL, Simulations, Virtual Labs, PPTs and Charts are extensively used to augment conventional black board teaching. Working prototype models are also shown in the class rooms. Role plays, simulation studies, field visits, surveys and demonstrations are also incorporated in teaching methodology.
- Faculty members are encouraged to attend industrial training programmes / Faculty development program/workshop/Conference for a period of 1-2 weeks in a semester.
- Variety of software tools, systems with internet down loading facility are made available to the entire faculty to enable them to teach certain topics through extensive simulation techniques.
- The institution encourages the faculty in adopting e-learning such as Moodle (website organized by institution) in which a student can visualize the concepts by online exams on Moodle and downloading the day-by-day session- wise topics being taught in classroom.
- Apart from classroom interactions, the students undergo in-plant training, industrial visits, present papers, carry out in-house projects, and take up paper publication etc., and faculty give them guidance in all such activities so that the class room learning is effectively and innovatively supplemented.

2.3.9 How are library resources used to augment the teaching-learning process?

- Library procures learning resources as per the syllabus prescribed by the University and requirement of respective departments. Requirements are processed as per the established process in the library.
- Database is prepared in ERP. Hence exhaustive database of reading material is available that saves searching time of faculty and students

- Information about all these learning resources is accessible throughout the campus via Online Public Access Catalogue [OPAC]. Index for all reading material is available through OPAC. This enables fast access to subject- wise, class-wise, department-wise lists of reading material are which in turn helps to access reading material easily
- Subscribed e-resources are accessible through Science Direct and users can access full text of required material from their department and classroom. This facility helps in planning lecture and preparing lecture notes/ presentations. NPTEL lectures are also accessible through OPAC as reference material
- Apart from subscribed e-resources URLs of freely accessible e-journals, e- books are linked and can be used for lecture planning
- Book Bank facility developed through grants from Social Welfare Scheme is extended to the students for the entire Semester

2.3.10 Does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If ‘yes’, elaborate on the challenges encountered and the institutional approaches to overcome these.

The prescribed curriculum content by university is designed to fit in the time frame of semester.

There are generally no challenges in completing the curriculum within the planned time frame and calendar. The Institute has built-in mechanisms to ensure curriculum completion within the planned time frame and calendar. Some of these measures are:-

- A well-prepared academic Institute & Event Calendar for the semester, which is followed strictly.
- Individualized complete lesson plan and practical schedule is prepared in the beginning of each semester and adherence to it by the faculty.
- Continuous monitoring of the coverage of syllabus by the Academic Coordinators , HODs, Deans and Principal.
- The online phase examinations and Insem examination schedules of SPPU also ensure periodic and timely coverage of syllabus

To boost academics, the institute takes care of the following points:

- Considering the curriculum content, extra lectures per week are planned in the timetable for few courses as a precautionary measure.
- Extra lectures and practical sessions are conducted for lateral second year diploma students to cope with syllabus. We conduct separate classes for such students.
- In case of unexpected holidays due to reasons beyond the control of the Institute - provision of additional working days in the institute calendar and extra classes on Saturdays/Sundays helps the institute to manage this challenge effectively.

2.3.11 How does the institute monitor and evaluate the quality of teaching learning?

Institute has appropriate administrative system which ensures proper monitoring and control over all the academic related activities to ensure quality outputs as shown in Fig. 2.3

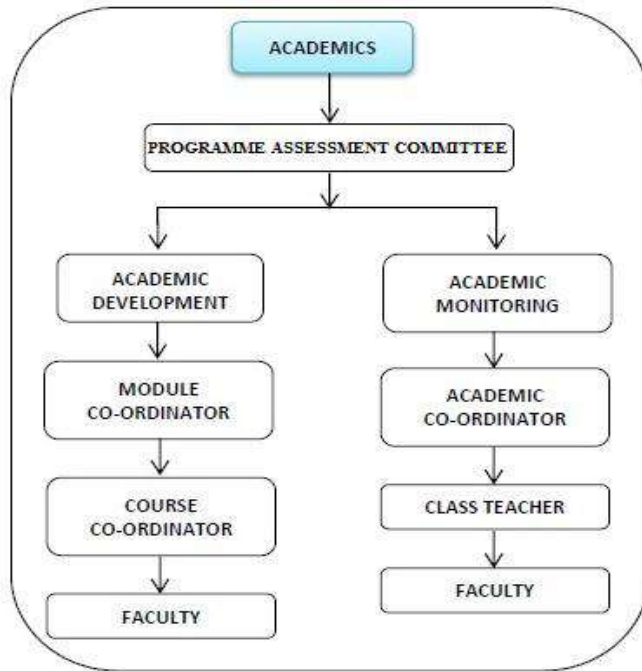


Fig. 2.3 Schematic of academic system

Following Table 2.7 illustrates the Contribution of Administrative System to monitor and evaluate the quality of teaching learning.

Table 2.7 Contribution of Administrative System

| Portfolio / Committees and their Functions, working processes and regulations |
|---|
| <p>Academic monitoring Committee</p> <ul style="list-style-type: none"> • To plan and monitor the achievement of Quality Objectives laid for the department. • To propose new academic programmes and the expansion of the department. • To plan and support innovative techniques for the improvements in teaching learning process. • To ensure smooth functioning of the department. • To ensure proper utilization, safeguarding and maintenance of the department infrastructure. • To plan portfolios and allocate work responsibilities to faculty and staff. • To propose the budget of the department to Principal and get approval. • To ensure that allocated budget is properly utilized in the department. • To propose the purchase of academic requirements and get procured from Admin. Dept. |

- To propose the library requirement and get procured from Library Section.
- To plan, execute and monitor the curricular, co-curricular and extracurricular activities within the department.
- To motivate, plan, perform and monitor various activities for performance improvement of students.
- To plan, motivate perform and monitor various activities for improvement of faculty and staff.
- To motivate faculty for research and consultancy work through modernization of lab infrastructure and research projects.
- To ensure the preparation of various reports to be submitted to University, DTE and AICTE etc.
- To propose the requirement of staff and recommend the selection to Principal.
- To execute responsibilities assigned by the University / Institute from time to time.

Academic coordinator

- Planning Infrastructure requirements to conduct the sessions, Annual budget of the department, Faculty and staff requirement, Allocation of teaching load and preparation of timetable, Allocation of roles and responsibilities, Event calendar for the department, workshops, seminars and other co-curricular activities, contents of course file.
- Monitoring Attendance of students and staff, content delivery in classroom and laboratory sessions, Academic performance of faculty, Academic progress of students, Academic resource utilization, and execution of Co-curricular activities.
- To assist the authority to plan, execute and Monitor the curricular, co-curricular and extracurricular activities.
- To mentor faculty, staff and students.
- To execute the responsibilities assigned by authorities.
- Motivate faculty and staff.
- To represent the department in the absence of authority

The institute monitors the quality of teaching in the following ways-

- Academic Co-ordinators regularly monitors teaching-learning process adopted by course teachers. Meetings of different modules are conducted to improve essential domains in the programme.
- Course coordinators conducts meeting with course teachers to plan and execute content delivery before commencement of the each semester on the basis of assessment and evaluation of semester to streamline the teaching process.
- Academic Review Meeting (ARM) is conducted twice a semester to review and ensure completion and progress of teaching learning as per academic calendar.
- Feedback of faculty is taken from the students through ERP, twice a semester. Based on the feedback, HOD gives necessary directions for improvement in the

teaching methods.

- Parent teacher guardian (PTG) monitors the academic performance of 18 to 20 students. Students give feedback/suggestions to PTG direct/indirect way.
- Decision making is supported by analysis of qualitative and quantitative evidences collected through feedbacks and analysis reports of Academic Review Meetings (ARM), Management Review Meetings (MRM), Department Advisory Board (DAB) Meetings and general suggestion from stakeholder.
- HOD, Dean and Principal also monitors the feedback system and counsels the faculty for improvement. Faculty members having excellent feedback are recognized through appreciation.

2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the college in planning and management (recruitment and retention) of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum

| <i>Highest Qualification</i> | <i>Professor</i> | | <i>Associate Professor</i> | | <i>Assistant Professor</i> | | <i>Total</i> |
|----------------------------------|------------------|---------------|----------------------------|---------------|----------------------------|---------------|--------------|
| | <i>Male</i> | <i>Female</i> | <i>Male</i> | <i>Female</i> | <i>Male</i> | <i>Female</i> | |
| <i>Permanent teachers</i> | | | | | | | |
| <i>D.Sc./D.Litt.</i> | | | | | | | |
| <i>Ph.D.</i> | 13 | 04 | 01 | 04 | 02 | 03 | 27 |
| <i>M.Phil</i> | | | | | 01 | 01 | 02 |
| <i>PG</i> | 01 | -- | 10 | 04 | 61 | 81 | 157 |
| <i>Temporary teachers</i> | | | | | | | |
| <i>Ph.D.</i> | -- | -- | -- | -- | -- | 01 | 01 |
| <i>M.Phil</i> | -- | -- | -- | -- | -- | -- | -- |
| <i>PG</i> | -- | -- | -- | -- | 09 | 10 | 19 |
| <i>Part time teachers</i> | | | | | | | |
| <i>Ph.D.</i> | -- | -- | -- | -- | -- | -- | -- |
| <i>M.Phil</i> | -- | -- | -- | -- | -- | -- | -- |
| <i>PG</i> | -- | -- | -- | -- | 10 | 01 | 11 |

Following strategy is adopted by the Institute in planning and management of its human resources to meet the changing requirement of the curriculum.

- The requirements of teaching staff are consolidated by establishment section before start of new academic year.
- Human resources required for teaching are planned as per the academic requirement as per Teaching Load & AICTE norms and put it to Principal for consideration and approval
- While recruiting faculty the institute ensures faculty strength and profile as per AICTE norms.

- Float advertisement in the National Daily News Paper and Institute Web Site
- Applications are invited after the approval for the advertisement by SPPU from eligible candidates.
- Send request to Reservation cell, Employment cell, SPPU, and Tribal Department, Social Department for list of candidate available with them.
- The Internal Interview committee is appointed for scrutiny of applications received and call letters are sent to the eligible candidates for an interview by Register Post.
- The Vice Chancellor appoints the committee consisting of VC Nominee, BC Nominee, subject experts and interviews are conducted by this committee for the eligible scrutinized candidates.
- Prepare and submit Selection Committee Report to SPPU within 72 hrs and receive acknowledgement from SPPU
- Recruitment of faculty as per AICTE norms takes place annually. However, in case of vacancy arising in between two interviews conducted by university, walk in interviews are conducted.
- Advertisement is given in local newspapers for walk in interview. Suitable candidates are selected by Local selection committee formed by the Principal keeping in views university norms.
- Proposal for approval of the teachers is submitted to the SPPU.

In ISO process, Skill matrix of faculty members are analyzed by HOD and identification of skill up-gradation will be done at the end of every semester.

Strategies adopted by the Institute for the retention

- Salaries are offered as per sixth pay scale norms
- Implementing various welfare schemes for faculty such as provident fund, gratuity, group medical insurance, staff cooperative society etc.
- Leaves and vacations are granted as per rules and regulations
- Proper promotion scheme is implemented for internal promotions.
- Deputing faculty for higher studies
- Ample opportunities for Research.
- Nurturing the skills of faculty by deputing or sponsoring for conferences, workshops etc.
- Faculty is appreciated based on their achievement & performance
- Assigning roles and responsibilities for challenging their capabilities and making them strive further.
- Provide freedom for adopting various strategies & innovative process for attaining desired learning outcome
- Providing very conducive environment on campus with transparency and uniformity in all its function.

2.4.2 How does the institution cope with the growing demand / scarcity of qualified

senior faculty to teach new programmes / modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.

In a modern era various new fields of specializations emerge where the students need to be given an exposure to such recent technological advances. To cope up with the demand following measures are taken by the institute.

- The institute promotes existing faculty to do research and solve industrial problems.
- Experts from industry working on state of the art technologies are invited to take guest lectures on special topics/areas.
- Appointment of adjunct faculty from industry/research organizations is also made
- Faculty members are encouraged to have liaison with industry for upgrading their knowledge, skills and making them aware of emerging areas in technology.
- Faculty members are also motivated to do the consultancy work based on the recent technological advances
- Joint research projects between the institute and other industries or research organization are undertaken by faculty members and this helps in teaching UG and PG students.

2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.

a) Nomination to staff development programmes

| Academic Staff Development Programmes | Number of faculty nominated |
|--|------------------------------------|
| Staff training conducted by other institutions | 176 |
| Staff training conducted by the university | 108 |
| Summer / winter schools, workshops, etc. | 56 |
| Refresher courses | 3 |
| HRD programmes | 2 |
| Orientation programmes | 1 |

b) Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

| Teaching learning methods / approaches | Various Tools and Technology |
|---|---|
| Handling new curriculum | Subject Workshops organized in departments/ Participated, Experts Guest Lectures for introducing new curriculum |
| Content / knowledge management | LRDC, Online content management system |
| Selection, development and use of | Soft skills, Add-on courses |

| | |
|---|---|
| enrichment materials Assessment | |
| Cross cutting issues | Mapping of new curriculum by using modern tools, technology, industry exposure, placements |
| Audio Visual Aids /multimedia | LRDC Hall with Audio Visual Facility, Audio Systems , Language Laboratory with personalized training facility, Animation Software |
| OER's | Journal Subscription and NPTEL |
| Teaching learning material development, selection and use | indigenously developed online material |

c) Percentage of faculty

| Sr. No. | Details | Percentage of Faculties |
|---------|--|-------------------------|
| 1 | Invited as resource persons in Workshops / Seminars / Conferences organized by external professional agencies | 40% |
| 2 | Participated in external Workshops / Seminars / Conferences recognized by national / international professional bodies | 97% |
| 3 | Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies | 52% |

Strategies adopted by the institution in enhancing the teacher quality.

- Institute frames and follows the policies for higher education mentioned in ISO Admin module establishment section
- The institute motivates the faculty/staff to take part in development programs conducted at the institute or in other institutes/organizations.
- Special budgetary provision is made under faculty/staff development head to make sure that faculty/staff upgrade themselves by attending various training programs/seminars/workshops/conferences.
- Faculty Counseling after student feedback by HOD, Dean and Principal.

2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)

- The institute motivates the faculty members to prepare research proposals and apply to various funding agencies for grants.
- The institute supports the reimbursement of publishing cost and travel expenses for accepted research papers in International Journals or Conferences

- The institute motivates and sponsors the faculty for attending various Short Term Training Programs/ Faculty Development Programs/ Summer Schools etc. To facilitate this, institute makes a dedicated provision in the institute budget every year.
- The institute organizes excursions and get-togethers for faculty and staff for refreshing their minds.
- Institute has framed and followed the policies regarding research grants, study leave, research publications, consultancy etc. Individual faculty counseling & motivation session with Dean and Principal.
- The institute has formulated policies to grant study leave for the higher study which encourages faculty members to pursue their Ph.D. research at premium institutes. These policies are recommended by local managing committee and approved by governing body of the institute.
- Faculty member are engaged with responsibilities to demonstrate their expertise and enhance their competency.
- Institute has Intellectual Property support policy that supports faculty for filing Intellectual Property.
- Institute has separate budget allocation for Research and Development activities for faculty and students.

2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance / achievement of the faculty.

Following faculty members received the awards / recognition at the state, national and International level for excellence in teaching during the last four years.

| Sr. No. | Name of Faculty | Awards / Recognition | Academic Year | Institute / Organization |
|----------------|---|---|----------------------|---------------------------------------|
| 1 | Prof. S. R. Rawandale | NATIONL LEVEL AWARD “Employability Enunciator of India “Edu India 2016” | 2016-17 | India International Centre, New Delhi |
| 2 | Mr. Amol Suryavanshi & Mr. Nilesh Gaikwad | Dronacharya Award for Best Faculty Advisor at SAE SUPRA - 2016 | 2016-17 | SAE SUPRA |
| 3 | Prof. Ujwal Shirode | Young Research Scientist | 2016-17 | |
| 4 | Dr. Sudeep Thepade | Dr. A.P. J. Abdul Kalam Best teacher award | 2016-17 | IITech, Bangalore |

| | | | | |
|---|--------------------|---|---------|-------------------|
| 5 | Dr. Swati Shinde | Dr. A.P.J Abdul Kalam woman achiever award | 2016-17 | IITech, Bangalore |
| 6 | Dr. S. U. Bhandari | Excellent Teacher Award | 2014-15 | SPPU, Pune |
| 7 | Dr. N. J. Uke | EMC Star Award by EMC ² Academic Alliance, Bangalore | 2014-15 | EMC |
| 8 | Dr. K. Rajeswari | Mission 10x Cambridge Certification | 2012-13 | Wipro Pvt. Ltd |

Following are some of the institutional culture and environment factors that contributed to faculty achievement in respective domain.

- a) Open Culture and conducive environment with infrastructure facility
- b) Motivation and Support from authorities and management,
- c) Guidance from Experts,
- d) Creating opportunities for individuals to prove their capabilities,
- e) Appraisals and appreciations by authorities for the performance of faculty and staff.

2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?

- The institution has established a feedback system for evaluating the performance of teacher by students.
- Students give feedback about their teachers twice in every semester through the ERP system.
- The feedback in charge Consolidate and prioritize students suggestions received in feedback forms
- The feedback report is reviewed by the respective Head, Dean Academics and Principal.
- Inform feedback reports to the faculty and Appreciate faculty having good feedback and Counsel Faculty having unsatisfactory feedback for corrective actions.
- The corrective actions to be taken by the teachers are suggested by Head of Department.

2.5 Evaluation Process and Reforms

2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?

The institute is affiliated to SPPU University, so procedures are followed rigorously as per

the circulars, notifications issued by SPPU website. The circular and notices regarding evaluation are sent to all departments through administration and exam departments. Information circulated among students for the awareness of the fairness and total transparency in the evaluation process.

- Notices/circulars from SPPU regarding evaluation process are displayed on the notice boards and are also conveyed to the students by the class teachers on Google groups.
- Orientation program is conducted at the beginning of academic year for students in First Year engineering where parents and students are made aware of the evaluation processes
- Term work evaluation of students is based on continuous assessment.
- Students are made aware of this assessment scheme in the orientation program is conducted beginning of semester.

Faculty member awareness of the evaluation process

- Induction program for newly appointed faculties are conducted to acquaint faculty to existing internal and external evaluation policies.
- Notices/circulars are circulated to faculty in department meetings and displayed on notice boards and sent by emails.
- Continuous assessment evaluation scheme and assessment methods (Unit test, Theory Assignment, Group Activity) is discussed in Module meetings by the Module and Course coordinators
- Students, faculty, staff and parents are also encouraged to visit SPPU website regularly.
- In addition to the evaluation processes laid down by SPPU, institute also evaluates students on the attainment of learning outcomes.
- Outcome based evaluation methods are also disseminated to students, parents and industry through advisory board meetings organized every year and Parent Meet organized at every semester.
- Faculty members are trained on these evaluation methods during the in-house training programs conducted at department level.

2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?

D) The major evaluation reforms of the university that the institution has adopted over the last four years are as follows:

UG Program

- In 2015 pattern University has introduced Credit System for Undergraduate programmes beginning with F. E. Students
- In 2012 pattern, there was reformation in the evaluation system. The evaluation

pattern now became continuous involving a combination of

- a) Online (MCQ based) and end semester examinations for F.E. and S.E students.
 - b) In semester and end semester examinations for T.E. and B.E students.
- In 2008 pattern, the evaluation for theory was conducted through an end semester examination and evaluation for practical through the term work. Term Work was assessed continuously in the term. In addition, oral, practical examinations, project and seminars are conducted by the university at the end of the semester. (From S.E. to B.E.)

PG Programme

- Revision of curriculum for the academic year 2011-12 and 2013-14 by university.
- University has also introduced Credit System for Post Graduate programmes. The evaluation system involves continuous evaluation in semester assessment, end-semester examinations, oral, practical examinations are conducted by the University at the end of the semester

II) Institute has initiated following evaluation reforms-

- Thorough assessment methodologies adopted in OBE framework as detailed below-
- Direct Assessment Methods (Unit Test, Theory Assignment, Mid-term, etc) and Indirect Assessment Methods (Passing Out survey, Course end survey, Activities etc.) are adopted by the institution to evaluate student's learning outcomes.
- Institute prepares its students for University exams through practice sessions for theory (Unit Tests/mid semester / prelims (F.E)), mock – online examinations, assignments for practice and hands on practice for practical sessions
- Term work evaluation is revised to include project and activity based assessment.

2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?

Effective implementation of the evaluation reforms is ensured in following Manner

At University Level

- For smooth conduct of University exams, the institute has established separate examination section.
- A CEO (Central Examination Officer) is appointed for conducting all SPPU examinations. Online examinations, in semester, end-semester examinations as per the norms and schedule given by the University.
- Institute ensures effective implementation of the evaluation reforms of the University by meticulously following and implementing the ordinances, rules and regulations laid down by SPPU from time to time
- Institute has well established infrastructure to conduct online examinations as

introduced by SPPU during evaluation reforms.

At Institute level

- Effective implementation of evaluation reforms initiated by the institute are ensured by the heads of the respective departments by making faculty, staff and students aware of the reform and monitoring their implementation strictly
- ERP system is used to support reforms.
- Restructuring of internal evaluation has been done by allocating various weightages to various areas for holistic development.
- To support the internal evaluation academic system has been updated.

2.5.4 Provide details on the formative and summative assessment approaches adopted to measure student achievement. Cite a few examples which have positively impacted the system.

The evaluation through these approaches gives insights regarding student performance which helps to identify learning needs and take necessary actions for possible improvement.

Teachers use the formative assessment approaches to modify teaching and learning activities for improving student learning.

| | |
|--|---|
| <p>Formative assessment: is carried out by following ways</p> <ul style="list-style-type: none"> • Online examination for theory • In-semester examination for theory • Continuous assessment for lab work • Project evaluation by industry experts • Unit Test, Mid-Term and End-term Mock Exam • Mock – online examinations • Theory assignments for practice • Extra turns to practice for practical sessions. • Course and Program outcome assessment. | <p>Summative assessment: is carried out by following ways</p> <ul style="list-style-type: none"> • End semester theory examination • Project examination • Oral, Practical examination • Direct Assessment Methods <ul style="list-style-type: none"> ○ Unit Test ○ Theory Assignment ○ Mid-term • Indirect Assessment Methods <ul style="list-style-type: none"> ○ Surveys <ul style="list-style-type: none"> ▪ Passing Out survey ▪ Course exit survey ▪ Alumni Survey ▪ Parent Survey. <p>Activities (Co-Curricular and Extra-curricular)</p> |
|--|---|

2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the

overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.

Internal Assessment is only for term work which is assessed throughout the semester. Assessment scheme is explained to the students to bring in transparency. twice the assessment is done, first at the mid of the semester (Mid-Term for the 50% completion of practical assignments) and then at the end of the semester (End-Term for 100% completion of practical assignments)

Mid-Term Assessment

They are assessed on the basis of following criteria-

- Attendance
- Unit Test-I Marks
- Progressive assessment Marks
 - Timely submission
 - Performance and Understanding
- Mock/Oral Marks

End-Term Assessment

They are assessed on the basis of following criteria-

- Attendance
- Unit Test-II Marks
- Progressive assessment Marks
 - Timely submission
 - Performance and Understanding
- Mock/Oral Marks
- Mid Term Marks
- Activity Marks
- Faculty also discusses pitfalls in performance with students to motivate them to enhance their learning and overcome the shortcomings.
- In each department, final year project reviews are conducted to evaluate the students continuously and inputs are given on their weaknesses and scope for improvement. Students maintain log books or ‘project diary’ with records of their project progress. These books are checked by guides on a regular basis.
- Direct and indirect methods of assessment are used to internally assess and evaluate learning outcomes. The outcome of this assessment is discussed with students.
- Weightages for Direct and Indirect assessments are 60% and 40% respectively in evaluation.

2.5.6 What are the graduate attributes specified by the college/affiliating university? How does the college ensure the attainment of these by the students?

Graduate Attributes (GAs) are the qualities, skills and understanding that an institute agrees its students should develop during their time with the institute. Learning outcomes of the programs i.e. Program outcomes (POs) are defined in line with Graduate attributes

(GAs).

Following Table shows the mapping about how defined POs of IT programme are consistent with the Gas where ‘Y’ shows the corresponding PO is mapped with the respective GA. On similar lines other programme are mapped with GAs to ensure their attainment. Attainment of graduate attributes is assessed through attainment of program outcomes by use of various direct and indirect tools of assessment.

| | a | b | c | d | e | f | g | h | i | j | k | l |
|--|--|---------------------------------------|---|---|--|--|---|---------------------------------------|--|--|--|--------------------------------------|
| POs | Knowledge of IT, Mathematics and Science | Design and analyze real life problems | Implement the basics of system programs | Understand system processor architectures and peripherals | Learning of remote communication and security issues | Implement Software Systems by applying Software Development Life Cycle | Design GUI for Human Computer Interaction | Learn and apply Programming Paradigms | Communicate with Team Spirit and Management Skills | Real life problems with economic, environmental and social constraints with Ethical values | Gain the knowledge on Multidisciplinary Topics | lifelong learning through activities |
| GAs | | | | | | | | | | | | |
| Engineering Knowledge | Y | | Y | Y | Y | | Y | Y | | | | |
| Problem Analysis | | Y | Y | | | Y | | | | | | |
| Design / development of Solutions | | Y | | | | Y | Y | | | Y | | |
| Conduct Investigations of Complex Problems | | | | | | Y | Y | | | Y | Y | |
| Modern Tool usage | | | | | | Y | Y | | | Y | | |
| The Engineer and Society | | | | | | Y | | | | Y | | |
| Environment and Sustainability | | | | | | | | | | Y | | |
| Ethics | | | | | | | | | | Y | | |
| Individual and Team Work | | | | | | Y | | | Y | | | |
| Communication | | | | | | Y | | | Y | | | |
| Project Management and Finance | | | | | | Y | | | Y | | Y | Y |
| Life-long Learning | | | | | | | | | | | Y | Y |

2.5.7 What are the mechanisms for redressal of grievances with reference to evaluation both at the college and University level?

Redressal of grievances is in place at University level and institute level for end semester examinations. The mechanism for redressal of grievances with reference to evaluation is as follows.

Institute level:

- Students are made aware of the assessment methods at the beginning of the semester and whenever necessary
- The assessed answer sheets of internal tests (Unit Test) are given to the students and performance is discussed by the course teacher.
- Students having grievances with the internal evaluation process can directly discuss their doubts individually with respective faculty members
- Students can approach the Head of the Department, in case of any grievances

University level:

Paper setting, conduction of examination, evaluation and declaration of results is done by SPPU.

- After the results are declared by the University, students can apply for photo copy of their answer sheets.
- If the student has grievance after receiving photo copy of answer sheet, then he/she can apply for reevaluation.

2.6 Student performance and Learning Outcomes

2.6.1 Does the college have clearly stated learning outcomes? If 'yes' give details on how the students and staff are made aware of these?

Yes, the institute has clearly stated the learning outcomes for each academic program (Programme Outcomes (PO)) and each course (Course Outcomes (CO)). However our faculty members have identified some outcomes considering consistency to Vision and Mission of the department. The POs define the abilities of the students of that program expected at the time of graduation and COs are the learning outcomes that the students imbibe at the end of each course.

The program outcomes of the department are disseminated to all the stakeholders through following media:

- a) Institute Website:** The POs are published through college website www.pccoepune.com to disseminate among the stakeholders.
- b) At appropriate curriculum documents:** The POs are published in academic manuals, printed lab manuals, handouts, log-book, course files, etc. and disseminated amongst students and faculty members.
- c) At appropriate places in the department:** The POs are published at various places

- like the entrance of the department, office of the head of the department, staff room, classrooms and corridors and disseminated amongst all the stakeholders.
- d) **Induction Programme:** The Induction programme is taken at the start of each semester, in which the head of the department and academic coordinators address the students regarding Vision, Mission, Goals, PEOs and POs of the department.
 - e) **News wire:** Institute level six monthly bulletin highlighting the special achievements and contribution of faculty, staff and students towards the four pillars viz. academics, research, student development and social concern and thus reflecting the overall development of students and also the progress of college. All Department level initiatives towards improvement of these four pillars along with their POs are also disseminated through News wire.
 - f) **Industry Institute Meet:** Every year, college organizes industry institute interaction meet in which the employer's expectation from students like technical competence, aptitude, communication, confidence, attitude, etc. are discussed amongst training & placement officers and HR of company and based on their feedback the expected skill sets and attributes are imbibed in students.
 - g) **Parent Meet:** The parents meet is conducted once in semester for parents of SE, TE and BE students to inform them about departmental goals and activities carried out for students and discuss student performance in terms of academics, ethical and societal values, overall attitude, communication skills, confidence and behaviour in department and get feedback from parents in this regard. The POs are disseminated to the parents during such meetings.

2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/programme? Provide an analysis of the students results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes/courses offered.

Institution has a well-defined process to monitor the progress and performance of students implemented at department level. All departments follow this process and communicate this to their parents at regular intervals.

Performance Monitoring: Student academic performance is monitored by two mechanisms.

Continuous internal assessment

- It includes unit tests, and continuous assessment for practical, theory assignments, mock practical, oral exams etc.
- A well-defined process of academic monitoring is implemented through ERP and duly supported by ARM. Performance in internal assessment is entered in ERP and used as feedback to improve academic progress. Based on the performance in internal assessment, preventive and corrective actions are taken on non-performing

students by the faculty teaching the course.

- Remedial actions are planned and executed for the slow learners or academically weak students. These actions are makeup test, remedial lectures, counseling, various activities such as presentations, group discussions, mock interviews, quiz, open book tests, role plays, case study competitions etc through which learning can be improved.
- Good academic performers are also identified and are further motivated to enhance their performance still better.
- These actions/ strategies are arrived at, in the course coordinator meetings with the faculty teaching the specific course.

Performance Communication:

- Performance assessment is displayed and discussed with students regularly as an indicator for self-analysis and improvement.
- Results of internal exams such as unit tests are displayed on the notice board whereas results of in-semester exams and end-semester exams are declared by University every semester.
- Parent meet is conducted in each semester to communicate about the overall progress of each student to their parent.
- The results are available online on university website and in the form of hard copy at the institute.
- Detailed result analysis with identified trends and patterns of every programme is presented in the ARM meetings and MRM meetings.
- Attendance is the most important parameter which impacts the performance of the students and is monitored through ERP. Student can check his attendance online through ERP.
- Frequently every fortnight attendance report is displayed to the students and also conveyed to the parents time to time.
- At the end of every semester, attendance issues are communicated to parents through letter and SMS.

The results of all programmes are shown in table below.

Table 2.8 Result Analysis for last four years

| Dept | Class | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|------|-------|---------|---------|---------|---------|
| MECH | SE | 60.06 | 72.29 | 82.59 | 62.58 |
| | TE | 51.92 | 60.58 | 83.48 | 49.35 |
| | BE | 94.31 | 95.09 | 95.72 | 81.36 |
| E&TC | SE | 63.58 | 78.65 | 80.19 | 74.2 |
| | TE | 69.86 | 69 | 87.8 | 73.09 |
| | BE | 98.83 | 97.75 | 100 | 95.71 |

| | | | | | |
|--------------|---------------------|-------|-------|-------|-------|
| COMP | SE | 61.5 | 83.33 | 83 | 80.33 |
| | TE | 74.5 | 66 | 88 | 79 |
| | BE | 95.5 | 91 | 99 | 95 |
| IT | SE | 90 | 84 | 80 | 81.57 |
| | TE | 78.87 | 71 | 90 | 75 |
| | BE | 93.84 | 100 | 100 | 100 |
| CIVIL | SE | NA | 69.33 | 73.33 | 76.32 |
| | TE | NA | NA | 60.87 | 58.9 |
| | BE | NA | NA | NA | 94.2 |
| FE | FE Reg. | 71.6 | 74.8 | 73.4 | 47.8 |
| | FE Shift | 71.1 | 71.84 | 72.1 | |
| MBA | MBA 1 st | 94 | 50 | 69.23 | |
| | MBA 2 nd | 94.73 | 89 | 85 | |
| MCA | MCA 1 st | 70.69 | 74 | 68 | |
| | MCA 2 nd | 49 | 63.38 | 35.09 | |
| | MCA 3 rd | 100 | 100 | 100 | |

2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes?

The teaching, learning and assessment strategies are structured to facilitate the achievement of the intended learning outcomes. Effective delivery of course contents through various delivery methods contributes to the attainment of learning outcomes which directly contributes towards the attainment of programme outcomes. The appropriate content delivery methods are used as mentioned in point 2.3.8 in order to meet the Course Outcomes as follows.

The effectiveness of conduction of the courses is enhanced by the implementation of the specified delivery methods or changing/ selecting appropriate content delivery method based on previous experiences.

For the effectiveness of Content Delivery Methods, strong Teaching-Learning process is adopted. The course files reflect the academic process with the following contents:

- University Syllabus indicating Course Outcomes
- Set of University Question papers
- University result analysis of last three years
- Teaching plan , Practical planner
- Attendance records
- Progressive assessment sheet
- Theory assignments

- Unit test question paper, Mark sheets
- Midterm, End term assessment sheet
- Remedial test and mark sheet
- Notes/PPT/Material referred by faculty
- Content Beyond Syllabus reports
- Guest lecture summary
- Tutorial report

The effectiveness of above content delivery methods for the attainment of learning outcomes is assessed through following documents:-

Assessment sheets for internal examinations:

- The Unit Tests result analysis
- Theory Assignments assessments
- Midterm Practical mock examination assessments
- End term Practical mock examination assessments
- Result of any other assessment method.

Assessment sheets for external examinations (University exams):

- On line University Exam result analysis
- In-semester University Examinations result analysis
- University Theory Examination result analysis
- Result of University Practical/Oral Examination.

2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?

Following Initiatives are taken by the Institute to enhance the social and economic relevance of the courses offered

Placement Initiatives

- Training & Placement cell at the institute trains the students for placement and helps them to develop an all-round personality by conducting a variety of sessions on aptitude training, soft skills and also special training courses organized by reputed companies like KPIT, Infosys, and TCS etc.
- A language laboratory with special facilities is available for the students to enhance communication skills
- Institute has signed Memorandum of Understanding (MOUs) with many leading industries /organizations
- Institute deputed the students for internship programs to industries and institutes of repute

Entrepreneurship Initiatives

- Institute has Entrepreneurship Development Cell (EDC) to develop

entrepreneurship qualities in students to launch their startups.

- EDC cell organized different events such as Business Bazzigar which provides the platform to the students to reveal their talents and also provides a platform to interact with reputed entrepreneurs

Innovation and research aptitude Initiatives

- Institute has active Research and Development Cell which plays an active role in improving the quality of research work.
- Students are also exposed about latest trends in development, patenting procedures through guest lectures and workshops by eminent academicians and industry experts.
- Institute encourages the final year students to select their projects addressing social issues and is provide with the financial assistance for such innovative projects.
- Institute has adequate online and offline learning resources available in the library for teaching, learning as well as research
- Institute organizes technical paper presentation and project competitions providing a platform for students which help them inculcate a professional approach and imbibe ethical engineering practices.
- Students are encouraged to participate in state/ national/international technical events like Avishkar, Robotics, SAE Supra, SAE BAJA etc.
- The Institute has established a National Service Scheme (NSS) which strives to work for the development of the society. Institute has selected a village Yelse, near Mulshi, for various social development activities.

2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?

- The institute is ISO 9001:2008 certified. Quality objectives are set for every department. Internal ISO audits are conducted in every semester. Non- conformance in student performance is identified by auditors and addressed by the department with corrective action. Thus, ISO audits play a vital role in identifying barriers and taking preventive and corrective actions accordingly.
- The program outcomes are the capabilities of graduating student in terms of knowledge, skill and attitude are assessed through direct assessment tools internally developed assessment exams, project exams, technical seminars, University exams, practical, oral exams etc. as well as indirect assessment tools like End Course Survey, Exit Survey, Project Feedback etc. carried out annually/per semester.
- Data collected using these tools are analyzed at department and institute level. Academic Review Meeting (ARM) and IQAC deliberate on the detailed result and placement analysis to plan for improving the student performance and learning.
- Student performance is assessed, based on result, placement, research and social contributions. Detailed result analysis is carried out. Training and placement cell of

institute registers the interested students. Cell collects data from all the students, keeps records of placement centrally as well as sends the updates to every programme regularly.

- Feedback from the employers, teachers, parents and student is used to identify barriers of learning like understanding, visualization, communication (written and oral), mathematical, psychological, socio-economical, physical etc.
- In addition to remedial classes and personal counseling through regular meetings with parent teacher guardian, parents, class-teacher and counselor is carried out to overcome these barriers.
- Training programs on soft skills, aptitude and technical skills are also conducted for the same.
- Planned and systematic efforts at department and institute level have resulted in meaningful collaborations with industries and research organizations.
- Many faculties have created their Blogs, where they provide study material to the students for self-learning
- The curriculum does not cover all the assignments related to the latest technologies. Thus institute has taken an initiative to overcome this gap by arranging add on courses by leading industries like IBM, Microsoft, Infosys Campus connect, etc.
- Soft skills and life-long learning skills are not being attained satisfactorily through present curriculum. Training and Placement Cell of the institute organizes professional training for students to help them in writing resume, facing interviews and improving their soft skills.
- At department level, students are encouraged to participate in various extra and co-curricular activities organized by respective department student chapter of the institute or other institutes.
- Parent, employer and alumni: This analysis and their suggestions are used for the improvement of teaching learning process and to overcome the gaps between industry and academia. All direct and indirect assessment tools are rigorously used by course coordinators of all programs throughout the semester.
- The attainment of program outcomes is computed for every course through direct assessment and indirect tools with appropriate weight age. Direct assessment tools are given more weight age whereas indirect tools have less weight age.
- The consolidated PO attainment is presented in front of PAC (Programme Assessment Committee) and then DAC (Departmental Advisory Board).The suggestions by PAC and DAC are used for overcoming barriers of attainment of POs.
- During the placement activities, feedback on student performance is taken from the employers. Also, in the HR meet, the input is taken from the HRs related to current trends and requirements from the industry. After the analysis of all the feedback, training needs are identified and accordingly training sessions are planned and conducted.

2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

A systematic mechanism is established in the institute to monitor processes of learning outcomes and its achievement. Regular monitoring of these processes is done by following ways.

- Internal ISO audits are conducted in every semester. Non-conformance in student performance is identified by auditors and addressed by the department with corrective action. Thus, ISO audits play a vital role in identifying barriers and taking preventive and corrective actions accordingly.
- Academic Review Meeting (ARM) and IQAC deliberate on the detailed result and placement analysis to plan for improving the student performance and learning.
- The attainment of program outcomes is computed for every course through direct assessment and indirect tools with appropriate weight age. Direct assessment tools are given 60% weight age whereas indirect tools have 40% weight age.
- Module coordinator consolidates the attainment of POs from all the related courses and prepares the final attainment report. The consolidated PO attainment is presented in front of PAC (Programme Assessment Committee) and then DAC (Departmental Advisory Board).

2.6.7 Does the institution and individual teachers use assessment/evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If 'yes' provide details on the process and cite a few examples.

Yes, the institution and teachers make use of these outcomes as an indicator for evaluating student performance.

- Indicators to Institute: Vision and Mission of the institute are highly correlated with the Programme Educational Objectives (PEOs) of each department, which in turn are mapped to Program outcomes.
- Therefore, PO and PEO attainment indicate the alignment of academic activities with the vision and mission of the Institute.
- Indicators to department: POs are also aligned with the Graduate Attributes that a student is expected to develop on completion of the program. Their attainment or lack of it helps in aligning the activities of the department.
- Indicators to teachers: Results of formative and summative assessment methods are the major indicators for evaluating student performance.
- Results of formative methods are used by the respective course teachers as a feedback on student performance during the semester. Non performing students are identified and for them remedial classes, Makeup test are planned, so that students can improve

their performance in summative exams.

- If a student scores less marks in in-Semester or On-line exam, course teacher prepares them for summative exams by putting extra efforts by means of corrective action (Extra sessions for theory/practical). Course teacher also plans and executes preventive actions (University paper solving, Mock Oral and Practical exams) so that non-performers of formative exams can improve their performance.
- Results of summative methods are used by the course teacher to improve the performance in the same course for the next batch of students. Non-performers of summative exams are also addressed by taking appropriate action.
- If performance of particular course is not satisfactory, course teacher analyses reasons behind it and accordingly plans the contents and sessions for the next batch through the interactions with the course teachers. Every course coordinator determines contribution of their course in PO attainment in terms of Strong, moderate and low.
- Low to medium level contribution of course in PO attainments indicates the scope for improvement of student performance. Accordingly, action plan is executed by the course coordinator. This process is carried out in each semester by course coordinator and monitored by Module coordinators.
- Final attainment level of any PO is also an indicator for evaluating student performance. Module coordinator consolidates the PO attainment for respective modules which is monitored by PAC.
- Report of PAC on achievement of POs is presented to DAC which gives suggestions for improvements if required such as encouraging students to participate in different co-curricular and extra-curricular activities.



CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

3.1 Promotion of Research

3.1.1 Does the institution have recognized research center/s of the affiliating University or any other agency/organization?

The institute has applied for recognized research centers affiliated to SPPU, Pune for following branches:

- Electronics and Telecommunication Engineering
- Computer Engineering and
- Mechanical Engineering

The local inspection committee (LIC), appointed by the university for approving research center at PCCOE, has visited the institute on 27th Feb. 2017. These research centers will offer guidance to doctoral students through experienced and approved research guides associated with the respective centers having State of the Art infrastructural facilities. Support and assistance to research scholars will be provided so as to channelize the research efforts in proper directions with set objectives.

3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, what is its composition? Mention a few recommendations made by the committee for implementation and their impact.

Yes, the Institute has research and development (R&D) cell / committee to promote, guide, monitor and address the issues regarding R & D. The Cell is headed by Dean, R&D.

Role of the Committee

- The committee plays the crucial role of inculcating and promoting innovation & research.
- It nurtures the potential ideas of the students/faculty and helps them in publications in Research Journals, Presentations in Conferences and filing the patents/copyrights.
- It helps to elevate the alertness of funding opportunities to support R & D and looks after the processes related to externally funded/ sponsored / consultancy projects.
- It helps to apply for conference travel funding for faculty and research scholars and also support financial assistance in terms of registration fees reimbursement, hosting research conferences, seminars and workshops.

The composition of research committee is given in Table 3.1.2 (a)

Table 3.1.2 (a) Composition of Research Committee

| Name of the Committee | Composition |
|----------------------------------|--|
| Research Committee | Dean R&D Research Coordinators of the departments |
| Research Committee for reviewing | Dean R&D. Experts in respective domains |

| | |
|---|---|
| Internal PhD Research Scholar Progress and PG students. | and HODs. |
| Research Review Committee for reviewing PG Dissertations. | Dean R&D, HOD, PG Coordinator, Guide and Experts. |

Few of the recommendations proposed and implemented with their impacts are highlighted in Table 3.1.2 (b)

Table 3.1.2 (b) Recommendations and their Impacts

| Recommendation | | |
|-----------------------|---|---|
| Sr. No. | Implementation | Impacts |
| 1 | Recommendation :Allocation of budget to enhance research facilities | |
| | Institute allocates separate funds for R&D promotional activities. | <ul style="list-style-type: none"> ▪ Budgets are utilized satisfactory. ▪ For UG & PG students research avenues have increased. ▪ ICCUBEA- International Conference Annually organised. ▪ Innovia Research competitions annually organised. ▪ cPGCON- PG Computer Engineering Research Conference is organised. ▪ Avishkar –University-Zonal level Awareness and competition is organised. ▪ Continual basis Awareness sessions are conducted. |
| 2 | Recommendation: Allocate funds for various faculty research projects and awareness sessions. | |
| | Institute started allocating the funds for the research projects and awareness sessions | <ul style="list-style-type: none"> ▪ Number of faculty undertaking research increased. ▪ Faculty enrolled for PhD increased. ▪ Experimental set ups/ test rigs developed. |
| 3 | Recommendation : Improve the quality of R & D Outcomes | |
| | Technical project reviews are conducted regularly. Faculty and students are motivated to publish the research work in reputed journals and conference proceedings or file the patents/copyrights. | <ul style="list-style-type: none"> ▪ PG Projects get appreciated in the Conferences. ▪ Increase in Quality Publications. ▪ Good No of patents are filed by students and faculty. |
| 4 | Recommendation : Initiate linkage and collaborative R & D efforts in association with Industry/ Academic Institutions / research organizations | |
| | Dean R&D and his team is instrumental in approaching | <ul style="list-style-type: none"> ▪ Product Innovation lab is set up with 3DPLM |

| | | |
|---|---|---|
| | the industries in order to enhance the research avenues for the students and the faculty | <ul style="list-style-type: none"> ▪ Metrology lab upgraded in association with Baker gauges. ▪ e-Yantra laboratory established with initiative of IIT Bombay. ▪ IBM Centre of Excellence established. ▪ Creospan joint program started |
| 5 | Recommendation : Motivate and support faculty and students to pursue higher education | |
| | For students, Institute has established a higher study cell that promotes this activity. Faculty members are encouraged to undergo the higher studies | <ul style="list-style-type: none"> ▪ All the faculty members have a PG degree and about 30 faculty are PhD qualified. 34 faculty members are pursuing PhD |
| 6 | Recommendation : Inculcate IPR culture | |
| | Institute is establishing IP cell shortly | <ul style="list-style-type: none"> ▪ Intellectual Property will be registered through IP cell. |

3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?

- *autonomy to the principal investigator*
- *timely availability or release of resources*
- *adequate infrastructure and human resources*
- *time-off, reduced teaching load, special leave etc. to teachers*
- *support in terms of technology and information needs facilitate timely auditing and submission of utilization certificate to the funding authorities*
- *any other*

Following are the various measures taken for the smooth progress and implementation of research scheme/ projects.

- **Autonomy to principal investigator:** The principal investigator is provided with freedom and encouragement to do the needful as per the project scheme guidelines
- **Timely availability or release of resources:** The requisitions by principal investigators are processed with priority so that all the necessary resources are made available in time. Additional grants are provided by the institute for research if required.
- **Adequate infrastructure and human resources:** There is adequate availability of software, hardware, networking and computing facilities along with other supporting equipment, manpower for any assistance at institute. All these resources are made available to principal investigators/researchers/faculty and students.
- **Time-off, reduced teaching load, special leave etc. to teachers:** Faculty members

who have undertaken research projects are provided with a comfortable environment, where project could be completed well in time and as per the expectations. Special leaves are also granted to Ph.D. pursuing faculties based on need particularly at the time of course work, presenting papers at national and international conferences.

- **Support in terms of technology and information needs:** Institute identifies the people and resources to guide researchers. Furthermore, Institute also identifies relevant tools and resources on campus.
- **Any other**
 - This Institute ensures availability of research coordinators for any support requested by investigators for smooth progress of their research project.
 - Establishment of periodic review system to track the progress of research project and providing the suggestion in terms of technical resource and relevant research tools, equipment and softwares like Statistica, MATLAB.etc available in the institute.
 - Procurement of equipment and sanctioning of funds required for the research projects is done through the set procedures.

All the above measures and set policy helps in smooth progress of research projects.

3.1.4 What are the efforts made by the institution in developing scientific temper and research culture and aptitude among students?

The institute has devised a mechanism to inculcate and promote research culture amongst faculty and students through Special Interest Groups (SIGs). The R&D department coordinator looks after the SIGs activity. Faculty members and students as per their interest get involved in SIG's. The Under Graduate (UG) and Post Graduate (PG) student projects categorized based on the SIGs, identify the research components and then nurture the research skills of the students. Such projects are further taken up to achieve quality outcomes in the form of good publications and filing the patents. Some of the prominent activities are listed as follows:

- **Awareness and motivational sessions**
 - Innovation awareness programme is conducted for all the first year students.
 - Expert sessions, webinars and motivational sessions by eminent speakers from research organizations, Industry and academia addressing the current technology, national themes, societal issues and global challenges are regularly organized.
- **Research Projects:** Institute promotes student projects which addresses solutions to industrial problems, societal issues, environmental issues, health related problems, Smart city support etc.
- **Organization of Research Symposium:** The Institute organizes research symposium which helps in inculcating the research culture and encouraging the quality publications.
 - ICCUBEA International Conferences

- PGCON (Post Graduate Computer Engg. Conf.) Conference
- National Seminar on Innovations and New Product Development
- Technical symposium at institute annual event- Techlligent, Inesperia, Spectrum, Innovia that comprises Seminar and Technical paper presentations, quiz, projects and programming contests, robotics competitions to storm students' brains beyond threshold and to infuse critical thinking.
- Avishkar-Zonal level University Research Competition
- **Skill Upgradation and Exposure to Real World:** The Institute believes in developing students and faculty with the ability of all-round capabilities. Following are regular practices through which the skills are enhanced.
 - Study tours, industrial visits, field trips and surveys organized every year to inculcate a sense of scientific temper and research culture.
 - Organization of ISTE, SPPU sponsored and approved FDP in upgrading technical skills at regular intervals.
 - Organization of various programs on research methodology, technical writing skills, IPR etc.
 - Students are encouraged to participate in various external competitions like Avishkar, project and paper presentation to show case their research ideas.
- **Other**

Institute takes all possible efforts in developing scientific temper and research culture and aptitude among students. Few of them listed below

 - Innovation center is established and made available 24 X 7.
 - To advocate the research and innovations, faculty members identify the topics relevant to their respective domains and assigns topics for the activity based learning.
 - Conduction of laboratory work beyond that syllabus is a common practice followed by all the departments.
 - Project based learning enhances the research aptitude among students.
 - Financial assistance and due consideration in the academics given to students for participation in inter collegiate research events, seminars, conferences project / prototype competitions at national / international level.
 - Involvement of PG students in externally funded projects.

Appreciation of student research work through medals, certificates, cash prizes in Annual Social Gathering.

3.1.5 Give details of the faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc.

Faculty members are actively involved in different research activities. Details of the major research activities are listed below:

- 1) **Guiding Research Scholars:** Experienced faculty members of the Institute are

guiding the student research activities as shown in Table 3.1.5 (i).

Table 3.1.5 (i) Faculty Guiding Research Scholars

| Sr. No | Name of the Faculty Member | Department | No. of Research Scholars | |
|--------|----------------------------|------------|--------------------------|----------|
| | | | Enrolled | Enrolled |
| 1 | Dr. A.M. Fulambarkar | Mechanical | 4 | - |
| 2 | Dr. P.J. Awasare | Mechanical | 1 | 2 |
| 3 | Dr. S.S. Lakade | Mechanical | 1 | - |
| 4 | Dr. N.B. Choapde | E&Tc | 3 | 1 |
| 5 | Dr. K.S. Kinge | E&Tc | 1 | - |
| 6 | Dr. M.T. Kolte | E&Tc | 5 | 3 |
| 7 | Dr. S. D. Thepade | IT | 1 | - |
| 8 | Dr. N.J. Uke | IT | 3 | - |
| 9 | Dr. S T Mali | Civil | 1 | - |

2) Faculty engaged in individual/ collaborative research:

Table 3.1.5 (ii) elaborates the research work carried out by the faculty.

3.1.5 (ii) Individual / Collaborative research of Faculty

| Sr. No. | Department | Individual | | Collaborative | | No. of Faculty engaged |
|---------|------------|------------|-----------|---------------|-----------|------------------------|
| | | Ongoing | Completed | Ongoing | Completed | |
| 1 | Mechanical | 14 | 06 | 03 | 04 | 27 |
| 2 | Computer | 04 | 03 | 03 | 09 | 10 |
| 3 | E&Tc | 07 | 04 | 04 | 01 | 7 |
| 4 | IT | 02 | 03 | 03 | 02 | 09 |
| 5 | Civil | 02 | 01 | 01 | 02 | 05 |
| 6 | MBA | 04 | 02 | 00 | -- | 04 |
| 7 | MCA | -- | -- | -- | 01 | 02 |

3) Department wise Major Research Projects

Table 3. 4.5 (iii) gives details of major sponsored research projects in the institute.

Table 3.1.5 (iii) Major Research Projects

| Sr. No. | Department | Number of Major Research Projects |
|---------|------------------------|-----------------------------------|
| 1. | Mechanical | 9 |
| 2. | Computer | 4 |
| 3. | E&Tc | 4 |
| 4. | Information Technology | 4 |
| 5. | Civil | 2 |
| 6. | MCA | 1 |

3.1.6 Give details of workshops/ training programmes/sensitization programmes conducted/organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.

The SIG's of all Departments of the institute have always remained enthusiastic to arrange training programs, technical workshops, which help academicians and students for continual up-gradation of their knowledge through knowledge exchange programs. Most of these programs are organized in association with industry/professional bodies with financial support from different funding agencies. In addition, to these national and international research symposiums/ conferences were organized during the last 4 years and focusing on capacity building in term of imbibing research among SIG's members. Details of workshop/ training programmes conducted for faculty and staff are given in table 3.1.6 (i).

Table 3. 1.6 (i) Programmes organized for Faculty and staff

| Sr. No. | Department | Conferences | | Workshop | Training/ Sensitization Programme |
|---------|------------|---------------|----------|----------|-----------------------------------|
| | | International | National | | |
| 1 | Mechanical | 01 | 01 | 03 | 03 |
| 2 | Computer | 02 | 01 | 02 | 01 |
| 3 | E& Tc | 02 | 01 | 02 | 02 |
| 4 | IT | 02 | 01 | 01 | 06 |
| 5 | Civil | - | - | 01 | 01 |
| 6 | MCA | - | - | 03 | 03 |

Details of workshop/ training programmes organized for students are shown in Table 3.16 (ii).

Table 3.1.6 (ii) Programmes organized for Students

| Sr. No. | Department | Workshop | Expert Lecture | Training/ Sensitization Programme |
|---------|------------|----------|----------------|-----------------------------------|
| 1 | Mechanical | 04 | 27 | 03 |
| 2 | Computer | 02 | 24 | 01 |
| 3 | E&Tc | 04 | 20 | 05 |
| 4 | IT | 02 | 33 | 02 |
| 5 | Civil | 02 | 18 | 02 |
| 6 | MBA | 01 | 26 | -- |
| 7 | MCA | 13 | 12 | 06 |

3.1.7 Provide details of prioritised research areas and the expertise available with the institution.

All the departments have thoughtfully identified prioritized thrust research areas depending on the faculty expertise and research work done in the same domain during last few years. The senior faculty of the department did the analysis of the thrust areas based on the national and international relevance and/or challenges of the domain. Based on the thrust area, the SIG's are formed in all the departments. Faculty members

are working coherently in different research areas as per SIG's along with students to provide a solution to the societal problems identified such as health domain, physically challenged persons. The prioritized research areas as per SIG's and faculty In charges are given in Table 3.1.7.

Table 3.1.7: Prioritized research areas

| Sr. No | SIG's | SIG's In charge |
|--|---|------------------------|
| Department of Mechanical Engineering | | |
| 1 | Stress Analysis & NVH | Dr. P.J. Awasare |
| 2 | Thermo – Fluidics | Dr. N.R. Deore |
| 3 | CAE & Robotics | Mr. S.B. Matekar |
| 4 | Sustainable Energy Technologies | Dr. Anindita Roy |
| 5 | Production Engg | Dr. S.S. Lakade |
| Department of Electronics and Telecommunication Engineering | | |
| 1 | VLSI & Embedded system | Dr. M. T Kolte |
| 2 | Signal Processing | Dr. K. S. Kinge |
| 3 | Process Automation & Non-conventional Energy Sources | Mrs. R. S. Kad |
| 4 | Communication | G.R. Rahate |
| Department of Computer Engineering | | |
| 1 | High Performance and Scientific Computing(HPSC) | Dr. J S Umale |
| 2 | Communication and Networking(CN) | Dr. Sonali Patil |
| 3 | Visual Computing(VC) | Dr. P R Futane |
| 4 | Data Science and Knowledge Engineering(DSKE) | Dr. A D Thakare |
| 5 | Smart System (SS) | Dr. Rajeswari |
| Department of Information Technology | | |
| 1 | Video, Image, Biometric Enhancements (VIBE) | Dr. S.D. Thepade |
| 2 | Computer Network and Security (CNS) | Mrs. J.V. Katti |
| 3 | Social, Mobile, Analytics, Cloud (SMAC) | Dr. N.J.Uke |
| Department of Civil Engineering | | |
| 1 | Municipal Solid Waste Treatment and Energy Generation | Dr. S T Mali |

| | | |
|------------|--------------------------------------|----------------------|
| 2 | Hydro-Climatology | Mrs. S S Motegaonkar |
| 3 | Optimization of Dispatching Schedule | Mr. A K Gaikwad |
| MCA | | |
| 1 | Data Mining | Prof Bali khurana |
| 2 | Application Development | Prof. Anand Jain |

3.1.8 Enumerate the efforts of the institution in attracting researchers of eminence to visit the campus and interact with teachers and students?

Institute takes lots of efforts to nurture the research activities by identifying the researchers of eminence as per the SIG's. The researchers, experts and industry professionals do visit the institute on a regular basis for interaction with faculty and students and enhancing the R&D activities. More than 174 experts have visited the institute during the last 4 years. The organization of various workshop/ seminars/ conferences by the SIG's is the regular phenomenon in the institute. Following are the researchers of eminence, who have visited the institute and guided the audience of various research programs organized by the institute such as ICCUBEA, cPGCON, Spectrum .etc as shown in table 3.1.8

| Sr. No | Researchers of Eminence | Designation |
|---------------|--------------------------------|--|
| 1 | Pad. Vijay Bhatkar | Ex- Director, CDAC, Chancellor of India International Multiversity, Chairman of ETH Research Lab, Chief Mentor of I2IT, and National President of Vijnan Bharati |
| 2 | Dr. Wasudeo Gade | Vice Chancellor, Savitribai Phule Pune University, Pune |
| 3 | Dr. Surendra Pal | Vice Chancellor, DIAT, Pune |
| 4 | Dr. Madria Sanjay | Professor, Computer Science, Missouri University of Science and Technology, Rolla, USA |
| 5 | David Hudson | Tata Motors, United Kingdom |
| 6 | Dr. Sachin Loddha | Senior Scientist, Tata Research Design and Development Center (TRDDC), Pune |
| 7 | Dr. Maher P C | Professor, STU University Singapore |
| 8 | Dr. Sasikumar | Associate Director, CDAC |
| 9 | Dr. Nagchandhani | Professor Emirtus, IIT, Delhi |
| 10 | Dr. Aditya Abhyankar | Dean, Faculty of Technology, Savitribai Phule Pune University, Pune |

| | | |
|----|----------------------------|--|
| 11 | Dr. Rajesh Ingle | IEEE, Pune Section Conference Chair |
| 12 | Dr. R K Shyamsundar | Senior Professor, Tata Institute of Fundamental Research, Pune |
| 13 | Dr. G S Mani | Scientist, DRDO |
| 14 | Dr. Mohammad Hassan | Professor, Dept of E&Tc, Aligarh Muslim University, UP |
| 15 | Dr. Deepankar Nagchaudhari | Ex-Professor, IIT Delhi |
| 16 | Dr. Shashank Pujari | Ex-Director, SU IIT, Sambalpur, Orissa |
| 17 | Dr Vishwas Udpikar | CEO, Wavelet Technologies Pvt Ltd |
| 18 | Dr. Mehta | Professor, NID Ahmdabad |
| 19 | Dr. Bapat | Cordinator, IIT Powai Design Centre |
| 20 | Prof. S. B. Kedare | IIT Powai |
| 21 | Mr. Anant Patki | Scientist, ISRO |
| 22 | Mr. Xavier | Global head Academics, Dassault System France |
| 23 | Mr. Pravin Rajpal | CEO, Innovation next Gurgaon |

3.1.9 What percentage of the faculty has utilized Sabbatical Leave for research activities? How has the provision contributed to improve the quality of research and imbibe research culture on the campus?

The Institute has always supported to the faculty and staff for the research activities in following ways.

- Deputation of faculty for attending various conferences, STTPs, Workshops organized at National/ International levels.
- Permissions to the faculty pursuing PhD and PG during their course work and field work.

Leaves for the industry institute interaction for the research, consultancy and field work of sponsored projects from various funding agencies.

3.1.10 Provide details of the initiatives taken up by the institution in creating awareness/advocating/transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)

- The R&D cell and all the SIGs organize various expert lectures by eminent personalities from Academia and Industries to bring out the awareness about the recent advances in the respective field.
- Various technical events such as symposium, competitions are organized by the Institute in association with professional bodies. The students get an opportunity to showcase the findings of their research in front of the panel of experts from Industries and academia.
- Oral presentations are organized which are jointly assessed by the senior faculty and Adjunct faculty from Industry. These sessions serve as a knowledge sharing platform for research activities.

- For the conduction of research/ project, Institute provides the seed money to the faculty and students. Also for the participation in the conference, workshops, symposium the Institute provides the financial support.
- Students are motivated to undertake and handle the real life projects useful to the society or industry under the guidance of faculty.
- Industry sponsored Projects at UG & PG level.
- Faculty shares the outcome of their research at UG, PG level to the students for projects, Mini-projects and seminars
- SIG's shares the research findings with the industries and linkages are established for eg. MASTRANS.

Table 3.1.10 gives details of few Labs to Land Projects handled by the faculty and students.

Table 3.1.10 Lab to Land Projects during last four years

| Sr. No. | Title of the Lab to Land Project | Faculty Involved |
|---------|---|----------------------------------|
| 1 | Automation in Braided wire cutting & M I Rod Straightening & cutting methodology for thermocouple production unit | Dr. S.S. Lakade |
| 2 | Analysis of flow of hot gases over clutch plate of 16MnCr5, and design and development of pallet for enhanced heat transfer rat | Dr. N.R. Deore |
| 3 | Design and development of Hydraulic Rotational Jib Crane | Dr. S.S. Lakade |
| 4 | Ergonomic design and human safety aspects in a press and tool shop with effective use of available resources | A.A. Panchwadkar |
| 5 | Auto farmer using Renewable energy. | A.R. Suryawanshi |
| 6 | FPGA based Universal ATM Card | Mr. U.R. Shirode |
| 7 | Automation for sustainable water supply distribution using PLC and SCADA | Mrs. A.M. Ekbote |
| 8 | Aadhar card based rationing system | Mrs. J.S. Kulkarni |
| 9 | Thepade's Transform Error Vector Rotation (TTEVR) Codebook Generation Algorithm | Dr. S.D.Thepade |
| 10 | Thepade's Sorted n-Ary Block Truncation Coding(TSnBTC) | Dr. S.D.Thepade |
| 11 | Design and development of formula 1 car with optimized performance. | A.V. Suryawanshi N.V. Gaikwad |
| 12 | Design and development of All Terrain vehicle with optimized performance. | U.I. Shaikh |
| 13 | Design and development of the Eco Robot and Hybrid Robot using wireless transfer technology through super capacitors for transferring energy. | S.B. Matekar |
| 14 | Design and development of Blood Warmer | R.A. Gujar |
| 15 | Automated Water Filtration & Recycling System for PCMC | Mrs. R.S. Kad |

3.2 Resource Mobilization for Research

The Institute has a well-structured policy for research promotion and funding. Institute has R&D budget to a tune of 60 lakhs which are allotted to all department for UG and PG programmes.

- Sufficient Research funds allocated in the annual budget of the Institute for every department to accommodate the research activities.
- Rs. 66.68 lakhs have been received from various funding agencies.
- Institutional budgets are provided for procurement special equipment, instruments, tools and softwares necessary to promote research.
- Provision of labs to be open for extended hours to utilize for research.
- Optimum utilization of resources like library, labs, computing facility.
- Incentives in the form of awards, registration fees for participation in various conferences and workshops.
- Financial support to students for participating in prestigious competitions.

Institutional funding for organizing various research events, technical exhibition, conferences, workshops.

3.2.1 What percentage of the total budget is earmarked for research? Give details of major heads of expenditure, financial allocation and actual utilization.

Institute has a financial provision for research in the annual budget. These funds are utilized for high end equipment, seed money for projects by faculty and students.

Some fund is also kept reserve and utilize on the registration fees for participating in conferences and workshops or events such as SAE BAJA, SAE SUPRA, ROBOCON. These are being supported continuously to the faculty. Moreover for vital expenditure required for the research purpose, additional provision is also accommodated in budget.

The percentage wise budget utilization is listed in table 3.2.1 (i) Institute wise and department wise budget allocated and utilized is in table 3.2.1 (ii)

Table 3.2.1 (i) Percentage Utilization of Total Budget of R&D at Institute level

| | 2016-17 | 2015-16 | 2014-15 | 2013-14 |
|--|-----------|-----------|-----------|-----------|
| Research Budget Allocated at Institute level (Rs.) | 50,00,000 | 60,00,000 | 60,00,000 | 50,00,000 |
| Research Budget Utilized at Institute level (Rs.) | 7,99,455* | 31,12,561 | 34,62,907 | 16,50,534 |
| % Utilization | 15.99% | 51.87% | 57.71% | 33.01% |

* These are the expenses till date and expenses of Rs.22,44,573 are currently in pipeline.

Table 3.2.1 (ii) Utilization of Total Budget of R&D Department wise

| Department | Total Budget for R&D Allocated and Utilized department wise | | | | | | | | |
|------------|---|----------|-----------|----------|-----------|----------|-----------|----------|--|
| | 2016-17 | | 2015 – 16 | | 2014 – 15 | | 2013 – 14 | | |
| | Allocated | Utilized | Allocated | Utilized | Allocated | Utilized | Allocated | Utilized | |
| | | | | | | | | | |

| | | | | | | | |
|------------|-----------|-----------|----------|-----------|-----------|-----------|----------|
| Mechanical | 12,00,000 | 12,50,000 | 8,50,278 | 17,00,000 | 11,06,099 | 10,00,000 | 5,68,323 |
| Computer | 12,00,000 | 12,50,000 | 8,69,577 | 12,00,000 | 7,35,810 | 12,00,000 | 2,20,000 |
| E&Tc | 12,00,000 | 12,50,000 | 7,65,000 | 12,00,000 | 6,85,000 | 12,00,000 | 13,9500 |
| IT | 8,00,000 | 10,00,000 | 5,36,557 | 11,00,000 | 4,62,057 | 5,00,000 | 1,30,150 |
| Civil | 3,00,000 | 5,00,000 | 1,32,527 | 4,50,000 | 7,37,000 | 5,00,000 | 0 |
| MCA | 1,00,000 | 2,00,000 | 16,390 | 1,00,000 | 5,200 | 2,50,000 | 16,081 |
| MBA | 50,000 | 50,000 | 0 | 50,000 | 0 | 1,00,000 | 0 |

3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?

Yes. Seed money is provided by the Institute to the faculty dealing with Research based funded projects of various funding agencies like BCUD, AICTE, etc. The Institute support the faculty interested to set up the laboratory for the research purpose, which enrich the laboratory research facility addressing the basic /core research & societal need based contribution.

Grants are also given for the training, travel and attending the conferences, workshops at national and international levels on a continual basis. Details of seed money for faculty for the last four years is given in Table 3.2.2

Table 3.2.2 Seed Money for Faculty (Amount in Rs)

| Year | 2015-16 | 2014-15 | 2013-14 |
|--|----------|----------|----------|
| Seed money given to the faculty for experimental set ups. | 2,33,078 | 93,652 | 47,984 |
| Grants for attending conferences, workshops, training and travel | 2,53,299 | 6,70,140 | 3,04,978 |
| TOTAL | 4,86,377 | 7,63,762 | 3,52,962 |

3.2.3 What are the financial provisions made available to support student research projects by students?

The Institute provides funding for carrying out research by students. Every year the proposals for funding were called from all interested students. The first scrutiny is done through SIGs of every department and then recommendations are forwarded for further approvals. Details for the last four years is given in Table 3.2.3

Table 3.2.3 Seed money for Students (Amount in Rs)

| Year | 2015-16 | 2014-15 | 2013-14 |
|---|-----------|-----------|----------|
| Seed money for Projects, participation in National level events to encourage the research activities. | 16,65,854 | 11,60,819 | 6,02,027 |

3.2.4 How does the various departments/units/staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.

The institute is always encouraging the departments to undertake inter-disciplinary research. The faculty from collaborating departments works out the strategies for design and implementation of the project, clearly defining knowledge and expertise sharing and utilization. The following are some such examples listed in Table 3.2.4.

Table 3.2.4 Multi-disciplinary Project details

| Sr. No | Year | Name of the Faculty / Department | Title of the Project | Funding Agency | Grants received | Status |
|--------|------|--|---|--|-----------------|---------|
| 1 | 2016 | Dr. S.S. Lakade, Mr. S.B. Matekar, Mr. R.A. Gujar, | Product Innovation Lab | 3D PLM | 11.00 | Ongoing |
| 2 | 2016 | A.B. Patil, Mrs. S.A. Patil, Mrs. A.M. Ekbote | e-Yantra Lab Setup Initiative (e-LSI) | Project by IIT Bombay, Sponsored by MHRD | 1.00 | Ongoing |
| 3 | 2016 | Dr. S T Mali Dr. S S Sonar Mr.PS Khambekar | Water quality assessment and modelling in PCMC water treatment system | PCMC | - | Ongoing |
| 4 | 2016 | Dr.N.R.Deore | Breaded wire cutting machine | TIFAC | 2.91 | Ongoing |
| 5 | 2015 | Dr. S Thepade, Mrs J Dewan Ms B Ratnaparkhi | VIBE (Video Imaging & Biometrics Enhancements) Laboratory | BCUD | 1.00 | Ongoing |
| 6 | 2014 | Mr. Rahul Patil | GPU Education Center | NVIDIA | 1.68 | Ongoing |

Every year the students and faculty from Mechanical, Electronics and Telecommunication and Computer Engineering work on various problem statements defined by National Level Robotics Competition ROBOCON and e-Yantra (Robotics Design)/ KPIT SPARKLE, AAKRUTI.

The challenges in inter disciplinary projects are tackled by knowledge sharing by the faculty members and students of all the departments involved.

3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?

Laboratories of each programme are well equipped with the state of the art equipment and accessories over and above curriculum requirements. Also advanced relevant

equipment/ instruments have been added through funded projects. The departments collaborate in optimizing the use of resources and expertise. The equipment and instruments are serviced and maintained regularly either by the department technicians or by the service personnel authorized by the manufacturer. Available software are shared and trainings are rendered in the use of the same to whoever and whenever needed. Duplication of purchases is avoided to augment the resources.

Many High end equipment and software are used by the PhD pursuing faculty and PG students for carrying out their research.

3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility? If 'yes' give details.

Yes. Based on the expected outcome and benefits of the project work, departments approach industry / beneficiary agency for funds to carry out the project. The details of the special grants from Industry or funding agency are provided in Table 3.2.6.

Table 3.2.6 Special Grants Received

| Sr. No | Year | Laboratory/ Research facility developed | Funding Agency | Grants received Lakhs |
|---------------|-------------|--|--|------------------------------|
| 1 | 2016 | e-Yantra Lab Setup Initiative (eLSI) | Project by IIT Bombay, sponsored by MHRD | 1 |
| 2 | 2015-16 | Learning Resource Development Centre | QCFI | 7.5 |
| 3 | 2015-16 | Product Innovation Lab | 3D PLM | 11 |
| 4 | 2015-16 | Design and Simulation of low power Integrated Circuits using HSPICE at deep submicron Technology | SPPU under QIP | 1 |
| 5 | 2014-15 | GPU Education Center | NVIDIA | 1.68 |
| 6 | 2014-15 | Calibration support | Baker Gauges | - |
| 7 | 2012-13 | Experimental kits | Texas | - |
| 8 | 2012-13 | PLC Model setup and Automation Studio for experimental purpose | B&R | - |
| 9 | 2011-12 | Modernization of Vibration Lab | AICTE | 9.5 |
| 10 | 2011-12 | Development of state of the art research lab for VLSI and Embedded Systems | AICTE | 7.25 |

3.2.7 Enumerate the support provided to the faculty in securing research funds from various funding agencies, industry and other organisations. Provide details of ongoing and completed projects and grants received during the last four years.

The institute supports the faculty members to prepare the proposals for various funding

agencies. Details of the same are listed in Table 3.2.7

Table 3.2.7 Details of sponsored Research Projects

| Sr. No. | Duration Year From To | Title of the Project | Name of The funding agency | Total Grant Received Lakhs |
|---------|-----------------------|---|----------------------------|----------------------------|
| 1 | 2016-18 | Design and Development of 2 kW wind-battery hybrid system, by Dr. A. Roy | BCUD | 2.2 |
| 2 | 2016-18 | Design and development of low cost solar air dryer using phase change material, by Mr.S.P. Salve | BCUD | 1.4 |
| 3 | 2016-18 | Analysis of Surveillance videos for event detection and alarming system using video content, compression, summarization and classification, by Dr. S. D. Thepade Mrs. J. Dewan | BCUD, | 1.0 |
| 4 | 2016-18 | Development of Household Bioreactor from kitchen Waste, by Dr. S.T. Mali | BCUD | 1.9 |
| 5 | 2016-18 | Optimization for Ready Mix Concrete (RMC) truck's Dispatching Schedule, by A.K. Gaikwad | BCUD | 1.0 |
| 6 | 2015-17 | To analyse human emotion & body signal to predict suitable therapy for depression recovery, by Dr. J.S. Umale Swati Chandekar | BCUD | 0.4 |
| 7 | 2015-17 | Experimental study of lifted spray flame, by U. G. Potdar | BCUD | 0.85 |
| 8 | 2015-17 | Data mining classification using ensemble of classification & fuzzy logic, by V. D. Katkar V. C. Kulloli | BCUD | 0.37 |
| 9 | 2015-17 | Data Mining Hybrid Approach for prediction at critical illness, by Rahul Patil | BCUD | 0.36 |
| 10 | 2015-17 | Wireless/Mobile Communication, by Dr. N.B. Chopade, G.R. Rahate | BCUD | 1.5 |
| 11 | 2015-16 | Establishing Product Innovation Lab, by Dr. S.S. Lakade, S.B. Matekar, R.A. Gujar | 3DPLM | 11 |
| 12 | 2015-16 | e-Yantra Lab Setup Initiative (eLSI) , by A.B. Patil, S.A. Patil, A.M. Ekbote | MHRD | 1 |
| 13 | 2014-15 | Projects to help MSME sector industries, by Dr. S.S. Lakade | TIFAC-DST | 13 |
| 14 | 2013-15 | Experimental studies on propagation of premixed flame in diverging meso-scale channels, by Dr. N.R. Deore | BCUD | 1.4 |
| 15 | 2013-15 | Experimental investigation for enhancing of latent heat energy | BCUD | 1.9 |

| | | | | |
|----|---------|---|-------|------|
| | | storage using embedded heat pipe, by C.L. Ladekar | | |
| 16 | 2013-15 | Effective information retrieval system, by A. N. Chaudhari | BCUD, | 0.75 |
| 17 | 2013-15 | An assessment and comparatively investigate factors affecting computer literacy in urban and rural schools, by Deepali Railkar, Poonam Katare | BCUD | 0.8 |
| 18 | 2012-14 | Experimental investigation of two phase NCL with end heat exchangers, by U.I. Shaikh, U.G. Potdar | BCUD | 1.75 |
| 19 | 2011-13 | Evolutionary algorithms for document clustering and effective information Retrieval, by A.D. Thakare | BCUD | 1.20 |
| 20 | 2011-13 | Linux Kernel wrapper driver for wireless LAN card (Wi-Fi Converter-Windows To Linux) , by S. S. Gore | BCUD | 0.80 |
| 21 | 2011-13 | EEG based brain computer interface for communication & control, by V.A. Kulkarni | BCUD | 0.5 |
| 22 | 2011-13 | Mining classification rules from database from ANN, by Dr. S.V. Shinde | BCUD | 1.0 |
| 23 | 2011-13 | Image Fusion, by J. S. Kulkarni | BCUD | 1.25 |
| 24 | 2011-12 | Modernization of Vibration Lab, by S.K. Bhoite L.V. Awadhani A.A. Panchwadkar | AICTE | 9.5 |
| 25 | 2011-12 | Development of state of the art research lab for VLSI and Embedded Systems under the MODROBS, by Dr. S.U. Bhandari | AICTE | 7.25 |

3.3 Research Facilities

3.3.1 What are the research facilities available to the students and research scholars within the campus?

a) Internet Facility:

- Sufficient computing facilities are available like High Performance Computing Lab, Innovation lab, 3DPLM, MQC, Bakers and Gauges lab.
- Wi Fi enabled campus.
- Identity Base Bandwidth with 179 MBPS leased line

b) **Innovation and incubation Centre:** Innovation and Incubation center equipped with the required facilities is available 24X7.

c) **Access to Laboratories, Computer center, Library beyond working hours.**

Students get access to laboratory beyond working hours also with prior permissions.

d) **Software:** MATLAB with 9 toolboxes, Statistica, ScanIP, research software are

made available.

e) Journals:

- Research journals (print and e-journals) are available for the faculty and the students.
- e-Journals- 8 Package – IEL, IEEE, ASME, SPRINGER, ASCE, ELSEVIER, ASTM, J-GATE
- Print Journals -14 and
- Technical Magazine -31

3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The Institute established the interface with R&D organizations. It helps in understanding the requirement of infrastructural facilities. The SIG's identifies the problems based on societal needs. The requirement of equipment to tackle the problem is identified and procurement of such equipment is done to enrich the infrastructural facility to meet the needs of researcher in his emerging area of research.

The strategies for planning, upgrading and creating infrastructural facilities are enumerated below:

- Each department prepares a budget for laboratory requirements and other equipment required for either upgrading the existing facilities or including new additions to enrich the working environment and facilitate research and innovation in various technology domains.
- Once the budget is approved, the purchase of the instruments equipment and other requirements is initiated and carried out.
- The stock verification of the existing infrastructure is taken at the end of every year and maintenance and repair is undertaken to keep the labs in good condition
- The subscription for print and e-journal are renewed and new subscriptions are made to cater to the reference requirement of the researchers.

Faculty members are encouraged to visit reputed laboratories and R & D departments to know the latest developments in research.

3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If 'yes', what are the instruments / facilities created during the last four years.

The Institute has received grants from the industry as well as from other funding agency for developing research facilities. The table 3.3.3 highlights such facilities created.

Table 3.3.3 Facilities Created through Sponsored Projects

| Sr. No. | Year | Title of the Project | Funding Agency | Grants Received (In Rs) | Facilities created through the grants |
|---------|------|----------------------|----------------|-------------------------|---------------------------------------|
|---------|------|----------------------|----------------|-------------------------|---------------------------------------|

| | | | | | |
|----|---------|---|--------|-----------|---|
| 1 | 2016-18 | Design and Development of 2 kW wind-battery hybrid system | BCUD | 2,20,000 | Ongoing |
| 2 | 2016-18 | Design and development of low cost solar air dryer using phase change material | BCUD | 1,40,000 | Ongoing |
| 3 | 2015-16 | Establishing Product Innovation Lab | 3DPLM | 11,00,000 | 3D Printer, 3D Experia software, Experimental kits |
| 4 | 2014-16 | Vertical handover between contemporary wireless standards | BCUD | 1,50,000 | USRP SDR Platform |
| 5 | 2014-16 | Data mining classification using ensemble of classification & fuzzy logic | BCUD | 37,000 | Ongoing |
| 6 | 2014-15 | GPU Education Center | NVIDIA | 1,68,000 | Virtual Lab created CUDA Graphics card |
| 7 | 2013-15 | Experimental study of lifted spray flame | BCUD | 85,000 | Experimental Set up for Applied thermodynamics |
| 8 | 2013-15 | Effective information retrieval system | BCUD | 75,000 | Matlab License with toolbox |
| 9 | 2013-14 | Development of Research Lab for VLSI & Embedded system for Simulation, Testing & verification | AICTE | 7,25,000 | Mentor Graphics tool, Vertex 7, zed board. |
| 10 | 2012-15 | Experimental studies on propagation of premixed flame in diverging meso-scale channels | BCUD | 1,50,000 | Experimental Studies, CFD work carried out |
| 11 | 2012-15 | Experimental investigation for enhancing of latent heat energy storage using embedded heat pipe | BCUD | 1,90,000 | Experimental Set up for heat transfer lab |
| 12 | 2011-13 | Experimental investigation of two phase NCL with end heat exchangers | BCUD | 1,75,000 | Experimental Set up for thermodynamics lab |
| 13 | 2011-12 | Modernization of Vibration Lab | AICTE | 9,50,000 | Electro dynamic Shaker, Impact Hammer, FFT Analyzer |

3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?

The Institute provides following facilities to the students outside the campus.

- The Institute has collaborations or MoUs with many industries and students are

encouraged and supported in taking up projects in industries.

- Students are selected for internships in companies. This serves as a platform for real-time research work.
- MoUs signed with industries also open up avenues for students to take guidance from Industrial engineers for their research and also use equipment and other facilities available in the organization such as ARDE, NCL, DIAT, Whirlpool, SKF, Tata Motors, and Cummins etc.

3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?

The Institute has the NPTEL resources, subscription of the following online and hard copy journals. In addition to this, Institute has a membership of

- ARAI,
- British library and
- MCCIA library.

Table 3.3.5 reflects library resource details available for academic and research purpose.

Table 3.3.5 Library Resource Details

| Details\ Year | | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|----------------------------|-----------|--|---|---|--|
| Science | Soft Copy | 4 Packages of AICTE. (IEL, ASME, ELSEVIER, ASCE) | 4 Packages of AICTE. (IEL, ASME, ELSEVIER, ASCE) | 4 Packages of AICTE. (IEEE, ASME, ELSEVIER, ASCE) | 8 Packages of AICTE. (IEEE, ASME, Mc GRAW HILL, SPRINGER, ASCE, ELSEVIER, ASTM) LGATE) |
| | Hard Copy | 10 | 10 | 10 | 10 |
| Engineering and Technology | Soft Copy | 4 Packages of AICTE. - (IEL, ASME, ELSEVIER, ASCE) | 4 Packages of AICTE – (IEL, ASME, ELSEVIER, ASCE) | 4 Packages of AICTE. - (IEEE, ASME, ELSEVIER, ASCE,) | 8 Packages of AICTE. (IEEE, ASME, Mc GRAW HILL, SPRINGER, ASCE, ELSEVIER, ASTM, J-GATE) |
| | Hard Copy | 123 | 123 | 118 | 119 |

3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the college. For ex. Laboratories, library, instruments, computers, new technology etc.

Research facilities have been enhanced and research labs have been established through

research projects funded by Governmental research agencies like AICTE, University. The Institute is instrumental in setting up research facilities through collaboration with industries / beneficiary agency / industry for each department. Initiatives are taken to establish a high level of rapport with industries and agencies to cater the needs of the stakeholder. Following are the few examples.

- NVH laboratory is developed partially through the MODROBs project of AICTE and our institute. The equipment required for the research in the field of Noise and Vibration such as FFT Analyzer, Electro dynamic Shaker, Impact hammer have been developed which are being utilized for the UG and PG projects in this domain.
- NVIDIA has provided the hardware required for the research in the Computer engineering UG and PG projects.
- In association with 3DPLM, Product Innovation laboratory has been developed. The facilities such as 3D Printer, 3D Experia software, Experimental kits required for the development of new products are made available to the students.

3.4 Research Publications and Awards

3.4.1 Highlight the major research achievements of the staff and students in terms of

- *Patents obtained and filed (process and product)*
 - *Original research contributing to product improvement*
 - *Research studies or surveys benefiting the community or improving the services*
 - *Research inputs contributing to new initiatives and social development*
- **Patents obtained and filed (process and product)**

The students and the faculty of this institute have filed 144 patents. The details are given below.

Table 3.4.1(i) Patents by Faculty and students

| Sr. No. | Department | Patents filed by | |
|---------|------------|------------------|----------|
| | | faculty | students |
| 1 | Mechanical | 28 | 48 |
| 2 | Computer | 06 | 11 |
| 3 | E& Tc | 51 | 23 |
| 4 | IT | 09 | 01 |
| 5 | Civil | 02 | 03 |

- **Original research contributing to product improvement**

There are number of innovations leading to the product improvement. A few cases are detailed below.

Table 3.4.1 (iii) Original research contributing to product improvement

| Sr. No. | Title of the project | Improved Product | Department |
|---------|--|--|-----------------------------------|
| 1. | Automated Water Filtration & Recycling System | The control system designed and developed is implemented for the water filtration and recycling by municipal corporation | Electronics and Telecommunication |
| 2. | Speech Recognition Powered wheelchair for disabled | Speech Recognition Powered wheelchair for disabled | Electronics and Telecommunication |
| 3. | Smart Trolleys for malls | Trolley with RFID reader | Electronics and Telecommunication |
| 4. | Truck cabin cooling using the exhaust gases. | The cooling system utilizing the heat from the exhaust gases was used to cool the truck cabin. | Mechanical |
| 5. | Ceiling fan cleaning attachment | Attachment is developed to clean the ceiling fan blades without consuming the additional power | Mechanical |
| 6. | Linear & Angular Scale measuring Compass | The compass with both the scales linear and angular scale is manufactured that save the time for drawing. | Mechanical |
| 7. | Automatic lifting of seat by using spring arrangement of two wheeler vehicle | Use of spring has made the refueling easy. | Mechanical |
| 8. | Gear pedal operated side stand retrieving mechanism | The locking arrangement provided ensures the side stand is retracted back. | Mechanical |
| 9. | FPGA Based Universal ATM Card | Single ATM card for all banks | E&TC |
| 10. | DIGI PANCHAYAT | A tool compiling all documents in the perview of the Gram Panchayat are made available online | MCA |
| 11. | Ajay Gaikwad | Dispatching Schedule Optimizer (DiScO) for Ready Mix Concrete Trucks | Civil |

- **Research studies or surveys benefiting the community or improving the services**

All projects are focused towards improving the product/ process/ performance which has a benefit to the society. Through seminar and the project work every student is studying the literature with objective of identifying the research gap, identification of the scope of the work. Management faculty students carry out the surveys based on the customer satisfaction; identification of customer needs in order to carry out the product/ process/ performance improvements. The outcome of their research studies is of direct use to the society. A few examples of this includes

| |
|--|
| Truck cabin cooling using heat of exhaust gases |
| Electronic Toll Collection |
| Wireless Hand Gesture Recognition - The Acceleration Sensing Glove |
| Automatic Meter Reading For Electricity Using Power Line Communication |
| Wheel Chair Control System |
| Smart Traffic Control System Using Image Processing |
| Retinal Blood Vessel Segmentation Algorithm For Diabetic Retinopathy & Abnormality Detection Using Image Subtraction |
| Design of data management and prediction about health status to support healthcare system using QR code |
| Wireless Home Automation Technology (WHAT) Using Internet of Things |
| On-line business analysis tool for 'Key-performance indicators' in construction industry |
| Evaporative air and water cooling by using earthen pot. |

- **Research inputs contributing to new initiatives and social development**

Following are the few examples of projects directed towards social needs.

Table3. 4.1 (iv) Projects with Social aspects

| List of Projects benefiting the society |
|---|
| Solar dryer with increased effectiveness using self-developed collector |
| Cooling of Truck cabin using heat of exhaust gases |
| Solar assisted heat pump domestic water heater and dryer. |
| Pedal Powered Washing Machine |
| Evaporative air and water cooling by using earthen pot. |
| Diabetes detection |
| Image processing projects |
| Biomechanics project |
| Automation at Toll booth, Petrol pumps, Hospitals |
| Appliances for blind, dumb, physically challenged people |
| Health diagnostics IT based tool development |
| Energy conservation and management |
| Renewable energy, Auto Farmer Using Renewable Energy |
| Electronic Toll Collection |
| Wheel Chair Control System |
| Leaf Disease Detection And Diagnosis |
| GPS Based Soldier Tracking And Health Indication System |
| Smart Card based token generation system for mess/canteen/ |
| GPS – GSM Integration for Enhancing Public Transportation Management Services |
| Bus Safety & Security |
| Smart Trolleys for malls |
| ARM 7 Based Semi-Autonomous System For Accident Alert & Traffic Information |
| Low Energy Based Home Control System Using Android Application |
| Automatic Toll Tax Collection System Using RFID |
| Remote Farm Control & Protection System |
| Automated Water Filtration & Recycling System |
| Speech Recognition Powered wheelchair for disabled |
| On field monitoring & controlling of poly house |

3.4.2 Does the Institute publish or partner in publication of research journal(s)? If

'yes', indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?

The institute does not publish any research journal. However the efforts have been channelized to partner with IEEE Xplore for inhouse international conference publications.

3.4.3 Give details of publications by the faculty and students:

- Number of papers published by faculty and students in peer reviewed journals (national / international)

Table 3.4.3 (i) Number of Papers Published

| Sr. No. | Department | Publication in Peer Reviewed Journals | |
|--------------|------------|---------------------------------------|-----------|
| | | International | National |
| 1 | Mechanical | 82 | 01 |
| 2 | Computer | 321 | -- |
| 3 | E&Tc | 131 | -- |
| 4 | IT | 483 | -- |
| 5 | Civil | 12 | -- |
| 6 | MBA | 2 | 12 |
| 7 | MCA | 11 | 01 |
| Total | | 1042 | 14 |

- Number of publications listed in International Database (for e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

Table 3.4.3 (ii) Papers Published in International Database

| WOS | Google Scholar | Scopus | EBSCO host | Total No. of Publication Listed in international database. |
|-----|----------------|--------|------------|--|
| 10 | 946 | 217 | 20 | 1189 |

- Books with ISBN / ISSN numbers with details of publishers

Table 3.4.3 (iii) Books Published by Faculty

| Springer | Elsevier | Lambert Academic Publishing | Other |
|----------|----------|-----------------------------|-------|
| 06 | 02 | 02 | 13 |

- Citation Index
 - Number of faculty with citations: 64
 - Number of faculty with citation index more than 10: 25
- h-index
 - Number of faculty with h-index: 61
 - Number of faculty with h-index 2: 13
 - Number of faculty with h-index 3: 10

- d. Number of faculty with h-index 5: 02
 e. Number of faculty with h-index more than 5: 03

3.4.4 Provide details (if any) of

- *research awards received by the faculty*
- *recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally*
- *incentives given to faculty for receiving state, national and international recognitions for research contributions.*

• **Research awards received by the faculty**

Table3. 4.4(i) Research awards received by the faculty

| Best Paper Award | Research Project Competition at University level | Others |
|------------------|--|--------|
| 17 | 04 | 07 |

• **Recognition received by the faculty from reputed professional bodies and agencies, nationally and internationally**

Table 3.4.4 (ii) Recognition received

| Sr. No. | Name of the Faculty | National Committee | Designation |
|---------|----------------------|---|---------------------------------------|
| 1 | Dr. A.M. Fulambarkar | Quality Circle Forum of India | Secretary, Pune Chapter |
| | | Board of College and university Development SPPU | Member |
| | | Board of Studies, CCOEW, Pune | Member |
| | | Zeal College of Engineering and Research, Pune | SPPU representative on Governing body |
| 2 | Dr. P.J. Awasare | Board of Studies Mechanical SPPU | Coordinator |
| | | BOS and Faculty , University of Mumbai | Member |
| | | BOS Mechanical and Automation Shivaji University, Kolhapur | Member |
| | | Advisory Board, VIT, VIIT, WIT | Member |
| 3 | Dr. N.R. Deore | Member Technical Committee SPPU | Member |
| | | IEEE- ICCUBEA 2015 | General Chair |
| 4 | Dr. S.S. Lakade | Keynote Speaker for National Conference on Innovations in Engg and Management | Keynote Speaker |
| 5 | Dr. S.D. Thepade | National Conference on Recent Trends in Electronics, Telecommunications and Information Technology (NCRTEIT-2015) | Invited Speaker |
| | | SPPU BCUD Innovation | Expert |

| | | | |
|----|-------------------|--|---------------------------|
| 6 | Dr. N.J. Uke | Ph.D. Review Committee of SPPU | VC Nominee |
| 7 | Dr. N.B. Chopade | IEEE- ICCUBEA 2016 | General Chair |
| | | Doctoral Research committee, NMU Jalgaon | Member |
| 8 | Dr. S.U. Bhandari | IEEE- ICCUBEA 2015 | General Chair |
| 9 | Dr. V.N. Patil | ICRTCCS Jan 2016 | General Chair |
| | | ICACDOT Sep 2016 | General Chair |
| | | Advisory Board, Dept. Of E&TC MIT Aurangabad | Member |
| 10 | Dr. K.S. Kinge | ICSGRC 2011 | Technical Chair |
| | | ICSET 2013 , Malaysia | Reviewer |
| | | International Journal of electronics and computer technology | Member of editorial board |
| | | NMIMS university | Member of BOS |
| 11 | Mr. S.L. Tade | IETE Pune Section | Executive Member |

| Sr. No. | Name of the Faculty | International Committee | Designation |
|---------|---------------------|--|-------------------------|
| 1 | Dr. S.D. Thepade | INTERNATIONAL CONFERENCE on Global Trends in Engineering, Technology and Management (ICGTETM – 2016) | Invited Speaker |
| 2 | Dr. S.S. Lakade | International Conference on Transformations in Engineering Education at Indo Universal Collaboration for Engineering Education | Review Committee Member |
| 3 | Dr. S.S. Lakade | Invited Session for Webinar on Bio Mimicry organized by Dassault Systems Tech Talk Series 2016 | Invited Speaker |

- **Incentives given to faculty for receiving state, national and International recognitions for research contributions**

The faculty members contributing to the research activities such as completing sponsored projects, receiving awards at National/ International level events are recognized in the annual get together organized by Staff Development and Welfare Cell.

3.5 Consultancy

3.5.1 Give details of the systems and strategies for establishing institute-industry interface?

The Industry institute Interaction cell comprising of department faculty coordinators headed by Dean, Industry Institute Interaction looks after building the interface between the industry and institute. This cell works for identification of potential in opportunities for student placements, internships, sponsored projects, consultancy and training programmes. Based on these identified potential the joint ventures, MoUs takes the shape and the interface between the industry and institute is further strengthened. The departments additionally build good rapport with the industries by following means

- a) Inviting industrial experts to judge various technical events during the technical festival TECHLLIGENT.
- b) Inviting the industrial experts for the guest lectures, sessions in the workshops, seminars.
- c) Involving the experts from industry for the poster/ project evaluations at UG/ PG students.
- d) Sharing of expertise, facilities for the mutual benefit of industry and institute.
- e) Developing the laboratories in collaboration with industry.
- f) Developing course curriculum with the help of industrial experts in order to bridge the gap in curriculum.
- g) Conducting specialized courses in association with industry in order to make the students ready for placements.
- h) Students are encouraged to bring their own local needs to decide research and consultancy assignments.

The institute proposed two courses of semester duration which were designed taking care of the particular requirements of the core industries in Mechanical and E&Tc.

3.5.2 What is the stated policy of the institution to promote consultancy? How is the available expertise advocated and publicized?

To help industries in solving various problems and enhance the professional and academic experience of the staff members, a strong link is established between the institute and external organizations so as to elevate the research opportunities, student internship and placement.

The Industry Institute Interaction meets are held every year to discuss the various issues, problems, opportunities and scope for bridging the gap. The discussions in the interaction lead to joint ventures, MoUs which in turn gets converted to various opportunities for the project internships, placements and consultancy. The expertise available with the institute is advocated and publicized in the following way.

- The faculty members in association with Industry Institute Interaction cell members visit to the Industry to find out gray areas where collaborative work can be done with proper discussion and MoU.
- The available expertise and facilities are publicized via Institute Brochures and Website.

3.5.3 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?

The institute promotes the consultancy work by providing following facilities.

- Permitting the use of infrastructure facilities
- Encouraging student participation in consultancy work
- Sharing the revenue generation as per policy document.
- Extending On-Duty leave along with both Travelling allowances regardless of number of visits for consultancy work till the endeavor becomes self-supporting.

3.5.4 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.

The various departments with their areas of expertise have extended their support to the appropriate agencies by way of consultancy services. These are detailed below;

Table 3.5.4 Details of Consultancy by Faculty

| Name of the Faculty | Department | Consultancy work | Income Generated (in Rs.) |
|---|------------------------|---|----------------------------------|
| Dr. S.U. Bhandari Mrs. V.K. Harpale | E&Tc | 3 day workshop on 'Reconfigurable Computing' for PG students of various institutes. | 70,328/- |
| R. S. Vadali | Information Technology | Assistance for Remote Services and Information Security | 1,10,000/- |
| Dr. Mrs. Anindita Roy and A.R. Suryawanshi | Mechanical E&Tc | Conducted Collaborative training Programme from K Watt Solutions Pvt Ltd. | 11,880/- |
| A.A. Panchwadkar | Mechanical | Determination of stress distribution using Polari scope to PG students from other institute | -- |
| L.V. Awadhani | Mechanical | Providing a contact stress calculator in HEXCAM to SME | -- |
| L.V. Awadhani | Mechanical | Spring back studies for redesign of a bar bending machine to SME | -- |
| A.A. Panchwadkar | Mechanical | Determination of Mass moment of inertia for Dukati Energia Pvt Ltd. Chinchwad | -- |
| D.A. Wagholikar | Mechanical | Conducted a course on GD&T for students | 7500/- |

3.5.5 What is the policy of the institution in sharing the income generated through consultancy (staff involved: Institution) and its use for institutional development?

- Monetary and non-monetary benefits are extended to the faculty members by the institute as per the stated policy of the institute to utilize their efforts towards consultancy assignments
- The policy document is prepared and approved by the management for sharing the revenue generation.

3.6 Extension Activities and Institutional Social Responsibility (ISR)

3.6.1 How does the institution promote institution-neighbourhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?

- The extension activities of the institute ensure that students are exposed to the societal needs and their social responsibilities. NSS activities play a vital role in involving the students in community work. Students also form their own networks for social and environmental causes and this is given due recognition.
- The institution has affiliations with various bodies/ organizations with the objectives
 - To support RTO as Police Mitra during Ganesh Festival
 - To help Anti Superstition Committee (Andhashraddha Nirmulan Samiti) in the community development.
 - To help the weaker sections, orphans, hospitals, old age homes through donations in various modes.
 - To help local municipal corporation in the ganesh festival through Nirmaya Visarjan Campaign.
 - To help school children by conducting various courses in the vacations.
- Regular blood donation camps bring awareness to students on the value of life and their own contribution in saving the same.
- Programs on road safety and the ill-effects of alcoholism or bad habits, cleanliness drives, donating the cloths, blankets to the needy people creating computer literacy to the orphanage children through NSS help them educate themselves on responsible citizenship.
- Participation in a variety of sports activities inculcates sportsmanship and team work among students and contributes to holistic development of students.

3.6.2 What is the Institutional mechanism to track students' involvement in various social movements / activities which promote citizenship roles?

Students enroll themselves in the respective cells based on their inclinations and interest. Various cells/ committees such as National Service Scheme, Art circle, departmental cells etc. undertake movements such as Wear Helmet, Anti Alcohol movement, save Girl Child, save environment, etc.

3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?

The institution values the opinions and viewpoints of all stake holders.

- Feedback from students on academics and related services is obtained on a regular basis and put into use for the progress of the institution. (Academic Process Manual)
- Faculty ideas and opinions are perceived through department and faculty meetings which are further discussed in weekly meetings of the HoD with the Principal of the institution.
- The formal interactions with parents once / twice a year and informal meetings with the PTGs, class teachers and the Head of departments serve as valuable sources of information and suggestions for augmenting the performance and contentment level of all stakeholders. (Academic Process Manual)
- The alumni feedback is solicited during alumni meet, Graduation day.(Academic Process Manual)
- The employers constructive criticisms and estimations are welcomed and judiciously put into practice for the betterment of the institution.

A consolidation of the above feedbacks encompasses the perception of all the stakeholders on the overall quality and growth of the institution and this perception is accepted, analyzed and mechanisms arrived at and put into practice for enhancing the eminence of the Institution.

3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.

The institute through NSS cell decides the calendar of activities that meet the objectives of the cell such as helping the society by Tree plantation, Blood donation, help to orphanages, help the government in elections, processions, rallies as per the needs specified.

In addition to this, the institute undertakes the winter camp in order to help the villagers through various activities such as advocating cleanliness, educating the school children through the science exhibitions, computer literacy, lectures, and seminars on social aspects. To conduct these activities the budgetary provisions are made. Following are the details of the expenses incurred various activities of NSS in last four years.

Table 3.6.4 Budget for Extension activities.

| 2012-13 | 2013-14 | 2014-15 | 2015-16 |
|----------------|----------------|----------------|----------------|
| 83,074/- | 87,041/- | 1,04,383/- | 95,008/- |

3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/International agencies?

The extension activities of the institute include not only NSS but other clubs such as Art Circle, departmental student association such as MESA, CESA, etc. The art circle organized a drama and the funds collected from this were donated to NAM foundation working for the drought affected part of Maharashtra state. Similarly Student's association of MESA organized its annual Technical Event Techlligent 2016 with a theme Innovate to Help. All the events under this were focused at the research on development of gadgets for the physically challenged people to ease out their routine life.

The Activities of each club is convened / coordinated by a faculty member and additional faculty members opt / are deputed to help in the conduct of the club activities. The students enroll themselves as members of a club and a student can enroll in more than one club.

The office bearers of each club are either elected or nominated and the office bearers work in conjunction with the faculty convener to plan and execute the activities. The student members participate in the activities and also contribute by proposing novel ideas for the functioning of the club.

Programs are organized during National days such as Independence Day and Republic Day and students are encouraged to organize and participate in the days' events.

The tangible outcome of promoting such activities is the growth of leadership quality, team building capacity, adaptability and awareness on social illnesses and the role of the individual in addressing the same.

3.6.6 Give details on social surveys, research or extension work (if any) undertaken by the college to ensure social justice and empower students from under-privileged and vulnerable sections of society?

The various activities conducted by the students from NSS Cell and other student's associations are oriented towards helping the weaker section of the society. Following are the details of various activities conducted.

Table3. 6.6 NSS Activities of Students and Faculty

| Date | Name of Event |
|---|---|
| Activities for the help to the needy | |
| 28/04/12 | Help to the cancer patients |
| 03/08/15 | Visit to Sadhana Village- Orphans (Special Friends) |
| 30/06/12 | Rural development program for the students and villagers of the Nagaj, Dist. Sangli |
| 05/08/12 | Celebration of rakshabandhan at Gurukul Punuruthan |

| | |
|-----------------------------|--|
| | Anathashrama |
| Sep 14 | Fund Raising for blinds |
| Blood Donation Camps | |
| 12/09/12 | MOU with the Poona serological blood bank |
| 26/09/12 | Blood donation camp during NSS week on 26/09/2012 |
| 26/09-12 | PCCOE student donates platelets to save life |
| 26/12/13 | Blood Donation Camp, Blood Group & HB checking Camp |
| 10/01/15 | Blood donation camp |
| 09/08/12 | Celebration of August Kranti din with blood donation camp |
| NSS Camp | |
| 21/12/13 | Gram Survey |
| 22/12/13 | “Soil Testing” |
| | Guest lecture Youth and Politics |
| | Session on Sammohanshastra |
| 24/12/13 | Science School |
| | Gani Prabodhanachi |
| | Pathnatya and Drama by students |
| 25/12/13 | “Work Donation”- |
| | Origami Workshop |
| | Game with Youth of Village |
| 26/12/13 | Poster Competition |
| | Practice session |
| 27/12/13 | Tree plantation |
| | Programme for Women |
| | Judo Training for girls students |
| | Cultural Program |
| 28/12/13 | Awareness Drive |
| 05/01/15 | Inauguration |
| | Group discussion |
| 05/01/15 | Village survey |
| 06/01/15 | Tree plantation |
| | Youth participation in development of India & social responsibility of youth |
| | Shivkalin yudha kala pradarshan |
| 07/01/15 | Sanshodhan drusti |
| 07/01/15 | Sarp (Snake) : samaj/ gairsamaj |
| 07/01/15 | Reading classes |
| 08/01/15 | Interschool competition |
| 08/01/15 | Politics –youth participation |
| 08/01/15 | Social awareness session |
| 09/01/15 | Bachat gat guidance |
| 09/01/15 | Good moral values by games |
| 09/01/15 | Hypnotism |
| 10/01/15 | Computer training |
| 10/01/15 | Cultural program |
| 11/01/15 | Soil testing |
| 11/01/15 | Science exhibition |
| 11/01/15 | Kirtanatun Prabodhan |
| 12/01/15 | Prabhat Pheri |
| Other activities | |

| | |
|---------------|--|
| 10/9/12 | Students of NSS PCCOE attended police mitra training. |
| Aug 15 | Program for Personality Development for village students |
| 28/8/15 | Jal dindi abhiyan |
| 2,4,7,8-09-14 | Nirmalya Collection At Ganesh Talav |
| 02/10/14 | Swach Bharat Abhiyan |
| Sep 2014 | Police Mitra training. |
| 17-3-15 | Tree Plantation in PCCOE |

3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.

The extension activities conducted by the institute always imbibe the academic learning experience, values and skills in students and faculty. These activities also energize the environment of the institute. The major strength of the institute is its ability to ensure holistic development of students to make them responsible citizens. It aims to maintain modern outlook with contemporary developments without compromising moral values. It also provides an insight to the students to apply technological developments, management and leadership qualities through their applications in social upliftment.

3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?

The extension activities are designed to promote direct interaction between the students and the community. The NSS camps pave way for the rural student community to interface with professional institute students. Programs like Kirtan and Science Exhibition are organized to bring in the general public to the institution.

The students do visit the centers where specially challenged children, privileged citizens do reside to help them, entertain them and also to educate them. Similarly, students carry out activities for old age people staying in Vrudhashram.

The institute hosts events such as QCFI Convention for industrial delegates, Seminars, and workshops for the HSC students from the nearby locality for carrier guidance, school children, graduation ceremony, annual social gathering etc. Through such programmes, the interaction with different sections of society takes place which leads to the participation of these sections in the extension activities.

3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.

The institute has established good relations with the organizations working for the social cause through various activities of the cells. To name a few Kamayani School for the blind and dumb students, Punrutthan Gurukul, Sadhana Village orphanage, Poona

serological blood bank etc.

During the technical event organized by Mechanical Engineering Student's Association titled Innovate to help, a good association was initiated with 'Kamayani School' for blind, dumb students. It was decided that our students will help that organization in maintaining the various machines procured by that school. The students from Computer Engineering donated blankets at 'Punrutthan Gurukulam'. 'Sadhana village orphanage'

Every year our NSS students help the Corporation during the Ganesh festival Processions and Nirmalya Visarjan at Ganesh Talab. Our students also help the government authorities in the local elections, road safety movements. Good association is established with the municipal corporation.

3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.

- Best college award for Student Welfare from SPPU in 2011-12.
- Best TPO award for organizing a Mega Placement Drive from SPPU.
- Best NSS team at SPPU level in Rasta Suraksha Abhiyan from State Government Road Transport Department.
- Best NSS team for Blood donation camp at the hands of Dr. Sanjay Chahande DTE by Maharashtra Arogya Vibhag at B.J. Medical College Pune.
- Police Mitra Award at the hands of Dy. Chief Minister of Maharashtra.

3.7 Collaboration

3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives – collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.

The institute supports various kinds and modes of collaboration with industries and reputed institutions. With the invaluable support from the management, the departments take the liberty of contacting and interacting with institutes of relevance to their academic area. A few examples are

- 1) Industry Institute Interaction Meet is organized every year which is attended by experts from the industries. This year being Silver Jubilee year, this meet was organized on big scale in which 3 CEOs, 15+ Directors, 7 Vice Presidents, Deans of 2 Universities attended the event. In this conference, 35 MoUs were signed with industries. Five parallel sessions were running to have the interaction between industry representatives and faculties. The interaction was organized in association with NASSOCM, SPPU, Pune, BOAT (Ministry of HRD, Govt. of India), MIDC, SME Chamber of India for their Association. The event was supported by KPIT Technologies, Gnosis Plus, Seed Infotech, TechRel, Net Languages, Scout, IMS,

- Imperial I2E, Imperial Overseas, TIME, Eddify.
- 2) Our team of Industry Institute Interaction approaches various industries for the placement of UG and PG students and also for the internships in the vacations.
 - 3) Departments visit industries of their respective domain and discuss various collaborative activities benefiting the industry and institute both. These discussions are then transformed into MoUs.

Following are the few examples of collaborations

Table 3.7.1 Examples of Collaboration and benefits derived

| Sr. No. | Name of the Faculty | Name of the Industry/ Research Laboratory | Activity | Benefit |
|---------|---|--|--|--|
| 1 | Dr. A. D. Thakare | DRDO | Research Project for PG student | Collaborative research opportunity |
| 2 | Dr. K. Rajeshwari | Creospan | Research Project for PG students | Collaborative research opportunity |
| 3 | Dr. S.V. Shinde | National Chemical Laboratory | Research Project for PG student | Collaborative research opportunity |
| 4 | Dr. S.S. Lakade | National Chemical Laboratory NCL | Expert session on Innovations and IPR | Knowledge sharing |
| 5 | Dr. S.S. Lakade | VERROC Polymers, Aurangabad | Faculty exchange | Sharing of expertise from both organizations |
| 6 | Dr. S.S. Lakade | AUTOCLUSTER | Presentation of the proposal. | Sharing the facilities by both organizations |
| 7 | A.R. Suryawanshi Mrs. R.S. Kad | B&R automation | PLC training | Knowledge sharing , Projects |
| 8 | A.B. Patil Mrs. S.A. Patil A.M Ekbote | e-Yantra Lab Setup Initiative (eLSI), Project by IIT Bombay, Sponsored by MHRD | Robotics and embedded system training. | Knowledge sharing, Projects and mini projects. |

3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/ industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.

The institute has signed following MoUs with the Industries or the Organizations.

Table3.7.2 List of MoUs with Industry or Organizations and benefits derived

| Name of the Organization | Aim | Beneficiaries | Importance |
|---|---|---|--|
| 3D PLM Software Solutions Ltd. | To establish 3DPLM Product Innovation Lab. | All FE,SE TE BE students & PG Students | Through this MoU new projects related to Mechatronics will be given to students |
| Innovation Next, Gurgaon | For developing creativity and innovation culture for first year students. | First year students | It has given very good exposure to the ideas dwelling in the minds of first year students. |
| CREOSPAN | For collaborative research opportunities | PG Computer and PG Information Technology | Four PG projects are offered as collaborative research. |
| NVIDIA | For training and research | Computer Engineering students | GEC education center is established. |
| Sapience Technology System Pvt. Ltd. and Siemens Ltd. | For training NX & PLM soft wares of Siemens Ltd. | 55+ students have enrolled for the course of NX. | NX is a CAD tool and now days it is widely used in high profile industries like Mercedes Benz. Its giving a very good exposure to this tool. |
| Marsh Consultancy of Excellence, Pune- | For training in Multi Body Dynamics (ADAMS) software | 30+ Students and faculties enrolled for the ADAMS Course. | ADAMS is a Multi body dynamics Software used for simulation in industries like Mahindra, TATA Etc. Students are getting very good knowledge of this simulation tool. Also BAHA and Supra Students are getting benefited by learning this tool. |
| Mantra CAD/CAM Solutions, Pune- | For training in ANSYS Fluent CFD | 30+ Students and Faculties are enrolled for this course | ANSYS Fluent is very important tool so as to analyses the flow of liquid and its behavior. Students are getting good exposure to the CFD tool from this MoU |
| Forbes Marshall Pvt. Ltd. Pune | For conducting open elective for BE (Mechanical) students in Steam Engineering and Energy Management. | BE Students who will opt the Steam engine elective | New course on Steam Engineering and Energy Conservation has been developed and sent to the University authorities for the inclusion in the final year curriculum. |
| MITCON Consultancy services Ltd., Pune. | For Technology based Entrepreneurship Development Programmes and | All SE TE BE Students | Entrepreneurship Awareness Camp (EAC) is conducted with the help of MITCON / Department of Science and Technology, New Delhi. |

| | | | |
|--|--|---|--|
| | Incubation | | |
| TIFAC, Government of India, New Delhi- | For TIFAC – MSME Scheme Leveraging the capabilities of engineering faculties and students for MSME sector. | 20+ Students are getting benefit of this MoU. | Students are working in industries and getting wide exposure to different problems faced by the MSME industries. They are trying to find the solution to these problems. Stipend is provided by the TIFAC to these students |
| Baker Gauges India Pvt. Ltd., | For establishing Center of Excellence MQC Lab and Calibration center with NABL accreditation. | NABL Accredited lab | Calibration lab is used by the students for practical purpose and calibrating basic Linear Measuring Instruments, Dial Gauges. |
| Quality Circle Forum of India | For developing Quality Culture and training in 7QC Tools, TPM, KAIZEN, 6sigma etc. | 30+ Students are member of QCFI. | QCFI is an international body which deals with quality. Students are participating in different competitions organized by QCFI. By winning different trophies they are making name of PCCOE at national international level. |
| Central Institute of Plastic Engineering and Technology (CIPET), Govt. of India, Aurangabad. | For Training in CATIA, Pro-E, Uni graphics | 80+ Students have enrolled for the CATIA Course | CATIA is a CAD tool used by well-known mechanical companies. Students are learning basics of these tools in this course. |
| M/s. Skyfi Labs Pvt Ltd | Technical add-on to the students and revenue generation | Civil Engg Students | Seismic design of Building using SAP 2000 and ETABS |
| IBM | Training provided for IBM Courses like DB2 and RAD etc. | IT, Computer and MCA students | Students got trained and certified by IBM on technology. |
| EMC2 | Training support provided for Recent technology. | IT students | EMC Teaching/Learning Aids, Video Lectures and study notes are provided. |
| ATS infotech Pvt. Ltd | One Free FDP | Students and Faculty | Students are trained on .net technology with Microsoft certification |
| Suman Technology | 2 days FDP | Students and Faculty | students are trained on Big data analysis and Hadoop technology |

| | | | |
|--------------------------------------|---|-----------------------------------|---|
| Oracle university | 100 user license copy of Oracle database software | Students and Faculty | students get certified in java/SQL certification |
| KPIT Technology | For conducting open elective for BE (E&TC) students in Automotive Electronics | All TE, BE students & PG Students | Through this MoU new open elective will be given to students and Authorized training for automotive electronics will be designed and provided in institute. |
| Texas Instruments | For establishing Lab facilities and other project activities for students | All FE,SE TE BE students | This MoU Helped in providing various experimental kits which helped students to work on various projects |
| B & R Industrial Automation Pvt Ltd. | For training in PLC automation and project based activities | All FE,SE TE BE students | Students are working in industries and getting wide exposure to different problems stated by Automation industries related to PLC automation. |
| Masstrans Power Electronics | For establishing Lab facilities and other project activities for students | All FE,SE TE BE students | Students and faculty will get new avenues for the research work in the field. |
| Question pro | To develop research culture amongst students. | All MBA Students | It provides students with powerful software for conducting online surveys. |

Other MoUs

| |
|---|
| Microsoft IT Academy |
| Marsh Consultancy |
| Mantra CAD/CAM Solutions |
| Baker Gauges India Pvt. Ltd |
| Texas Instruments |
| MASSTRANS, B&R Automation India |
| TIFAC (Technology Information, Forecasting and Assessment Council) |
| Central Institute of Plastic Engineering & Technology, Aurangabad |
| BOAT (Board of Apprenticeship Training, Ministry of HRD, Govt of India's Autonomous body) |
| KPIT Technologies |
| Infosys |
| Zensar / Synechron |
| NVIDIA |
| IBM Centre of Excellence |
| Siemens |
| MITCON, Pune. |

3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation/up-gradation of academic facilities, student and staff support, infrastructure facilities of the institution viz. laboratories / library/ new technology /placement services etc.

Table 3.7.3 Facility development through Industry Institute Interaction

| Sr. No. | Name of the Faculty / Department | Title of the Project | Year | Funding Agency | Grants received | Status |
|---------|---|--------------------------------------|------|-------------------|-----------------|-----------|
| 1 | Dr. A.M. Fulambarkar | Learning Resource Development Centre | 2015 | QCFI | 7.5 Lakhs | Completed |
| 2 | Dr.S.S. Lakade, D.A. Wagholikar | Centre of Excellence for Quality | 2015 | Baker Gauges | | Completed |
| 3 | Dr. S.S. Lakade, S.B. Matekar, R.A. Gujar, Mechanical | Product Innovation Lab | 2016 | 3D PLM | 11 Lakhs | Completed |
| 4 | A.R. Suryawanshi Mrs. R.S. Kad | PLC trainer Kits | 2012 | B & R Automation | -- | Completed |
| 5 | Dr. S.U. Bhandari | Texas instrumental Kits | 2013 | Texas Instruments | -- | Completed |
| 6 | R.A. Patil | GEC Education center | 2015 | NVIDIA | 1.68 Lakhs | Completed |

3.7.4 Highlighting the names of eminent scientists / participants who contributed to the events, provide details of national and international conferences organized by the college during the last four years.

Table 3.7.4 Details of Eminent Persons contributing in National/ International Conferences Organized

| Sr. No. | Researchers of Eminence | Designation |
|---------|-------------------------|--|
| 1 | Pad. Vijay Bhatkar | Ex- Director, CDAC, Chancellor of India International Multiversity, Chairman of ETH Research Lab, Chief Mentor of I2IT, and National President of Vijnan Bharati |
| 2 | Dr. Wasudeo Gade | Vice Chancellor, Savitribai Phule Pune University, Pune |
| 3 | Dr. Surendra Pal | Vice Chancellor, DIAT, Pune |
| 4 | Dr. Madria Sanjay | Professor, Computer Science, Missouri University of Science and Technology, Rolla, USA |

| | | |
|----|----------------------------|---|
| 5 | David Hudson | Tata Motors, United Kingdom |
| 6 | Dr. Sachin Loddha | Senior Scientist, Tata Research Design and Development Center (TRDDC), Pune |
| 7 | Dr. Maher P C | Professor, STU University Singapore |
| 8 | Dr. Sasikumar | Associate Director, CDAC |
| 9 | Dr. Nagchandhani | Professor Emirtus, IIT, Delhi |
| 10 | Dr. Aditya Abhyankar | Dean, Faculty of Technology, Savitribai Phule Pune University, Pune |
| 11 | Dr. Rajesh Ingle | IEEE, Pune Section Conference Chair |
| 12 | Dr. R K Shyamsundar | Senior Professor, Tata Institute of Fundamental Research, Pune |
| 13 | Dr. G S Mani | Scientist, DRDO |
| 14 | Dr. Mohammad Hassan | Professor, Dept of E&Tc, Aligarh Muslim University, UP |
| 15 | Dr. Deepankar Nagchaudhari | Ex-Professor, IIT Delhi |
| 16 | Dr. Shashank Pujari | Ex-Director, SU IIT, Sambalpur, Orissa |
| 17 | Dr Vishwas Udpikar | CEO, Wavelet Technologies Pvt Ltd |
| 18 | Dr. Mehta | Professor, NID Ahmdabad |
| 19 | Dr. Bapat | Cordinator, IIT Powai Design Centre |
| 20 | Prof. S. B. Kedare | IIT Powai |
| 21 | Mr. Anant Patki | Scientist, ISRO |
| 22 | Mr. Xavier | Global head Academics, Dassault System France |
| 23 | Mr. Pravin Rajpal | CEO, Innovation next Gurgaon |

3.7.5 How many of the linkages/collaborations have actually resulted in formal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated

| Aspect focused | No of MoUs | Activities | Beneficiaries |
|------------------------|-------------------|---|--|
| Curriculum development | 02 | 02 Courses developed in association with Industries | Students of E&Tc and Mechanical in all affiliated colleges in SPPU |
| Academic resources | 04 | Laboratory infrastructure development | Faculty and Students from E&Tc and Mechanical |
| Student Development | 02 | Entrepreneurship development, Innovation, | |
| R&D | 03 | New interdisciplinary laboratory development | Faculty and students will get the new avenues for the research |
| Trainings | 10 | Training programmes launched | Students from various departments |

3.7.5 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations.

Efforts of the institution in planning, establishing and implementing the initiatives of the linkages/collaborations are as under:

- Planned and established linkages/collaborations related to academic and research activities for students and faculty members in various specializations.
- Signing of MoUs with leading industries.
- Inviting expertise from various industries for delivering Guest Lectures, key note address in Conferences, speaker in workshops and symposiums.
- Conducting joint technical programmes and events with other organizations.
- Organizing industrial visits with the help of various collaborating agencies.
- By way of establishment of Industry Institute Interaction cell in the Institute

Any other relevant information regarding Research, Consultancy and Extension which the college would like to include.

Pimpri Chinchwad College of Engineering, Pune has been selected for implementation of Pradhan Mantri Kaushal Vikas Yojana for three sector /Specializations by National Steering Committee (NSC) in its meeting held on 29th August, 2016 as per recommendations of State Steering Committees (SSC) received approval for three Sectors as mentioned below-

- Capital Goods - CNC Operator VMC
- Construction - Mason Concrete
- Electronics and Hardware - Field Technician (Computing and Peripherals)



CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES

4.1 Physical Facilities

4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?

The institute provides state of the art infrastructure to address the need of an effective teaching and learning process. In addition to the norms laid by the AICTE, DTE and SPPU for physical infrastructure to cater co-curricular and extra-curricular activities, the policy is to provide educational infrastructure for students in terms of laboratories, software and equipment, library resources, and well-furnished classrooms etc.

The infrastructure facilities are enhanced by addressing the needs of students and faculty members to support research, product development, etc. The institution has strengthened the infrastructure in terms of audio-visual facilities, laboratories in collaborations with industries. The details are given in Table 4.1 and Table 4.2.

4.1.2 Detail the facilities available for

- a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.*
- b) Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, NCC, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.*

a) The details of facilities for curricular and co-curricular activities are given in Table 4.1.

| Facilities | Details |
|--|---|
| Technology-enabled learning spaces: | |
| Classrooms | 41 well equipped classrooms with multimedia teaching aids with Internet access. |
| Computer Labs | 33 Labs with latest configuration computers and reprographic facilities. All labs are well equipped with audio-visual and Internet facility. |
| Library | <ul style="list-style-type: none"> • Digital Library for e-Learning facility. • Wi-Fi-enabled Central library facility, exclusive reading hall facilitating approximately 200 students. |
| Computer Center | Central computing facility for students with 85 computers with Internet access |
| Tutorial Rooms | 7 Tutorial rooms well equipped with teaching learning aids. |
| Seminar Halls | Centralized Seminar Hall equipped with audio-visual aids & |

| | |
|---|---|
| | having 300 seating capacity. |
| Specialized Facilities | <ul style="list-style-type: none"> • Learning Resource Development Centre (LRDC) • Self-learning center with 50” LCD TV and Speakers in all departments. • Fully Wi-Fi enabled zones. • Aesthetically designed air-conditioned conference room. • Innovation Center • Innovation center to facilitate students creativity |
| Equipment for teaching, learning and research | <ul style="list-style-type: none"> • 78 well equipped laboratories • Labs developed in collaborations with industry – Product Development Lab, Metrology and Quality Control Lab, NVIDIA, B&R, CUDA. • IBM Excellence Center |

b) The details of facilities for extra-curricular activities are given in Table 4.2.

Table 4.2 Infrastructure details for Extra-curricular activities

| Facilities | Details |
|---------------------|---|
| Student Gymkhana | <p>“Department of physical education & sports” is established in the institute to focus on holistic growth of the students. This department is looked after by the Physical Director. Following facilities are available.</p> <p>Outdoor Games: Football, Netball, Kho-Kho, Athletics, Cricket, played at sports field with lush green outfield.</p> <p>Indoor Games: Badminton, Table Tennis, Chess, Carom.</p> |
| Gymnasium | SPPU sponsored well-equipped gymnasium facility with 95 Sqm area is available in campus. |
| NSS | NSS cell is instrumental in inculcating the social awareness, and environmentally sensitive behavior amongst the students. An independent office space is provided for NSS activities with NSS Coordinator and team of 100 volunteers. |
| Counseling facility | Professional counseling is made available once in a week and whenever needed. For counseling student teacher interaction, 30 minutes time slot is provided in time table. |
| Health | <p>First Aid facility is available in each department.</p> <p>Basic Health care Unit:</p> <p>Practitioner Doctors: General Physician is visiting the institute daily in morning from 10.00 am to 10.30 am and 5.30 pm to 6.30 pm in the evening. Physician is also made available</p> |

| | |
|-------------------|--|
| | <p>in case of emergency.</p> <ul style="list-style-type: none"> • For medical emergency institute vehicle is available 24x7 to facilitate timely treatment in hospitals. • Separate doctors room in girls hostel to facilitate girls students and women staff. Lady doctor do visit everyday. • Girls common rooms are provided in each building. |
| Hygiene | <ul style="list-style-type: none"> • Water coolers with purifier are available on each floor of all buildings. • Adequate number of washrooms available. • Housekeeping for regular cleanliness and maintenance. |
| Canteen & Mess | Centralized canteen & mess facility with 780 Sqm area each is available. |
| Allied Facilities | <ul style="list-style-type: none"> • Separate infrastructure provisions are made available for Housekeeping services and Security agency. • Power backup facility is available. |

4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution / campus and indicate the existing physical infrastructure and the future planned expansions if any).

The AICTE has laid infrastructure norms for disseminating the teaching and learning process. The institute follows the guidelines for facility development and submits the report to the AICTE for ensuring the available resources to suffice the infrastructure need for academic growth.

- The institute was established in 1999. Since then the requirement of physical infrastructure was duly identified, planned and constructed to meet the needs. Each of the program, run by the institute, is provided with the required academic and administrative infrastructure as per AICTE norms in the form of class rooms, laboratories, tutorial rooms, seminar rooms and faculty rooms
- Zero Deficiency Report from AICTE is obtained every year which ensures that the availability of the infrastructure is in line with the academic growth
- All the class rooms are equipped with CPU, LCD Projectors and screens and internet accessibility.
- All required well equipped laboratories with multimedia teaching aids.
- Additionally there are central facilities like Innovation Center, Digital Library, Computer Center, Examination Control Office, Canteen, mess and Student Recreational facilities like Art Circle.

- The campus also provides adequate parking facility (approximately 2000 two wheelers for students only) for two wheeler and four wheeler vehicles
- The institute functions in two shifts to optimally utilize the available infrastructure. Additionally the inputs are also taken from the departments in preparing the time table to ensure optimal use of infrastructure.

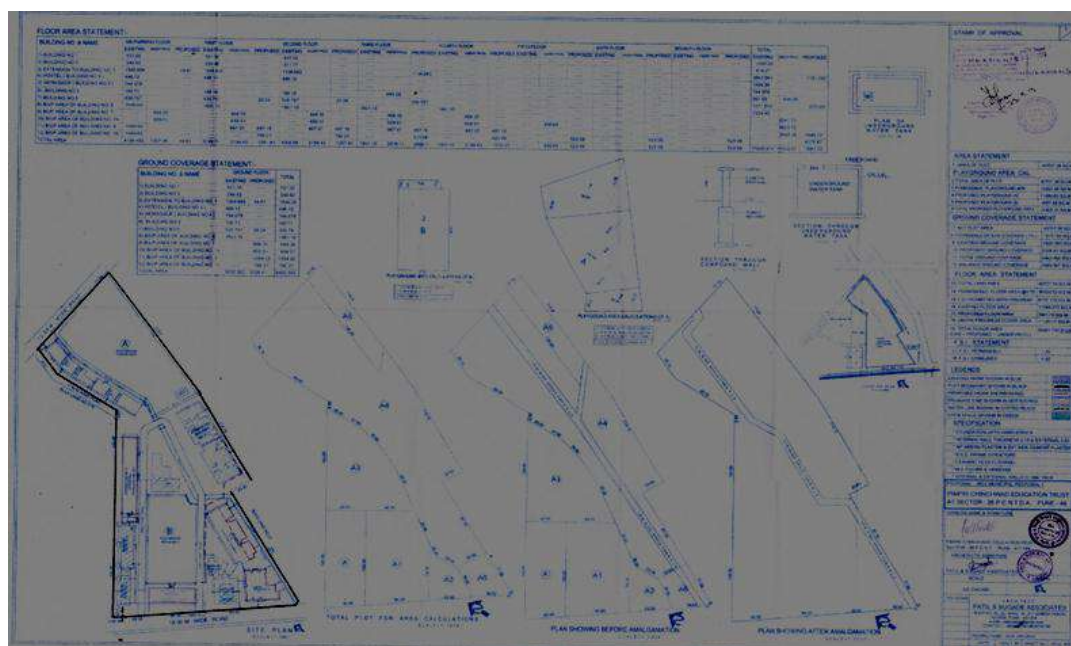


Figure 4.1 Master development plan for the campus

Facilities developed in last four years:

To meet the academic growth requirements, continuous efforts are taken to make available adequate infrastructure to fulfill the curricular and extracurricular activities. The institute is also focusing on strengthening the research component by developing the necessary infrastructure for seven PG Courses. A separate budget provision is made for UG and PG courses and Research and Development. These efforts are also directed towards enriching the recent developments/trends in technology through innovation lab, product development lab, Metrology and Quality Control Lab, etc. The details of expenses incurred towards the infrastructure development in last four years are listed in Table 4.3.

Table 4.3 Expenses incurred towards infrastructure in last four years

| Sr. No. | Heads | 2015-16 (INR) | 2014-15 (INR) | 2013-14 (INR) | 2012-13 (INR) |
|---------|-----------|---------------|---------------|---------------|---------------|
| 1 | Building | 66,77,022 | 2,85,91,565 | -- | 28,00,694 |
| 2 | Furniture | 1,38,39,071 | 91,81,976 | 14,62,564 | 75,81,360 |
| 3 | Equipment | 71,35,971 | 1,43,74,651 | 71,49,592 | 53,75,177 |
| 4 | Computers | 1,42,83,292 | 76,96,998 | 76,07,970 | 74,90,372 |

| | | | | | |
|---|---|--------------------|--------------------|--------------------|--------------------|
| 5 | Vehicles | -- | 15,32,312 | -- | -- |
| 6 | Any other- Upkeep of infrastructure | 14,09,736 | 54,02,410 | 6,53,882 | 10,64,208 |
| | Total | 4,41,65,709 | 6,67,79,912 | 1,68,74,008 | 2,43,11,811 |

4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?

The institute is sensitive towards all its stakeholders and due care of the students is taken. The institute ensures that adequate infrastructure is facilitated to the differently abled students. Special efforts are taken to meet the needs of the differently abled students by providing necessary facilities easily accessible. The following facilities are provided for differently abled students.

- Provision of the lifts
- Wheel Chair
- Ramps at appropriate places

4.1.5 Give details on the residential facility and various provisions available within them:

- *Hostel Facility – Accommodation available*
- *Recreational facilities, gymnasium, yoga center, etc.*
- *Computer facility including access to internet in hostel*
- *Facilities for medical emergencies*
- *Library facility in the hostels*
- *Internet and Wi-Fi facility*
- *Recreational facility-common room with audio-visual Equipments*
- *Available residential facility for the staff and occupancy Constant supply of safe drinking water*
- *Security*

Details of the residential facility and various provisions available within the institute are as follows:

Hostel Facility: Institute has separate boys and girls hostel facility in the campus. Two boy's hostel having 157 rooms accommodating 387 boys. Girls hostel is having 85 rooms with attached toilet and bathroom facility for 250 girls and provides safe, secure and homely accommodation.

The rooms are well-furnished, equipped with bed, study table, cupboard, ceiling fan, curtains, etc. The rooms are having double and triple-bed occupancy, allotted on sharing basis to the students. New boys hostel are provided with attached toilet & bathroom facility.

Facilities for Medical Emergencies: Separate doctor room is available in boys and girls

hostel. Doctor is available in morning & evening. During emergency, the doctor is always available. Ambulance can be made available on emergency call basis. Institute has tie up with Sterling hospital, Nigdi. The medical emergency contact numbers are also displayed in the campus.

Internet and Wi-Fi Facility: Hostel residents are provided with a secure Wi-Fi facility on the laptop.

Library Facility: Central library facility is available in the campus for students which include common reading hall, digital library and reference section. Daily newspapers are provided to the students.

Constant Supply of safe drinking water: Institute provides a constant supply of drinking water in all hostels through water purifiers & coolers. Regular maintenance of these water purifiers and water coolers is carried out by external agency through Annual Maintenance Contract (AMC).

Security: The institute gives highest priority towards safety and security of wards. 24x7 security is provided in all hostels with CCTV cameras in the common areas. Additionally, rector, assistant rector, and supporting staff also take due care of the students and maintain discipline in the hostels.

4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?

- Health check-up camp is organized by the institute for all the students, faculty and staff at least once in a year.
- All FE students undergo “free” medical check-up at the time of admissions.
- The hospital (Sterling hospital, Nigdi) is available within reach (1 Km) and doctor is also made available in case of emergency. This hospital is having all the medical facilities.
- Insurance facility is provided to all the students.
- First aid box is available in every department
- Gymnasium is also available in the campus which is used by staff and students for better health.

4.1.7 Give details of the Common Facilities available on the campus–spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counselling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.

Women grievance Cell: Institute has set up Women’s Grievances Cell for maintaining the healthy and safe environment for girls and women employees on the campus. The cell

consists of members from faculty, administration and students.

Objective of this cell is to create a healthy environment in the campus where every woman feels safe and self-confident without any problems relating to gender discrimination and sexual harassment. Programmes are organized under this cell to achieve the objective.

Counseling: Counseling of the students is done to motivate, and enhance the self-reliance. This is achieved through parent teacher guardian (PTG), class teacher, and individual faculty. For counseling, the cubicals & Friends Cubical (from professional counselor) are provided to ensure the confidentiality. Professional counselor is made available as and when required.

Career Guidance: The career guidance is done through various cells at institute level which includes Professional Development Cell (PDC), Higher Study Cell (HSC), Training & Placement Cell (T&P), Entrepreneurship Development cell (EDC), Alumni office and CPDC Cell. The objective of carrier guidance is to make students aware about various avenues available in jobs or academics (higher education), preparation for examination & interview. The various programme are organized through these cells.

Placement unit: Campus placements play a major role in shaping up the career goals of students. It is the dream of every engineering student to get placed in a top organization visiting their campus for recruitment. We at PCCoE regularly organize training programs to sharpen the student skills. Pre-placement aptitude tests are conducted in the departments.

Adequate infrastructure facility is provided for Placement cell including GDPI room (76 Sqm), four exclusive cabins for conduction of interviews (33 Sqm) and a separate T&P office (69 Sqm).

Health center: Separate doctors room is available in both boys and girls hostel. General Physician is visiting the institute daily in morning from 10.00 am to 10.30 am and 5.30 pm to 6.30 pm in the evening. Physician is also made available in case of emergency.

Canteen: Central canteen facility is available to provide healthy and hygienic food for faculty and staff. The canteen has been constructed on an area of 780 Sqm accommodating about 400 students. Everything has been designed and built with concern for hygiene and cleanliness. It is properly ventilated. Water purifiers and coolers, wash basins are provided.

Recreational spaces for staff and students: Separate space is allocated in the campus for student activities like Art Circle, NSS etc.

Safe drinking water facility: The institute provides a constant supply of water in the

campus including all departments, hostels. Institute gets the water supply from Pimpri Chinchwad Municipal Corporation and two bore wells to cater the water demand. Campus buildings are provided with the Underground Water Storage and Overhead Tanks.

Water purifiers along with water coolers (30 no.) are provided in institute campus buildings. The maintenance of these water purifiers is done by external agency in the regular intervals on Annual Maintenance Contract (AMC) basis.

Table 4.4 Details of water supply and storage capacity

| Sr. No. | Source | Details |
|---------|---|--|
| 01 | PCMC Water supply connection | 1” connection – 03 nos. |
| 02 | Over Head water tanks (RCC) Syntax tanks | 20000 Liters capacity – 03 Nos. 10000 Liters capacity – 04 Nos. 5000 Liters capacity – 01 Nos. 2000 Liters capacity – 02 Nos. 1500 Liters capacity – 01 Nos. 1000 Liters capacity-02 Nos. |
| 03 | Under ground Water Tanks | 20000 Liters capacity – 02 Nos. 10000 Liters capacity – 02 Nos. |

Seminar hall: The institute has a centralized seminar hall with a seating capacity for 250 people. It is equipped with a multi-media projector, multi-purpose stage etc.

Parking facility: The campus also provides adequate parking facility (approximately 2000 two wheelers for students only) for two wheeler and four wheeler vehicles

Electronic surveillance: The institute has provided more than 150 CCTV electronic surveillance in the whole campus including the main gate of the institute, building corridors, class rooms, library, reading hall, computer center, hostel, labs etc.

4.2 Library as a Learning Resource

4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?

- Library has an advisory committee for smooth and effective utilization of learning resources. It consists of librarian and one faculty member from each department. Library committee conducts at least two meetings in every semester.
- Various decisions are taken to strengthen the library content in the interest of academic and research.
- Various initiatives implemented by library committee to make the facility student friendly are as follows,

- Additionally, book bank facility is provided to the toppers (209 students) and needy students (5 students).
- Extended library timings during examination period.
- Web-OPAC is available for faculty and students to search book / title / author in the library.
- Formal feedback mechanism is in place to enhance the functioning of the library.
- For SC students, extra books are provided (Beneficiary - 90 Students).

4.2.2 Provide details of the following:

- *Total area of the library (in Sqm.)*
- *Total seating capacity*
- *Working hours (on working days, on holidays, before examination days, during examination days, during vacation)*
- *Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading, IT zone for accessing e-resources)*

The details of the above points are as under,

| Total area of the library (in Sq. Mts.): 726 sq.m. | | | | |
|---|-----------------|--------------------|--------------------|-----------------|
| Total seating capacity in reading hall : 200 students | | | | |
| Details of Timings | On working days | Before Examination | During Examination | During Vacation |
| Counter timings | 8 am to 8 pm | 8 am to 8 pm | 8 am to 8 pm | 8 am to 8 pm |
| Reading Room | 8 am to 8 pm | 8 am to 12 pm | 8 am to 12 pm | 8 am to 8 pm |

Details of the various sections in the library is discussed below,

- **Stack Room /Circulation Section:** All books are stacked in this section. Books are classified by DDC 22nd editions and arranged by department wise. All books are having barcodes. Web OPAC facility is available to search specific title in the stack room.
- **Reading Hall:** Ample space is available for reading books. Seating capacity of reading hall is 200 students. Reading hall is having furniture like individual reading carrels and separate arrangement for laptop users. Reading hall having WI-FI facility.
- **Digital Library:** For e-learning, separate platform is established for faculty and students. Adequate space and internet connectivity is made available. Digital library is having 17 computers along with printing and scanning facility, e-resources, CD's (NPTL).
- **Reference Section:** Adequate space for seating, reading books etc is available in reference section. Contents of this section are reference books, handbooks, manuals, IS codes, journals, magazines, newspapers, bound volumes of national & international journals.

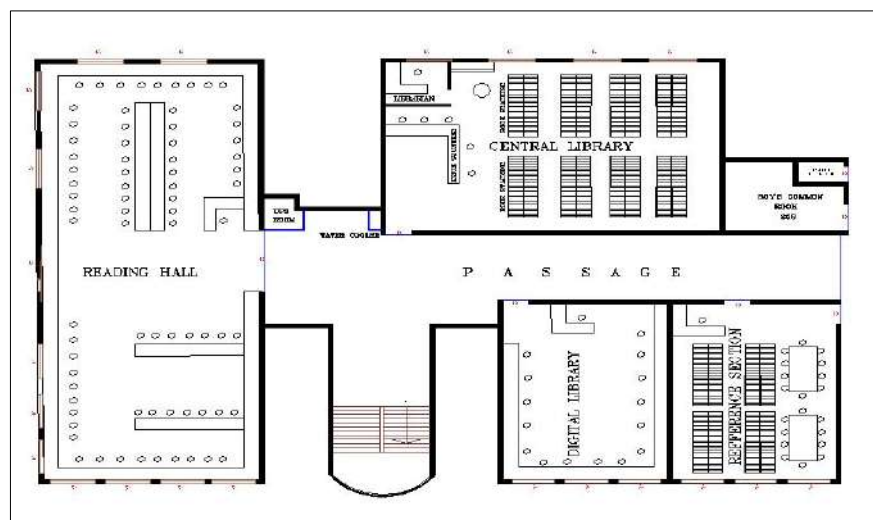


Figure 4.2 Layout of the central library

4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent on procuring new books, journals and e-resources during the last four years.

The institute has established a purchase process of resources required in library. The schematic of this process is shown in below flow chart. The use of current titles, print and e-journals and other reading materials are reviewed frequently through ERP system. The use of current titles, print and e-journals and other reading materials are reviewed frequently through ERP system. The amount spent on procuring new books, journals and e-resources during the last four years is given Table 4.6.

Table 4.6 Details of expenditure incurred in library

| Library holdings | Year -1 (2015-16) | | Year -2 (2014-15) | | Year -3 (2013 -14) | | Year - 4 (2012 -13) | |
|------------------------|-------------------------------|----------------|-------------------------------|----------------|-------------------------------|----------------|--------------------------------|----------------|
| | Number | Total Cost | Number | Total Cost | Number | Total Cost | Number | Total Cost |
| Text books | 1804 | 832161 | 2850 | 1293563 | 2901 | 134115 | 3363 | 1173978 |
| Reference Books | 337 | 334754 | 367 | 301549 | 445 | 404983 | 330 | 380498 |
| General Books | 04 | 00 | 118 | 1200.00 | 73 | 16011 | 613 | 98193 |
| Total Books | 2145 | 1166915 | 3335 | 1596312 | 3419 | 1763509 | 4306 | 1652669 |
| Journals | 151 | 412495 | 152 | 412314 | 148 | 543630 | 151 | 242048 |
| Periodicals/ Magazines | 31 | 26974 | 30 | 24196 | 29 | 25306 | 30 | 18097 |
| E-resources | 5 Package s of AICTE | 3176973 | 4 Package s of AICTE | 2602693 | 4 Package s of AICTE | 1072736 | 10 Package s of AICTE | 1687349 |

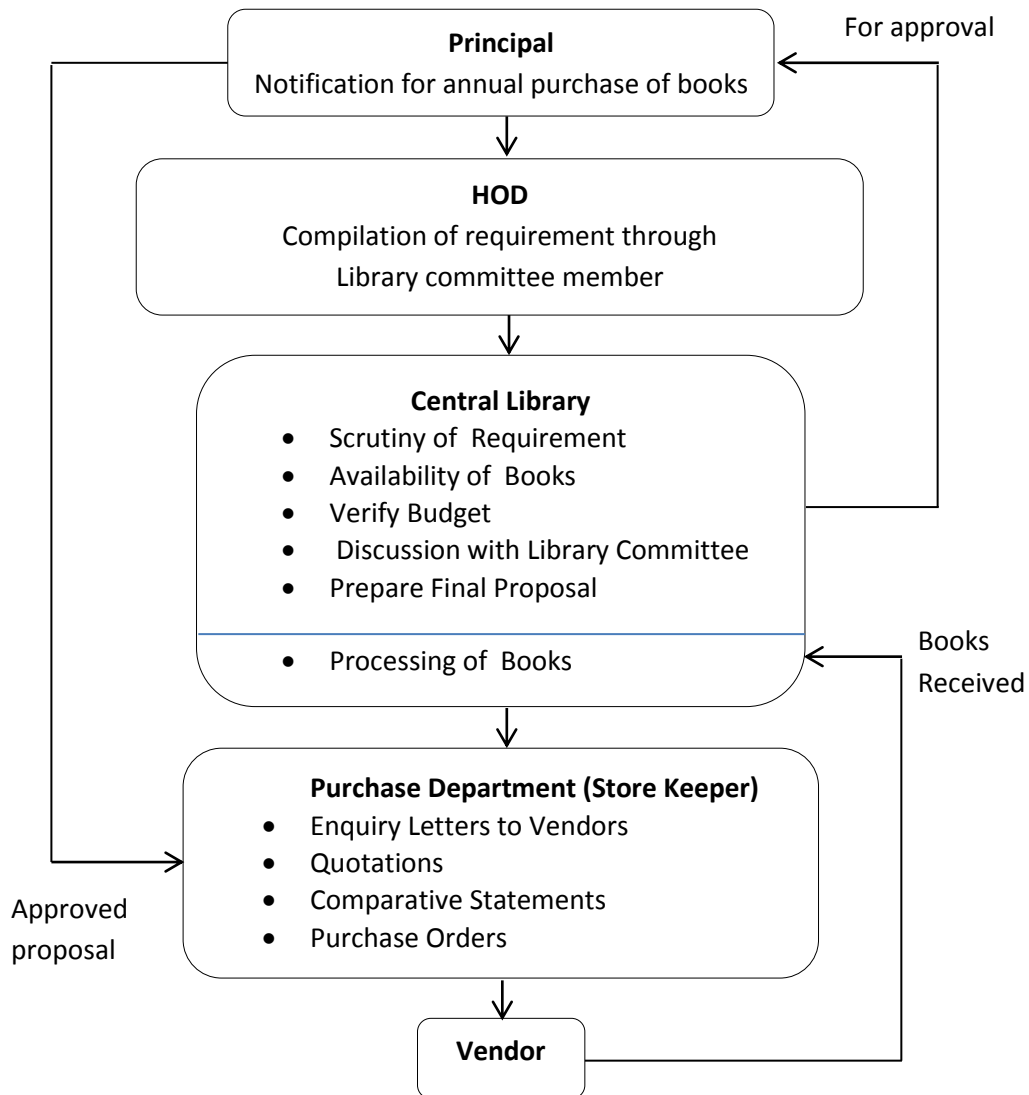


Fig.4.3 Purchase process for books in library

4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?

- *OPAC, Electronic Resource Management package for e-journals*
- *Federated searching tools to search articles in multiple databases*
- *Library Website, In-house/remote access to e-publications, Library automation, Total number of computers for public access, Total numbers of printers for public access, Internet band width/ speed (GB), Institutional Repository, Content management system for e-learning*
- *Participation in Resource sharing networks/consortia (like Inflibnet)*

The details of ICT facilities are given in Table 4.7

Table No 4.7 The ICT facilities in library.

| Facility | Details of facility |
|--|---|
| Online Public Access Catalogue (OPAC) | Web OPAC facility is available. |
| Electronic Resource Management package for e-journals | Is available- IEL,IEEE, ELSEVIER, ASCE, ASME, J-GATE (Management) |
| Federated searching tools to search articles in multiple databases | Searching facilities are available in respective databases. |
| Library Website | Library information is available on institute website |
| In -house/remote access to e-publications | All e-journals can be access on campus i.e.in all departments and hostels. |
| Library automation | Library is automated to facilitate the students and faculty. |
| Total number of computers for public access | Two PCs are available in Library as well as Web OPAC facility also available. |
| Total numbers of printers for public access | Four printer |
| Internet band width/ speed | Dedicated bandwidth is 5 Mbps & dynamically upgraded as per requirement. |
| Institutional Repository | Yes |
| Content management system for e-learning | Yes (Darpan) |
| Participation in Resource sharing networks/consortia (like Infilibnet) | No |

4.2.5 Provide details on the following items:

- *Average number of walk-ins, Average number of books issued/returned*
- *Ratio of library books to students enrolled, Average number of books added during last three years, Average number of login to opac (OPAC)*
- *Average number of login to e-resources, Average number of e-resources downloaded/printed, Number of information literacy trainings organized*
- *Details of “weeding out” of books and other materials*

The details utilization of books, average books added per year, Ratio of library books to students enrolled etc. is summarized as follows,

| | |
|---|-----------------------|
| Average number of walk-ins | Around 857 per day |
| Number of books issued/returned | About 250 books |
| Ratio of library books to students enrolled | 12:1 (40992:3562) |
| Average number of books added during last 3 years | 8900 Volumes |
| Average number of login to OPAC | In process ERP |
| Average number of login to e-resources | 3,04,281 up to Oct 16 |

| | |
|---|--|
| Average number of e-resources downloaded/printed | 26784 for 2016 |
| Number of information literacy trainings organized | Yes |
| Details of “weeding out” of books and other materials | Central Library weeded out 2797 books. |

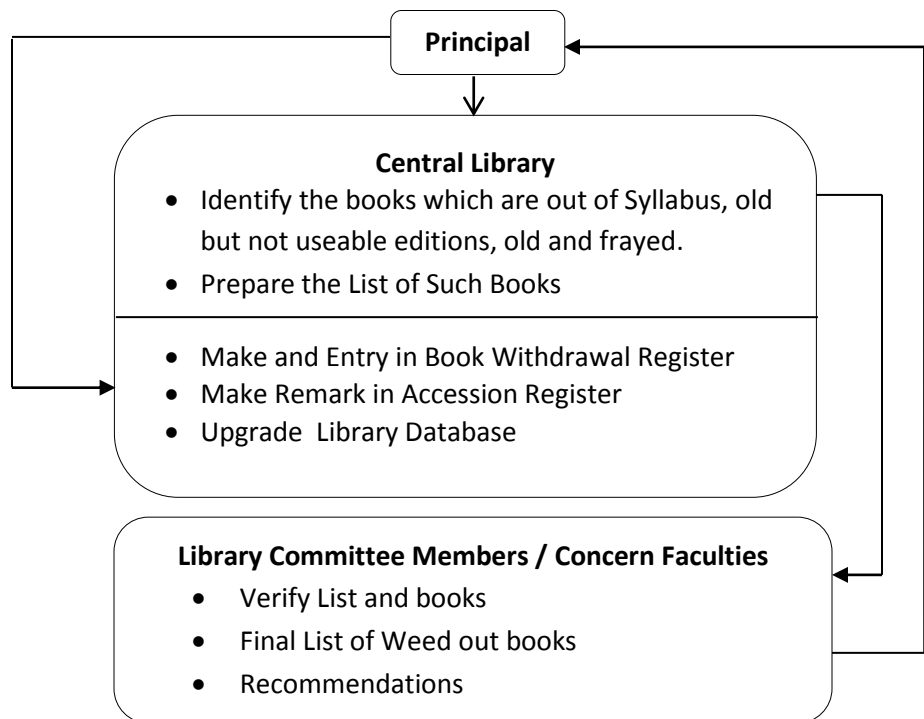


Fig.4.4: Books Weed out Flow Chart

4.2.6 Give details of the specialized services provided by the library

- *Manuscripts, Reference, Reprography, ILL (Inter Library Loan Service)*
- *Information deployment and notification (Information Deployment and Notification), Download, Printing, Reading list/ Bibliography compilation*
- *In-house/remote access to e-resources, User Orientation and awareness*
- *Assistance in searching Databases, INFLIBNET/IUC facilities*

The details of specialized services available in the Library for students and staff are summarized Table 4.8

Table 4.8 Specialized services available in the Library

| Sr. No. | Description | Details |
|---------|-------------|--|
| 1 | Manuscripts | No |
| 2 | Reference | Yes, Guidance is provided in use of all library Resources and Services |
| 3 | Reprography | Photocopier machine is available in reference section. Students can take photoconies of reference books. |

| | | |
|----|---|--|
| | | journals, question papers syllabus etc. |
| 4 | ILL (Inter Library Loan Service) | Yes available, Books handed over to FE Department for Book club, Membership of British Library & ARAI, Pune. |
| 5 | Information deployment and notification (Information Deployment and Notification) | List of new arrivals are provided to all departments, scanned content page of latest print journals & send to faculty members through e-mails. |
| 6 | Download | Students can download e-resources in digital library or from anywhere in the campus. |
| 7 | Printing | Printing facility is available in digital library as well as in other sections. |
| 8 | Reading list/ Bibliography compilation | Various types of catalogues are available in library. |
| 9 | In-house/remote access to e-resources | No |
| 10 | User Orientation and awareness | Create awareness about how to use library & library resources among first year students. |
| 11 | Assistance in searching Databases | Library staff assists to search various databases. |
| 12 | INFLIBNET/IUC facilities | No |

4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the college.

Library staff members assist students and faculty for effective use of library resources like books, e-resources, along with regular updates about new arrivals. These staff members are also instrumental in improvising awareness about handling resources available.

4.2.8 What are the special facilities offered by the library to the visually/physically challenged persons? Give details.

Central library is located at ground floor, so physically challenged students can get accesses easily in the library. Specially abled students are accompanied with library staff to facilitate necessary help like handling books from stack, identifying books etc.

4.2.9 Does the library get the feedback from its users? If yes, how is it analysed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analysed and used for further improvement of the library services?)

A systematic feedback receiving mechanism from the stake holders (students and Faculty) is established in the institute. Students give their feedback through various means like PTG, Student feedback in the department and suggestion box. Along with this separate

register is maintained in the library to receive feedback. Respective feedback in charges forward relevant feedback to library committee for necessary action.

4.3 IT Infrastructure

4.3.1 Give details on the computing facility available (hardware and software) at the institution.

- *Number of computers with Configuration (provide actual number with exact configuration of each available system)*
- *Computer-student ratio*
- *Standalone facility*
- *LAN facility*
- *Wifi facility*
- *Licensed software*
- *Number of nodes/ computers with Internet facility*
- *Any other*

Computers are available at all required places within the institute campus (like laboratories, classrooms, computer center, accounts office, administration office, Principal office, library, faculty cubical, hostel etc.), the details of which are as bellow,

| Sr. No. | Description | Qty. | Configuration |
|---------|-------------|------|--|
| 01 | Server | 1 | HP Proliant ML350p Gen8 E5-2620 1P 16GB-R P420i hot plug 8 SFF 460 W PS server 1 Tbx2HDD SATA RAID one. |
| | | 1 | HP part No 594869-371, HP Proliant ML350 G6 E5620 1P, Intel Xeon E 5620 (2040 GHz/4-core/12 MB/80W, DDR-31066) / 12MB(1X12MB) L3 cache/16 GB (2x8 GB), pc3- 10600 (DDT3-1333) registered DIMM / Embedded MC326i PCI Express Dual Port Gigabit Server Adapter/embedded HP Smart array P410i/256 MB Controller/1) 460 watt Hot Plug/3 fans ship standard/ tower(5 U). |
| | | 1 | Server – Dell Power edge T420 Dell Intel Xeon E5-2420 V2, 2-20Ghz, 15M Cache, 7.2 GT/S QPI, Turbo 6C, 80W, Max Mem/600MHZ 16GB(4 X 4 GB) 1866 Mhz DDR3 ECC RDIMM 4 TB(2 X 2 TB) 3.5” 7200 RPM Harddrive PERC H310 RAID Controller, Full Height DVD +/- RW Drive, Integrated Broadcan Gigabit earthnet 10/100/1000, No Internal speakers, Vflash, 8GB SD card for iDRAC6/7 Enterprise Dual, Hot -Plug, redundant power supply(1+1), 495W, Not Support GPU config DellTM MS111 Usb OPTICAL MOUSE DellTM USB entry business keyboar, iDRAC7 Enterprise, Dell 18.5” wide TFT monitor 3 yrs. Next business day onsite service(3-3-3) Dell Monitor,. |
| | | 1 | P/N 73821A4,two socket Tower,X3300 M4,Intel Xeon E5 2403,1.80GHz,10MB 1066 MHz, 1x8 GB, Multi Burner, RAIDOI inbuilt. |

| | | | |
|---|-------------|-----|--|
| 2 | Workstation | 1 | IBM Server x225-864962X, Xeon processor 3.06 Dual processor capable 533 MHz FSB512 KBL2 cache 512 MB DDRAM. Dual channel Ultra 320 SC51controller with RAID 1 capability 1x36.4 GB. |
| | | 1 | Server HP Proliant ML370G5 Tower Model, Quad core Intel Xeon processor E5430 2.66GHz 80 watts 1333FSB/12MB (2x6MB) Level-2 cache/RAM 2GB(2x1GB). |
| | | 4 | Dell Workstation -dell precision T3610. (Write Configuration) Model 5810, Intel Xeon Processor E5-1603 Four Core, 10MB Cache, 2.8GHz, 16GB (4x4GB) 2133MHz DDR4 RAM, 2TB SATA 7.2K RPM HDD, NvidiaQuadro K420 1GB graphics card, Intigrated NIC, Dell USB optical mouse & K/B |
| | | 3 | Dell Precision T361. Workstation offers s single High performance Intel Xeon Processor E5-1600v2 opton with upto 6 cores, 1 TB HDD Sata, 16 GB RAMS. |
| | | 10 | 3rd generation Intel core i5 -3350P processor, Memory- Upto 16 GB Dual channel DDR3 SDRAM at 1600 MHz-4 DIMMS, Hard Drive- upto 2000GB SATA hard Drive (7200RPM),Video card- NVIDIA GE-Force GT 620 1 GB DDR3,Slots-4 DIMM slots. |
| 3 | Desktops | 9 | Dell Precision T1700SFF CTO base, Dell Precision T1700 Standard 255W TPM Chassis, 4 th gen. Intel core i5 -4570 processor, RAID configuration not over 2TB, 8GB(2x4GB) 1600 MHz DDR3 Non ECC, 2 TB 3.5" SATA (7200RPM) Hard Drive Integrated SATA controller,8Xslim line DVD+/- RW. |
| | | 30 | HP FH295PA#ACT Cdx2480) E 2180 Intel Pentium duel core E-2180 processor,2.0 GHz 1 MBL2 Cache 800 MHZ FSB chipset Intel G33 Express,1-GB DDR2 Synch DRAM PC2-6400 (800 MHz) non ECC (1x1GB) PC26400 DDR2 SDRAM 800MHZ non-ECC up-to 8 GB. |
| | | 35 | ACER Desktop with Intel core-2 Duo 8 GHz (E7400)1 GB DDR2 RAM, 160 GB hard disc, SATA ATX Cabinet, with SMPS keyboard. |
| | | 62 | HP Pro-3005, MT business PC NVIDIA MCO780V chipset, AMD Athlon 11x2215 processor (2.7 GHz 2 MB -L2 cache 2 GB DDR-3 Synch RAM PC3 -1060 memory (2*16GB), Non ECC 4-DIMM slot 160 GB SATA 3.5 1st hard drive support to 500GB NVIDIA. GE-force 9100 Graphics controller 8 USB Ports. |
| | | 110 | Intel C 2D E 7500 (2.93 GHz, 3 MB, 1066 MHz FSB)/ 2GB DDR - 3 RAM/320 GB/Integrated Intel graphics Media accelerator 4500/keyboard/mouse/18.5" TFT Monitor with serial port. |
| | | 25 | Intel C 2D E 7500 (2.93 GHz, 3 MB, 1066 MHz FSB)/4 GB DDR - 3 RAM/320 GB/Integrated Intel graphics Media accelerator 4500/keyboard/mouse/18.5" TFT Monitor with serial port. |
| | | 100 | Lenovo Intel core 2 Duo E7500, 3M cache,2.93 GHZ1065 RAM-2GB |
| | | 555 | Lenovo Think Center M71e or M72e CPU core i3 2120 Second |

| | | | |
|---|---------|-----|--|
| | | | gen. Chip set H61, Memory 4 GB, HDD 500 GB optical device No Optical Device, Graphics No, Keyboard optical, Mouse optical Network 10/100/1000 |
| | | | Computers of Lenovo make of following specifications, # Of cores 2/2, Clock speed 2.9/3.4GHz, Intel smart cache 3 MB /3MB max memory size 32 GB/ 32 GB, Memory types DDR3-1333/1600, Max memory bandwidth 25.6 GB/s/25.6 GB/s. Monitor- 47 cm (18.5") E 1912 H with LED backlight.,(VGA), Memory- 2 GB (1x2GB) single channel DDR3 1600MHz SDRAM Memory, HDD-500GB SATA 3.0 Gb/s Hard Drive with native Command Queuing, |
| | | | Desktops-Optiplexx3020 Minitower BTX Base Intel core i3-4130 processor, optiplex 3020 Minitower Chassis with standard power supply, 4 GB 1600 MHz DDR3 memory, 500GB 3.5" serial ATA Hard drive Minitower Chassis mainstream heat sink , filler for no optical drive for DT/MT, monitor power cord, 6A. |
| | | 100 | Computers -X2208941N8- Vostro 3902 Desktop- Vostro 3902 Mini Tower 4 th Generation Intel ® core (TM) i3 -4160 Processor, Intel core TM i3 label,Vostro 3902 PFC chasis,4 GB single channel DDR3 160 Mhz. No media card, 500GB 7200 rpm SATA 6 Gb/s hard drive, 65 W heat sink, optical drive filler,(MT), No optical drive screw, 2 power cords,, Dell monitor 18.5",Intel graphics,Dell USB optical mouse. |
| | | 284 | Computers- Vostro 3900 MT Based 4 th Generation Intel ® Core i5 -4450 processor I5 Label vasto 3900 PFC chasis, 4 GB single channel DDR3 1600 Mhz, No media card Reader, TB 7200 rpm SATA 6 GB/s, hard Drive,95 W, Heatsink (MT),Tray load 16X DVD RW drive, optical Drive screw, Power cord Dell 19" monitor, Dell 19 Monitor E1914H, 18.5 Black Dell KB 212-B Quiet key USB Key board.Desktop i5/ Dell vostro 3650 MT Y223501UIN8. (Write Configurations) |
| 4 | Laptop | 07 | Laptop- Dell Latitude 3540 Core i3 configuration, Processor 4 th Generation Intel core i3 -4005U, 15.6 inch LED backlight Touch Display with HD resolution (1366X768), 4 GB single channel DDR3L 1600 MHZ, 500GB 5400 rpm SATA Hard Drive,optical Drive tray load DVD Drive |
| 5 | Desktop | 98 | Processor core-2 Duo 2.0 GHz.2MB chaseE4400-Intel 945 original Mother Board, Intel- RAM-512 MB DDR2, DYNET- 80 GB HDD- SATA -P4 ATX cabinet with SMPS-VIP. |
| | | 1 | Processor core-2 Duo 2.0 GHz.2MB chaseE4400-Intel 945 mother Board, Intel- RAM-1GB DDR2, DYNET- 160 GB HDD- SATA Hitachi ATX` cabinet with SMPS-VIP. |
| | | 10 | Pentium-IV, 1.8 GHz CPU, Intel 845 GLA mother board, Box Intel 256 MB DD RAM. |
| | | 24 | Intel Pentium-IV, 2.4 GHz, Intel original motherboard, 256 MB DD RAM, 80 GB HDD 7200RPM. |

| | | |
|--|----|--|
| | 37 | Mother Board Intel 512 GL-HCL make, HDD-80 GB IDE-HDD serial SATA based HCL. 15 Inch CRT colour Monitor, Processor-P-IV, 2.66GHz,1MB L2 Cache, EM64T-HCL |
| | 89 | HP FH295PA#ACT Cdx2480) E 2180 Intel Pentium duel core E-2180 processor, 2.0 GHz 1 MBL2 Cache 800 MHz FSB chipset Intel G33 Express,1-GB DDR2 Synch DRAM PC2-6400 (800 MHz) non ECC (1x1GB) PC26400 DDR2 SDRAM 800MHZ non ECC up-to 8 GB. |
| | 55 | Assembled Desktop computers, Intel duel core 2.0GHz-Intel Mother Board Asus DDR2 RAM-1 GB Dynate make, HDD-160 GB Segate cabinet etc |
| | 30 | HP FH295PA#ACT Cdx2480) E 2180 Intel Pentium duel core E-2180 processor,2.0 GHz 1 MBL2 Cache 800 MHz FSB chipset Intel G33 Express,1-GB DDR2 Synch DRAM PC2-6400 (800 MHz) non ECC (1x1GB) PC26400 DDR2 SDRAM 800MHZ non-ECC up-to 8 GB. |

List of System & Application Software used in campus are summarized in table 4.11

Table No 4.11 Details of software used in the Institute

| S.No. | License Name | License Type | Number of License |
|-------|------------------------------------|---|-------------------|
| 1 | Microsoft Windows 8 | System Software | 450 |
| 2 | Windows 10 Home Get Genuine | System Software | 50 |
| 3 | Windows 7 starter | System Software | 50 |
| 4 | Windows 2000 | System Software | 40 |
| 5 | Windows XP | System Software | 10 |
| 6 | Windows 10 Enterprise 2015 LTSB | System Software | 100 |
| 7 | Windows 10Education | System Software | 100 |
| 8 | Windows Server- Standard | System Software | 5 |
| 9 | Windows Server CAL | Application Software | 100 |
| 10 | SharePoint Server Standard CAL | Application Software | 100 |
| 11 | MS SQL Server 2000 MOLP | Application Software | 1 |
| 12 | Oracle 9i | Database Application Developer | 15 |
| 13 | MS Project 2003 Computer | Application Software | 1 |
| 14 | Microsoft Visual Studio .Net 2005 | Application Software | 5 |
| 15 | 3D Max Studio | Application Software | 1 |
| 16 | Turbo C/C++ | Application Software | 5 |
| 17 | Visual Studio .net Pro (media kit) | Application Software | 1 |
| 18 | Scilab 5.5.0 | Cross-platform numerical computational package (Application Software) | NA |
| 19 | Matlab 2012b-Mech, E&TC | Application Software | 25 |

| | | | |
|---|---|----------------------|----------------------------|
| 20 | MatLab Computer & IT | Application Software | 15 |
| 21 | Adams Bundle | Application Software | 150 |
| 22 | Catia | Application Software | 40 |
| 23 | Ansys v13 – Mechanical | Application Software | 50 |
| 24 | Auto Cad v13- Mechanical | Application Software | 125(Registered with AICTE) |
| 25 | Autocad 2009 Education License | Application Software | 20 |
| 26 | Solid Edge –Mechanical | Application Software | 40 |
| 27 | Master Cam-Mechanical | Application Software | 30 |
| 28 | Language Lab | Application Software | 30 |
| 29 | Tally ERP –Office | Application Software | 10 / mult user |
| 30 | Smartlib – Library | Application Software | 1 |
| 31 | Gate Software for Computer, E&TC & Mechanical Department | Application Software | 1 for each |
| 32 | Multisim 2012 –E&TC | Application Software | 25 |
| 33 | Multisim 2000 – E&TC | Application Software | 5 |
| 34 | Multisim v6.0 –E&TC | Application Software | 1 |
| 35 | Microwind v3.5 – E&TC | Application Software | 15 |
| 36 | Xilinx v5.2i –E&TC | Application Software | 10 |
| 37 | Code compressor Studio | Application Software | 1 |
| 38 | Ulti Board – E&TC | Application Software | 1 |
| 39 | IBM Rational Rose Suite | Application Software | 10 |
| 40 | Mentor (ME E&TC) | Application Software | 30 |
| 41 | Statistica (ME COMP) | Application Software | 1 (For each department) |
| 42 | Microsoft Office, Excel | Application Software | 50 |
| 43 | Xilinx ISE system 13.2 edition | Application Software | 25 |
| 44 | Visual Studio Version6.0 | Application Software | 1 |
| 45 | Simulation Software- simulation Video Compression Technique, Make Sigma | Application Software | 1 |
| 46 | Microsoft Skype for Business Server Standard CAL | Application Software | 100 |
| 47 | Microsoft System Centre Configuration Manager Client ML | Application Software | 100 |
| 48 | Microsoft System Centre Endpoint Protection | Application Software | 100 |
| 49 | Automation Studio | Application Software | 10 |
| 50 | LabView | Application Software | 01 |
| 51 | VLSI Software | Application Software | 05 |
| 52 | Aptitude Lab | Application Software | 80 |
| Additionally, open source operating systems like Ubuntu and other software are also used wherever required. | | | |

The computer students ratio: Computer student ratio in the campus is 1:1.4

- **LAN facility:** 3-Layer Switching (Core, Distributed and Access) model is implemented for the entire campus. Core layer switches in the buildings are connected with the Optical Fiber Ring Network (1.75Km Ring). This core switching is further extended to Distributed Switching for departments where 100/1000 Mbps (Gigabit Switches) are installed. At the access layer as per the requirements 10/100 (Megabits) or 100/1000 (Gigabit Switches).
- **Wi-Fi facility:** This facility is maintained and managed by Systems and IT Support Department. The facility is made available by setting and installing the Wi-Fi zones at various locations such as Reading halls, Hostels, Department corridors and at the Green lawn area. Staff and Students are able to get the access of said facility on their Laptops and Tablets by registering them.
- **Number of nodes/ computers with Internet facility:** All the computers (1677) are connected to LAN with Internet.

Any other: A well planned Telecom Network with Intercom Facilities is provided. Four additional BSNL land line connections with Fax Facility are available.

4.3.2 Detail on the computer and internet facility made available to the faculty and students on the campus and off-campus?

- In order to cater the growing needs of the staff and students, a pool of 250Mbps Internet Leased Line is acquired from Dishnet Wireless Ltd.(150Mbps on Optical Fiber and 55 on Rabwin based solution) and a Tata Communication Ltd. (45Mbps over the last mile fiber) is made available for the entire campus and need based distribution is done. All the internet leased lines are 1:1 uncompressed and unshared. Out of this pool of bandwidth 179Mbps is made available for PCCoE campus.
- Every faculty member is provided with the computer and Internet connection at their respective cubical or cabins with the shared printer.
- All the Computer labs and facilities are connected with the internet and are made available to the faculty and students for their academic needs in the respective departments.
- Central computing facility with latest configuration computers i.e. core i5 in 90 nos. is made available for students.
- Internet connectivity and uninterrupted power backup is made available.

4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?

Following are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities

1. The institute has currently state-of-art RUCKUS Wi-Fi access points to provide the Wi-Fi internet access through Wi-Fi zones. The institute is planning to extend this further to create and establish a Wi-Fi enabled campus.
2. Institute has established state of the art virtual learning facility like Learning Resources

- Development Center (LRDC). The institute is planning to develop the resources through this center and provide the access to the students through the file servers. The student can access to the said resources in case of a missed classroom lecture and through this facility the institute may establish a Remote learning center.
3. The institute has installed the ERP (Enterprise Resource Planning) for the effective management and control over the various established processes which is currently maintained and managed by the external vendor. This ERP was developed jointly with the said vendor. The institute is looking forward to develop and install the in-house ERP system to have the more effective management and control over the processes.
 4. The Institute has implemented the Quality Management System and is an ISO9001:2008 certified institute and further it will be upgrading itself to ISO 9001:2015. Currently many of the ISO reports are automated through the said ERP system. The institute is looking forward to develop a fully automatic ERP system where all the process of ISO may be controlled and monitored.
 5. The institute has procured and installed HPC (High Performance Computing) facility and looking forward to upgrade it to the High Performance Compute Cluster to cater the needs of Researchers in the field respective fields.
 6. Systems & IT support department is mainly concerned with the installation, maintenance of IT Infrastructure like computers, hardware, and network management through technical staff. Provisions are also made in the budget for the same. The basic maintenance and repair of Computers and peripherals, Local Area Network (LANs), Optical Fiber Ring Network, Network Switches, Wi-Fi network installed at various Laboratories and locations is properly carried out and monitored. A Server and Switching Room is air conditioned and properly designed and maintained. The institute wants to upgrade it to the Data Center kind of model to provide the better service to all of its stake holders and society.
 7. The Institute has a Central Library and currently the Circulation and maintenance is managed through the ERP system and also the Web OPAC is available for its users. The institute is looking forward to develop a fully automated library for its better management and control and also may run 24hrs a day with the much human intervention.
 8. Currently some of the labs are running over the 10/100 Mbps at the access layer. The institute will soon be upgrading all of its labs to 100/1000 Mbps link in order to provide the state of the art facility and service at the access layer also.

In order to cater the above needs the internet Bandwidth needs to be upgraded accordingly and for the same the institute may go up to the 1Gbps internet connectivity.

4.3.4 Provide details on the provision made in the annual budget for procurement, upgradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years)

The provisions made in the annual budget for procurement, upgradation, deployment and maintenance of computers and their accessories in last 4 years is given in Table 4.14.

Table 4.14 Amount spent on computers and their accessories

| Sr.No. | Year | Expenditure on procurement, upgradation, deployment and maintenance of the computers (Rs) |
|--------|--------------|---|
| 1 | 2012-13 | 80,12,973/- |
| 2 | 2013-14 | 96,71,434/- |
| 3 | 2014-15 | 93,40,489/- |
| 4 | 2015-16 | 1,56,27,641/- |
| | Total | 4,26,52,537/- |

4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/learning materials by its staff and students?

- Teaching aids provided in classroom are ICT based. Assignments are conducted using the same.
- Teaching materials are shared on the common platform.
- Google Apps are used to share the information and resources within the departments and at the institute level.
- To facilitate extensive usage of Information and Communications Technology (ICT) resources, institute ensures accessibility to computers and internet to its staff & students. Students and faculty are provided with internet through Wi-Fi on their personal laptops upon request. This encourages students to prepare their assignments, presentations and other curricular requirements using ICT. This encourages the faculty and students to become computer-aided learning and development.
- All the classrooms are equipped with ICT facility. The same set of accessories is also made available in laboratories wherever required in all the departments.
- Digital library of 56 Sq.m is also the part of central library where students can access the journals etc.

4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.

- Digital library is available for the students and staff to get the required resources for the teaching learning process.
- Wi-Fi facility is available to the students on laptop.
- LRDC, Computer center, language lab is available on campus for students and staff.
- Smart boards are available for learning, content management system in the campus.
- Faculty identifies on line resources which support curriculum to develop the students.

4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?

The institute is not availing the National Knowledge Network connectivity facility being an unaided institute.

4.4 Maintenance of Campus Facilities

4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during last four years)?

| | |
|----------|------------------|
| <i>a</i> | <i>Building</i> |
| <i>b</i> | <i>Furniture</i> |
| <i>c</i> | <i>Equipment</i> |
| <i>d</i> | <i>Computers</i> |
| <i>e</i> | <i>Vehicles</i> |
| <i>f</i> | <i>Any other</i> |

The Budget for various activities is called from departments based on the maintenance, upgradation of existing facility etc.

Budget is prepared based upon the information collected from all departments. Review of utilization of budget is carried out at the end of year. The details of budget and expenditure occurred towards on the maintenance of infrastructure is given in Table 4.1

Table 4.15 details of Budget & Expenditure done on the maintenance of infrastructure.

| S. No. | Head | Year | Budget in (Cr) | Expenditure |
|--------|---|---------|----------------|-------------|
| 1 | Building | 2015-16 | 0.75 | 66,77,022 |
| | | 2014-15 | 3.00 | 2,85,91,565 |
| | | 2013-14 | -- | -- |
| | | 2012-13 | 2.00 | 13,26,976 |
| 2 | Furniture | 2015-16 | 1.38 | 1,38,39,071 |
| | | 2014-15 | 0.85 | 84,85,007 |
| | | 2013-14 | 0.70 | 14,62,564 |
| | | 2012-13 | 0.73 | 71,29,608 |
| 3 | Equipment | 2015-16 | 3.3 | 71,35,971 |
| | | 2014-15 | 2.97 | 1,43,74,651 |
| | | 2013-14 | 2.15 | 6569,592 |
| | | 2012-13 | 1.49 | 52,19,162 |
| 4 | Computers | 2015-16 | -- | 1,42,83,292 |
| | | 2014-15 | -- | 76,96,998 |
| | | 2013-14 | -- | 76,07,970 |
| | | 2012-13 | -- | 73,51,662 |
| 5 | Any other- Upkeep of infrastructure | 2015-16 | -- | 22,30,353 |
| | | 2014-15 | -- | 60,99,379 |
| | | 2013-14 | -- | 6,53,882 |
| | | 2012-13 | -- | 10,24,789 |

| | | | | |
|---|----------|---------|------|-----------|
| 6 | Vehicles | 2015-16 | -- | -- |
| | | 2014-15 | 0.16 | 15,32,312 |
| | | 2013-14 | -- | -- |
| | | 2012-13 | -- | -- |

4.4.2 What are the institutional mechanisms for maintenance and upkeep of the infrastructure, facilities and equipment of the college?

Maintenance committee takes care of academic infrastructure and facilities. A well-defined organizational structure and Processes are established and followed as per the norms of ISO 9001:2008 (drafted in Maintenance and Fire and Safety Process Manual) to carry out the day to day maintenance of these facilities. Maintenance committees carry out work in following major areas –

- a) Mechanical Maintenance
- b) Electrical Maintenance
- c) Civil maintenance
- d) Fire and Safety
- e) Computers and Peripherals.

These committees have defined objectives to ensure regular upkeepment and maintenance of all facilities. Activities of these committees are reviewed regularly through review reports and internal audits. Preventive maintenance schedules are prepared and monitored. Annual Maintenance contracts with external agencies are made to ensure upkeepment, safety and security of the Campus.

a) Mechanical Maintenance

- The Committee receives various complaints from departments and does the in-house repairs & maintenance of various mechanical equipments, furniture in the campus. It also carries out the maintenance and repairs of class rooms and laboratory furniture fittings.
- Depending on the nature of complaint, committee takes appropriate decisions and carries out the maintenance work either in-house or with the help of external agencies.

b) Electrical Maintenance

- This committee is responsible for maintenance of all electrical fittings, panels, equipment, wiring, earth pits in the campus. This committee also takes care of the maintenance of generator that includes regular servicing, checkup for oil, filter, coolant etc. in the regular time intervals. Logs are maintained to keep track of these activities.
- This committee maintains the UPS (Uninterrupted Power Supply) that are installed (as per requirement) to support various equipment and computing facilities in the Labs.

- The details of the generators are a three phase electricity connection with 440 volt high tension and 22 kv electricity supply. 500 KVA transformer with service points for distribution is available. Adequate power backup is ensured for smooth conduction of academic and administration activities through two generators having capacity 125 KVA each in case of power failure.

c) Civil Maintenance

- Maintenance of academic, administrative buildings, roads, passages, drainage systems, hostel buildings is properly carried out. The civil maintenance work is monitored by the civil supervisor and civil engineer. Adequate safety measures are ensured through proper maintenance of the civil infrastructure and facilities.

d) Fire and Safety

- Adequate safety measures have been taken to ensure the safety in case of fire. On each floor of every building, firefighting equipment are installed at the strategic locations. Every year a training workshop is organized on how to use these equipment. Two fire hydrants in hostel and 68 fire extinguishers are installed all over the campus. Fire extinguishers are also provided in chemistry and environmental library where the chemicals are used for carrying out practical.

e) Computers and Peripherals

- Maintenance of the computers is carried out in house by systems and IT support Department and wherever required external agency is appointed for the specified work.

4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?

- The calibration is required for some of the equipment from Department of Mechanical, Civil engineering, Electronics & Telecommunication engineering and it is carried out after a fix interval and as and when required.
- IT support department is mainly concern with the repair of some hardware and software facilities in the computer center. Outdated hardware, equipments from laboratories are made obsolete after following the proper procedure.
- The softwares are upgraded as per the requirements. The concerned teachers- in-charges, Head Systems and IT Department inspects the working conditions of the computer labs and gives the necessary directions if required.

4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?

- 1) A backup facility is provided in the institute with two generators, 125 kVA each are provided for the same. Maintenance of these generators is done twice a year.

- 2) To protect the computers from voltage fluctuations UPS & MCB are provided in all the laboratories including computer center.
- 3) Fire hydrants, fire extinguishers are installed as safety and security measures in the entire campus. Regular fire audit is conducted.
- 4) For the safety of electrical maintenance skilled staff is appointed and due care is taken for the same.
- 5) To ensure continuous water supply skilled plumber is appointed and he looks after all the maintenance work of water supply lines.

Any other relevant information regarding Infrastructure and Learning Resources which the college would like to include.

- The institute has developed learning resources development center (LRDC) to facilitate the students and faculty.
- The management and the institute take efforts to upgrade and maintain the infrastructure of the campus and the laboratory.



CRITERION V: STUDENT SUPPORT AND PROGRESSION

CRITERION V: STUDENT SUPPORT AND PROGRESSION

5.1 Student Mentoring and Support

5.1.1 Does the institution publish its updated prospectus / handbook annually? If 'yes', what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?

Yes, Institute publishes the prospectus (Information Brochure) every year at the start of the academic year. Prospectus is given to the students along with application form. The prospectus/brochure is made available on institute website. It includes the necessary information as listed below.

- About Institute
- Institute's Governing Body,
- Principal's Message
- Courses offered by Institute
- Admission Procedure, Eligibility Criteria (as per the DTE rules)
- Institute's Anti Ragging Policy
- Department's Overview
- Infrastructure details and Facilities
- Training and Placement activities, Entrepreneurship Development Cell
- Women Grievance Cell
- Innovation Centre
- Alumni Association
- Institute Associations, Major Events and Activities, etc.

Newsire: In addition to above, institute publishes the NEWSWIRE, a six monthly bulletin, at the every semester. It covers the activities under the various cells in the institute like,

Overall Students Development cells, Training and Placement Cell, PCCOE Art Circle, Higher Studies Cell, Women Grievance Cell, Institute Social Responsibility, Physical Training & Sports Activities. The Newswire also gives an overview of the academic, research, social and industry institute interaction of respective departments.

5.1.2 Specify the type, number and amount of institutional scholarships / freeships given to the students during the last four years and whether the financial aid was available and disbursed on time?

The institute is keen in implementing all the government schemes for the larger benefits of the students. In addition to government funded schemes, the PCCOE is also instrumental in supporting the students in best possible ways. Following are the various scholarships / freeships provided to the students.

- The institute provides all the scholarships offered by the Government.

- The Leela Punawala foundation, Cummins, Persistent, RMD foundation scholarship, etc. for deserving students.
- Students are benefited by Earn & Learn facility in which 75% of the funds are contributed by the University and 25% by the institute.
- To motivate and appreciate the toppers, every year endowment prizes are given by the institute in the gathering.
- The institute provides fee waiver to the students who are not in a position to pay the fees and request for concession.

5.1.3 What percentage of students receives financial assistance from state government, central government and other national agencies?

- All eligible students enrolled under various categories, as mentioned in below table, are getting the financial assistance from the state government.
- State government EBC, OBC/ SBC, SC / ST / VJ / NT scholarships,
- J & K migrants Scholarship.

Number of students received financial assistance from state government:

Table 5.1 Financial Assistance to UG students by state Govt.

| Amount of Scholarships and Freeships sanctioned for CFY | | | | |
|--|---|------------------------------|---|------------------------------|
| Category | 2012-2013 | | 2013-2014 | |
| | <i>No. of students given Assistance</i> | <i>Scholarship Amount Rs</i> | <i>No. of students given Assistance</i> | <i>Scholarship Amount Rs</i> |
| ST | 247 | 18053826 | 304 | 24085145 |
| DTNT | 33 | 2205459 | 28 | 2684951 |
| SBC | 198 | 12680991 | 199 | 14310502 |
| OBC | 43 | 2864390 | 39 | 2744604 |
| EBC | 461 | 14834967 | 424 | 14825704 |
| Muslim Minority | 302 | 9279726 | 362 | 12349556 |
| Other Minority | 10 | 250000 | 12 | 300000 |
| STC/PTC | 12 | 300000 | 13 | 325000 |
| CSS | 46 | 184000 | 35 | 140000 |
| ST | 22 | 220000 | 7 | 70000 |
| Total | 1374 | 60873359 | 1423 | 71835462 |
| Amount of Scholarships and Freeships sanctioned for CFY | | | | |
| Category | 2014-2015 | | 2015-2016 | |
| | <i>No. of students given Assistance</i> | <i>Scholarship Amount Rs</i> | <i>No. of students given Assistance</i> | <i>Scholarship Amount Rs</i> |
| ST | 334 | 29330775 | 353 | 32110215 |
| DTNT | 62 | 4944744 | 60 | 5338968 |
| SBC | 228 | 17966424 | 234 | 19202666 |
| OBC | 47 | 3685233 | 51 | 4124962 |
| EBC | 457 | 18239310 | 493 | 12339060 |
| Muslim Minority | 340 | 12813704 | 415 | 16197691 |

| | | | | |
|----------------|-------------|-----------------|-------------|-----------------|
| Other Minority | 3 | 90000 | 7 | 175000 |
| STC/PTC | 10 | 300000 | 11 | 275000 |
| CSS | 45 | 180000 | 68 | 272000 |
| ST | 19 | 190000 | 19 | 190000 |
| Total | 1545 | 87740190 | 1711 | 90225562 |

Table:5.2 Financial Assistance to PG Students by AICTE

| Academic Year | Admitted Students | No of Gate Qualified Students | No. of Students receiving Gate Scholarship | % of students receiving financial assistance |
|---------------|-------------------|-------------------------------|--|--|
| 2015-16 | 69 | 19 | 19 | 27.54 |
| 2014-15 | 67 | 29 | 25 | 37.31 |
| 2013-14 | 53 | 16 | 14 | 26.42 |
| 2012-13 | 54 | 09 | 08 | 14.81 |

Table: 5.3 (a) Financial Assistance given to the students by some other foundations

| Academic Year | Name of Scholarship | No of qualified students | No of students receiving scholarship | % of students receiving financial assistance |
|---------------|---------------------|--------------------------|--------------------------------------|--|
| 2015-16 | Leela Poonawala | 18 | 18 | 100 |
| | Cummins | 4 | 4 | 100 |
| | Persistent | 3 | 3 | 100 |

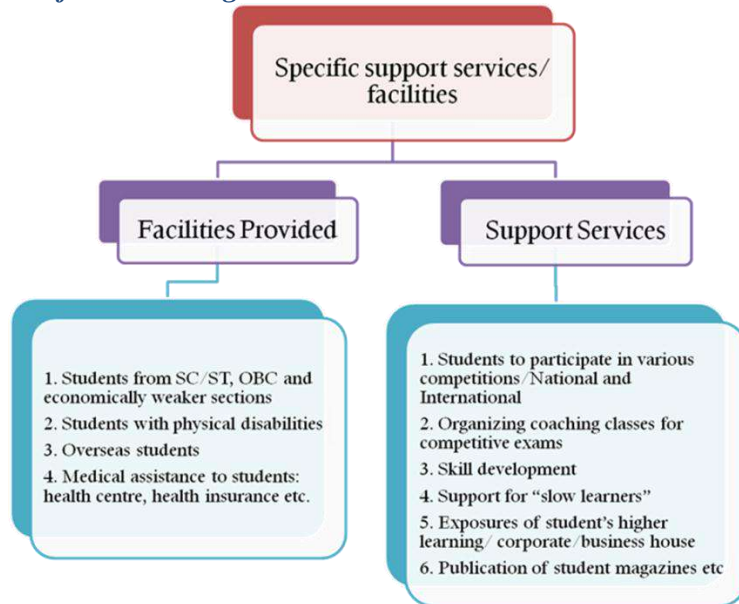
Table: 5.3 (b) Financial Assistance given to the students by some other foundations

| Type & Year | 2012-13 | 2013-14 | 2014-15 | 2015-16 | Total |
|---|-----------|-----------|-----------|-----------|------------|
| Rasiklal Manikchand Dhariwal | 8 | 19 | 27 | 21 | 75 |
| Jain Organisation | 1 | | | | 1 |
| NTSE, New Delhi Scholarship | 1 | | | | 1 |
| Calsoft Pvt. Ltd. | 1 | | | | 1 |
| Steria India Foundation | 1 | 1 | 9 | 8 | 19 |
| Shree All India Shwetambar Sthankwasi Jain Conference | 1 | 1 | 1 | 3 | 6 |
| V T Palresha & Co PVT LTD | | 1 | | | 1 |
| Gautam Labdhi Foundation, Chinchwad | | 1 | | | 1 |
| Mulachand Bora Trust | | 1 | | | 1 |
| Jilha Kalyan Karyalay | | 2 | | | 2 |
| Shantikumar Firodiya Memorial Foundation | | | 1 | | |
| Total | 13 | 26 | 38 | 32 | 108 |

5.1.4 What are the specific support services/facilities available for

- *Students from SC/ST, OBC and economically weaker sections*
- *Students with physical disabilities*
- *Overseas students*

- *Students to participate in various competitions / National and International*
- *Medical assistance to students: health centre, health insurance etc.*
- *Organizing coaching classes for competitive exams*
- *Skill development (spoken English, computer literacy, etc.,)*
- *Support for “slow learners”*
- *Exposures of students to other institution of higher learning/ corporate/business house etc.*
- *Publication of student magazines*



Facilities Provided:

Students from SC/ST, OBC and economically weaker sections:

- Facilitates the State Government scholarships to eligible students.
- Facilitates “Earn and Learn” scheme sponsored by SPPU, Pune and PCCOE.
- Book bank facility.
- Financial support for add on courses and soft skills course for needy students.
- Merit-cum-means scholarships to economically weaker students.
- Insurance provision that covers fees expenses for students who lost (demise) parents during study.

Students with physical disabilities:

- Elevators, ramps, wheel chairs are available in the campus.
- Preferences and flexibility in time for issue and exchange of books in library.
- During exams special sitting arrangement at ground floor is made.

Overseas students:

- The institute has received the permission to admit overseas students from the AY 2016-17, so provision is made for adequate hostel and mess facility.

Motivate students to participate in various competitions / National and International and Organizing coaching classes for competitive exams:

- Institute has dedicated Higher Studies Cell. This cell works for the promotion of Higher Education and preparation of various competitive examinations like GATE, GRE, CAT, TOEFL, MPSC, UPSC etc. This is done through
 - Organizing expert talks on examination like GATE / GRE / CAT.
 - Organizing training sessions / classes for competitive exams
 - Counseling sessions on higher education.
 - In campus coaching for GATE/GRE/CAT.
 - Preparatory sessions and mock examinations on GATE/GRE/CAT on intranet through preparatory software like GATE preparation software.
- Counseling at PTG level.
- Information related to such examinations is given to students on Notice boards, Socialites, through announcements by teachers in class etc.
- Special guidance by faculty and Industry experts
- Special budgetary provisions, equipment and infrastructural facilities are made available in the institute.
- An extended library and laboratory hours are provided as and when required.

Medical assistance to students: health center, health insurance etc.:

- The students are covered under the “Vidhayarthi Aarogya Seva Yojna” Policy in association with SPPU, Pune.
- First aid facility is available in each department
- The institute has signed MoU with the Sterling hospital, Nigdi.
- Emergency vehicle is available in campus.
- Professional Psychological Counselor is available for students counseling.

Skill development (spoken English, computer literacy, etc.):

- The “Communication and Personality Development Cell” at the Institute works for enhancing soft skills and other personality traits through various activities and training programs, Well equipped Language lab (Computer, Globerina Software and headphones) and faculty support is made available for students.
- Soft skill and Aptitude training program (80Hrs) is arranged for each student through various professional agencies.
- Various activities like Reader's club, Competition are arranged to improve upon communication skills.
- Periodic expert sessions are arranged on various topics like Technical writing, Presentation skills, Business communication etc.
- To develop the life skill of students, Art of Living Youth Empowerment program (24 Hrs.) is organized for each student, getting admitted to first year engineering.
- Various personality development sessions like Goal Setting, Team building, Time management, Success Mantra etc. is also arranged periodically.
- The “Professional Development Cell” at the Institute works for improving professional skills through various technical skill development programs and

Foreign Language Certification training.

- Students are given opportunity to get trained on recent technology/tools through various tie-ups and MoUs. Some of the courses arranged are MSIT .net (60Hrs.), IBM JAVA Enterprise Solution (60 Hrs), CATIA-V5 (50Hrs), CFD (80Hrs), PLC training (20Hrs) etc.
- Foreign Language training is also made available through tie up with trainers on various Languages like German, Japanese etc.
- The platform is also made available for the students to nurture and showcase their talents through Art Circle, Games and Sports club etc.
- The social commitment is imbibed in students through different activities organized under National Social Service (NSS) cell.
- Students are given opportunities to develop and nurture their leadership qualities through Student Associations, Student Council, Student Cells and working as volunteers in various events organized at Department/college level.
- Students are also encouraged to join or form special interest groups that allow them to connect with and contribute to their learning community.

Support for “Slow Learners”

- Remedial Classes for slow learners and poor performers.
- Special guidance, makeup tests, makeup activities.
- Course manuals, question banks and set of question papers of previous University examinations are provided.
- Model Answers & solutions are displayed and discussed.
- Students who are at risk of failure and dropout are identified based on the previous semester’s performance and are provided with counseling for performance enhancement.
- Counseling and individual attention by class teachers and parent teacher guardians.
- We have a Student Counseling cell to facilitate counseling and guidance for the slow learners.
- Extended library time during exams.

Exposures of students to other institution of higher learning / corporate / business house etc.

- Students participate in national level technical fests like SAE Supra, SAE BAJA, Mechfest, ROBOCON, CII NASSCOM Hackathon India, IEEE conferences, workshops and symposium etc.
- Co-ordination for Industrial visits arranged by various departments.
- Visits to regional level and national level exhibitions are organized.
- Students are motivated to participate in discussion forums, technology competitions, workshops, seminars and conference at other Institutes and Industries.
- Letters of Recommendation & Transcripts are provided to the students to promote higher studies.
- State Level Technical Event “Teclligent” is organized every year in which students

participate in various technical events.

- MOUs are signed with companies like Microsoft IT Academy ,Marsh Consultancy, Mantra CAD/CAM Solutions, Baker Gauges India Pvt. Ltd , Texas Instruments, MASSTRANS, B&R Automation India, TIFAC (Technology Information, Forecasting and Assessment Council), Central Institute of Plastic Engineering & Technology, Aurangabad , BOAT (Board of Apprenticeship Training, Ministry of HRD, Govt of India's Autonomous body) , KPIT Technologies, Infosys, Zensar/Synechron, Nvidia , IBM Centre of Excellence, Siemens , MITCON for industry-institute interaction.

Publication of student magazines

- “The Voyage” magazine published in the year 2015-16 which includes articles, poems, sketches, experiences, photographs of students.
- The Newsletter of PCCOE named "PCCOE NEWSWIRE" is published every six monthly.
- “TechnoKruti”, the Technical Magazine of Mechanical Engineering Department.
- WALL Magazine, an activity conducted in every department.
- “RIVISTA – E Bulletin" is getting published six monthly at departmental level.

5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.

- The Institute has the Entrepreneurship Development Cell (EDC), which consists of both faculty and student members.
- Entrepreneurship development is envisaged through training, counseling and information dissemination with major focus on developing attitude and skill building in students.
- Students are guided for effective preparation of business plan and execution map.
- Students are encouraged to develop their novel ideas into real life products.
- Commercialization support is provided for the student projects.
- Students have actively participated through various activities carried in institute and also outside of the institute.

Impact of the efforts

- Two days Entrepreneurship Awareness Camps sponsored by Department of Science & Technology (Government of India) was conducted.
- We have over 30+ Alumni Entrepreneurs who are having regular interaction with budding engineers. Alumni's are guiding students for identifying better business opportunities.
- Building, nurturing of team of experts in various fields and skill sectors is carried on regular basis.
- In association with MITCON, various skill development programs, Business Plan sessions are arranged.
- Webinars, Expert lectures and video screening sessions on entrepreneurial development

are regularly arranged in the institute.

- Competitions on Business Idea Presentation are held.
- Students have received awards in Entrepreneurship competitions.
- Students have launched their own startups under the “Dot Com incubator” program.

List of Entrepreneurship activities

Table:5.4 Entrepreneurship Activities conducted

| Sr. No. | Activity | Activity Description | Date | Resource Person | Organization | Beneficiary and No. of students benefitted |
|---------------------|-------------------------------------|---|-----------------------|-------------------------------------|------------------------|--|
| AY (2015-16) | | | | | | |
| 1 | Induction Program | Induction program for E-Cell | 15/07/15 | E-Cell Coordinators | PCCOE | Institute level students 150 |
| 2 | Contest on case-study based article | Interactive lecture | 02/09/15 | E-Cell Coordinators | PCCOE | Institute level students |
| 3 | Workshop on PCB Design | Lecture on designing PCB | 05/09/15 | Mr. M.M. Narkhede | PCCOE | S.E, T.E. (E&TC) 56 |
| 4 | Growpreneur: Video presentation | | 04/09/15 | E-Cell Coordinators | PCCOE | T.E, B.E. (E&TC, Comp) |
| 5 | Business Ideas Presentation | Presentation on business ideas | 07/09/15 08/09/15 | E-Cell Coordinators | PCCOE | Institute level students 80 |
| 6 | Techlligent Activities | Institute level techfest | 11/01/16 12/01/16 | E-Cell Coordinators | PCCOE | Institute level students 110 |
| 7 | Entrepreneurs hip Awareness Camp | Guest lecture | 30/01/16 31/01/16 | Science and Technology Park, Pune & | Science and Technology | Institute level students 98 |
| 8 | Alumni Entrepreneurs Interaction | Interactive session was arrange between alumni and students | 22/03/16 | E-Cell Coordinators | PCCOE | Institute level students 50 |
| AY (2014-15) | | | | | | |
| 1 | Entrepreneurs hip Awareness Camp | Guest lecture | 12/9/14 to 14/9/14 | MITCON | MITCON | All Mechanical Students |
| 2 | Induction Training | Training related to industry trends | 7-8/8/14 12/8/14 | Mech. Dept. | PCCOE | All SE Mech Students |
| AY (2013-14) | | | | | | |

| | | | | | | |
|---------------------|--------------------------------------|---|---|---------------------|----------------------|--------------------|
| 1 | Motivation Video Screening and Games | The Ultimate Business Mind (100 Rupees Game). | Sept., 2013 Jan., 2014 Feb., 2014 Mar., 2014 | Mech. Dept. | PCCOE | All SE TE students |
| AY (2012-13) | | | | | | |
| 1 | Expert talk | “Entrepreneurship Development” | 23/8/2012 | Mr.Suryakant Jadhav | Kedar Engineers Pune | All TE BE |

Following sessions were conducted by the experts in Entrepreneurship Awareness Camp:

- Entrepreneurship as a Career Choice.
- Technology assistance from R&D Laboratories and other institutions on choice of Technology etc.
- Historical Background – Indian Values vis-à-vis Entrepreneurship and the Present Scenario.
- Identification of Business Opportunities and Mechanisms of Product selection.
- How to Start a SME Unit? (General Concept about the Govt. formalities, Rules and Regulation, Location and Different Aspect of an industrial Venture)
- Technical and Commercial aspect of SME unit. (General Concept Only)
- Creativity and Business- the man behind the venture –the Behavioral scientist’s approach.
- Communication Skills for better results in business.
- Financial Aspects of SME unit including Salient Features of Project report.
- Schemes of assistance and Support available from Govt. Agencies, Banks, Financial Institutions, Etc.
- Experience Sharing by Existing Entrepreneur.

Due to various Entrepreneurship initiatives Students got motivated and chosen Self Employment as a career option like Rohit Ranade, Prashant Khedkar, Dayaram Gora, Sahil Sindhvani.

Details of some of our entrepreneurs are as follows:

- An Alumni Mr. Pravin Yalwande established an industry (Kulswamini Plastic Industries pvt. ltd.)
- Student of TEIT (2014-15) named Ajit Pokharkar has established a web based application development company.
- An innovative product ‘KAP-Roller Duster’ was developed by students of IT department.
- Suryakant Jadhav, Kedar Engineers, MIDC
- Puneet Lakhani, Creative Fibrotech, MIDC

- Rahuldeo Pande, NOVIUS Service
- Abhishek Muglikar, PORPELIS Engineers

5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co-curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.

- *additional academic support, flexibility in examinations*
- *special dietary requirements, sports uniform and materials*
- *any other*

Sports & Games

- Institute promotes participations of students in extracurricular and co-curricular activities.
- The Institutional policies include the provision of financial, academic and infrastructural support.
- At the beginning of the academic year students are called for Sports activity practices.
- College teams are formed on the basis of the individual's interest, regular practice & performance.
- The Institute participates in University level inter-collegiate sports competition & inter-engineering sports competition as well.
- Arrangement of specific time frame for sports & gymnasium activities are made.
- Attendance is compensated for leave of absence for the students participating in Sports events. Also the University authority, under ordinance O-163 has made provision for incentive marks for meritorious sportsman every year.
- Provide dietary requirements, sports uniform and material for the players by institute.
- Separate Physical Education & Sports department exist at the Institute which takes care of the needs.
- Record of participants is conveyed to university where students are granted marks for participating in sports at university levels.
- As per the institute policies students are felicitated and awarded by cash, sportswear & memento at the Institute for their remarkable performance in Sports activities.
- University level inter-collegiate sports competitions are organized at the Institute.
- Every academic year organizing annual inter class & departmental sports meet for all the boys & girls students of institute. 80% from total student strength participate in the said competition.

Cultural activities

- Institute has formed a separate cell for the Cultural activities named "PCCOE ART CIRCLE" which is observed by Dean Student Development and Welfare.
- Separate area (Canteen Basement) for Student Cells where PCCOE ART CIRCLE Office and Practice Space are allotted.
- At the beginning of academic year students are welcomed to showcase their artistic

skills in various forms by circulating a common notice. Interested students are further allowed and guided to be member of PCCOE ART CIRCLE to enhance their talents on stage performances.

- Various clubs/teams exist according to the ART form/skills such as Acting, Music & Dance, Sets Preparation, Backstage, Script Writing & Anchoring, Painting/Sketch, etc...
- Theatre Workshops are organized where the Expert Guests are called and sessions are conducted in various art forms which eventually helps, guides and motivates students to proceed further in different events with confidence.
- The Institute participates in activities like Purshottam Karandak, Gadkari Karandak, Dyankranti Karandak, Firodia Karandak, Sinhgad Karandak etc.
- Arrangement of specific time frame for extracurricular activities are made in the academic calendar itself. Planning of semester wise activities is presented and submitted to the Principal, Dean Student Development & Welfare, concerned Faculty Members and Students.
- Students are felicitated and awarded at the Institute for their remarkable performance achievement in Cultural activities and events.
- PCCOE ART CIRCLE organize a charity program named “Denyaryache Haath Ghyave” from which a part of the collected amount is donated for any current social cause like NAAM Foundation, Goshala, Orphanages etc.
- Many other events like Street Play’s focusing on Social Causes (For Deaf & Dumb Students, Road Safety, Traffic Rules, Swach Bharat Abhiyaan, Women’s Day, Self Defence, Stress Management etc.), Small Skits on various occasions (Independence Day, Republic Day, Gurupournima, Prerna etc.), Kavi Samellan. A Marathi Divas Celebration are organized under PCCOE ART CIRCLE every year which ultimately motivates students in Team Management, enhancing Social & Ethical Values, Improving Presentation & ART Skills, Vocabulary, Building overall Student’s personality, boosting Student’s confidence, enthusiasm and energy.
- This is followed by 2 days Annual Social Gathering/Cultural Event, “SWARTARANG” in the campus. Swartarang includes Theme based Cultural Program, Distribution of yearly Awards and Prizes in Academics, Research, Sports, NSS, ART CIRCLE.
- Many competitions & events like Rangoli, ART Gallery, Antakshari (For Faculty and Students), Kavi Samellan (Hindi and Marathi), Debate Competition, Fun Fair, Dhol Tasha Pathak are organized smoothly in these two days’ event.

5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, ATE / CAT / GRE / TOFEL / GMAT / Central /State services, Defense, Civil Services, etc.

Higher studies cell is functional in the institute under Students Development and Welfare pillar of the institute. The following facilities are made available in the institute under this cell.

- 1) GATE, GRE, CAT reference material, test series, online practice etc.
- 2) MoU with the institutes in the area of GATE, CAT and GRE for in-campus students' training since 2013.
- 3) MoU in pipeline for UPSC / MPSC civil service examination.
- 4) Adequate references in the form of books, CD's, for preparation of competitive entrance examination such as GATE, GRE, CAT, GMAT, TOEFL etc in central library and department library.
- 5) Club culture (GATE, GRE /CAT, MPSC/UPSC functional clubs) to prepare for GATE, GRE, CAT, UPSC examinations etc.
- 6) Necessary guidance and counselling by department coordinators and cell in charge to create an environment conducive for higher studies.
- 7) Guest lectures, seminars of various career and counselling agencies for higher studies throughout the year. The special talks, group discussion with our alumni to share their experiences and guidance.
- 8) Processing the applications for higher studies through the higher studies cell for necessary records and follow-up.

Few of the glimpses of Higher studies cell activities are shown in following images.



GATE awareness program by Imperial Institute



CAT/GRE awareness program by IMS Institute



Civil Services motivator and trainer Shri.Manohar Bhole (Unique Academy, Pune) in PCCOE for UPSC / MPSC counselling program.



Audience for Civil services counselling program.



Mock GATE examination on 22/01/2016



Nishant Pai BE Computer student sharing his experience of GRE preparations with TE students.

Table: 5.5 Students appeared and qualified in various competitive exams

| <i>Exam</i> | 2015-16 | | 2014-15 | | 2013-14 | |
|-------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| | <i>Appeared</i> | <i>Qualified</i> | <i>Appeared</i> | <i>Qualified</i> | <i>Appeared</i> | <i>Qualified</i> |
| GATE | 407 | 34 | 304 | 27 | 283 | 13 |
| GRE/TOEFL | 24 | 20 | 21 | 10 | 21 | 10 |
| CAT/MHCET | 21 | 13 | 36 | 05 | 15 | 03 |
| MPSC/UPSC | 12 | 05 | 07 | 00 | 03 | 00 |

5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)

The institute has established Counseling cell for the students. The cell consists of one faculty coordinator from each department. The cell prepare mental base of the students to accept, improve and desire for excellence in academics, research and overall development and it works in coordination with academic coordinators, class teachers and PTG's.

- A professional counselor is available to guide and counsel the students.
- General information is sent to all students of all the departments informing them of the services extended by the cell and availability of the professional counselor. The students are encouraged to seek guidance on academic, general or psychological issues, if required.
- Effective counseling, proper guidance at proper time and motivation with full involvement leads to the expected outcomes which are
 - Good attendance
 - Excellent academic results & overall performance
 - Increased Confidence level of our students
 - Participation in extra-curricular activities
 - Overall development of students
 - Improved decision making ability

Counseling services provided to the students in different ways like:

| | |
|---|---|
| Professional counseling (Friends cubical by professional counselor) | <ul style="list-style-type: none"> • Counseling on emotional, social, mental and spiritual level • Individual & group counseling • Enhancing the skill of performers • Encouraging the students who need motivation • Workshops for parent teacher guardians |
| General counseling (Parent teacher guardian Scheme) | <ul style="list-style-type: none"> • Observe and identify need of special care required (if any) and help to provide the same. • PTG can work as mediator between institute and students. • They can create awareness about various SDW initiatives like programs, events, activities amongst students. |
| Academic & Career counseling | <ul style="list-style-type: none"> • Extra efforts and counseling for weak learners in the class • Motivation to bright students in the class • Motivate for participation of students in various events • Counseling of students having less attendance • Create awareness about placements & higher studies • Create awareness & guide for developing technical skills |
| Counseling Cell (works at institute level) | <ul style="list-style-type: none"> • To identify the needs of the students & provide necessary guidance at institute level • To create awareness about various SDW initiatives like programs, events, activities amongst students through PTG's , Class teachers • Channelize the efforts taken in counseling in various departments in the institute and improve the expected outcome in various areas. |
| YES! + Youth Empowerment and Skills (YES!+) workshop | To equip students with necessary life skills such as <ul style="list-style-type: none"> • Excellent performance in academics and professional life • Nurture morals, ethics, and human values among the students • Develop sense of nationalism and social responsibility |

5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If 'yes', detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers (list the employers and the programmes).

Student Development and Welfare cell and Training and Placement cell identifies the career opportunities and training needed for student placements. The in-house training and guidance is provided through structured mechanism for career guidance and placement as shown in Fig. 5.1. Adequate support from external agencies like Co-cubes, Alma Connect, TCS campus commune, etc. is taken for training and assessment of students for soft skills, aptitude, group discussion, personal interviews, etc. which results in enhancing the student placements.

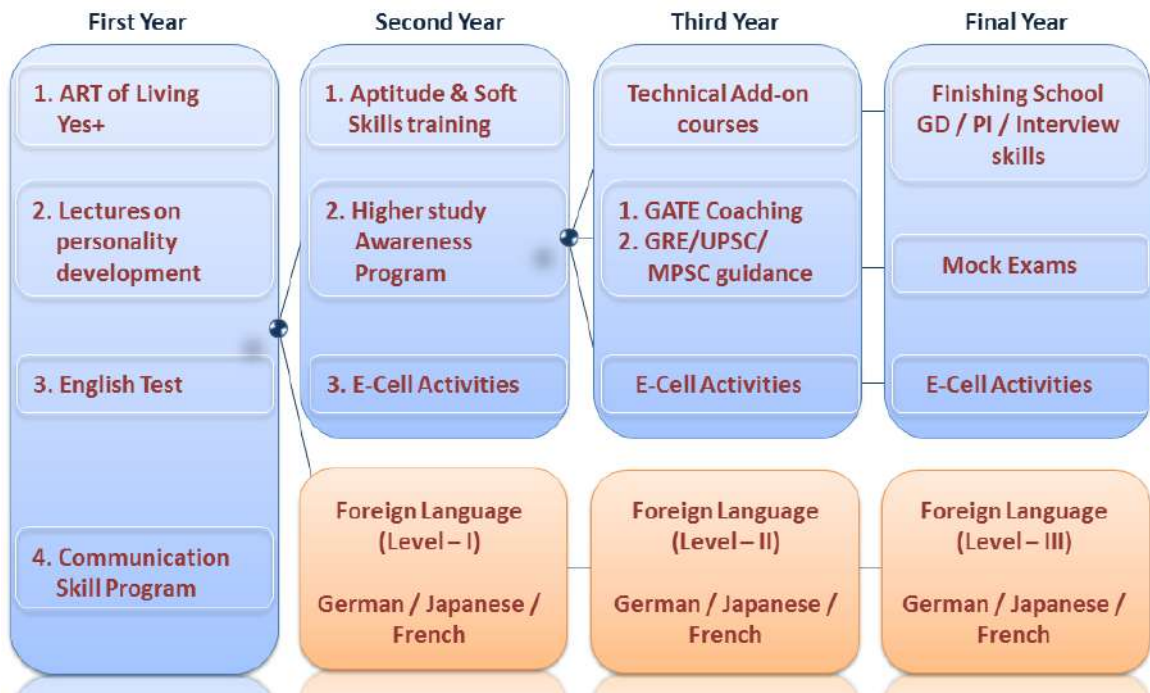


Fig. 5.1 Systematic Approach towards Professional Skill Development

- **List of Major Recruiters (No. of Students Selection)**

Table: 5.6(a) Major recruiters and students placed

| 2016 | | 2015 | | 2014 | | 2013 | |
|-------------------|--------------------------|-----------------------|--------------------------|--------------------|--------------------------|-----------------|--------------------------|
| Name of Company | No. of Students Selected | Name of Company | No. of Students Selected | Name of Company | No. of Students Selected | Name of Company | No. of Students Selected |
| KPIT Technologies | 183 | TCS | 125 | TCS | 104 | TCS | 101 |
| Capgemini | 50 | L&T Infotech | 87 | Capgemini | 36 | Synechron | 20 |
| L&T Infotech | 20 | KPIT | 45 | L & T Infotech | 10 | Zensar | 7 |
| Behr (Mahale) | 10 | Persistent | 15 | KPIT | 17 | Capgemini | 6 |
| Newgen | 9 | Mahle Behr India Ltd. | 13 | iGate | 6 | Varroc | 6 |
| Mercedes Benz | 8 | SKF | 13 | Tata Communication | 6 | Behr | 5 |
| Persistent | 8 | Capgemini | 9 | Behr | 6 | Opus | 4 |
| Tech Mahindra | 7 | Godrej | 9 | IBM | 4 | Faurecia | 3 |
| NTT data | 5 | L&T Tech Services | 9 | Flextronics | 4 | Godrej | 3 |
| 3DPLM | 4 | Mercedez Benz | 9 | TIBCO | 4 | Yodlee | 3 |

| | | | | | | | |
|---------|---|------------------|---|--|--|-------------|---|
| Xoriant | 4 | Varroc | 6 | | | Volks Wagan | 3 |
| | | IBM | 5 | | | SKF | 3 |
| | | Minda Industries | 5 | | | | |

- **Major Recruitment Drives**

Table: 5.6(b) Major recruiters and students placed

| Sr. No. | Name Of Company | Students Registered | Offers |
|---------|--|---------------------|--------|
| 1 | TCS (For students across Maharashtra) | 4500 | 640 |
| 2 | IBM (For students across India) | 3500 | 130 |
| 3 | Accenture (For students across Maharashtra) | 2200 | 219 |
| 4 | Cognizant (For students across Maharashtra) | 2000 | 392 |
| 5 | Patni (For students across Pune) | 1000 | 62 |
| 6 | TechMahindra (For students across Pune) | 800 | 71 |
| 7 | Infosys (For students across India) | 1500 | 90 |
| 8 | HP (For students across Maharashtra) | 3000 | 84 |
| 9 | KPIT (For students across Pune) | 1200 | 68 |
| 10 | L & T Infotech (For students across Maharashtra) | 2500 | 220 |
| 11 | Cap Gemini (For students across Pune) | 1200 | 75 |
| 12 | Amdocs (For students across Maharashtra) | 1500 | 70 |
| 13 | Oracle (For students across Pune) | 2200 | 52 |
| 14 | Quinnox (For students across Maharashtra) | 1200 | 34 |
| 15 | Z.F. Associates (For students across Maharashtra) | 550 | 20 |
| 16 | Wipro (For students across Maharashtra) | 250 | 23 |
| 17 | Synechron (For students across Pune) | 300 | 35 |

5.1.10 Does the institution have a student grievance redressal cell? If yes, list (if any) the grievances reported and redressed during the last four years.

Yes. The Institute has a student grievances redressal cell in place to address the grievances. Till date no major grievances reported.

5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?

PCCOE is committed to creating and maintaining a community in which students, teachers and non-teaching staff can work together in an environment free of violence, harassment, exploitation, intimidation and stress. This includes all forms of gender violence, sexual harassment and discrimination on the basis of sex/gender or amongst the same sex members. PCCOE has set up Women's Grievances Cell for maintaining the healthy and safe environment for girls and women employees in the campus.

Complaint Procedure

- The woman suffering from the problems of sexual harassment or gender discrimination have to submit the complaint either by formally in writing or informally to any members of the cell. These complaints will be discussed and resolved by the WGC members. Wherever appropriate & necessary the matter shall be referred to higher authorities for necessary action.
- All complaints will be handled in a confidential manner within a time bound framework.
- Orientation and awareness programmes are organized in collaboration with Pune police for faculty and students.

5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?

Yes. We at PCCOE are committed to provide healthy, friendly and ragging free environment to the fresher's and all students, in the Institute, to achieve academic and overall excellence in the field of Engineering Technology and Management. So institute has formed an Anti-ragging cell which works for taking preventive, timely and proper action in all the ragging cases including filing and follow up of FIR registered on the ragging cases.

- Promotion for anti-ragging is effectively done through activities like e-posters, social media, nukkad natak, NSS hoardings etc.
- We have appointed Nodal officer for Anti-ragging committee and substitute officer in his absence.
- Till date, no incident of ragging of any kind has been reported in the Institute.

5.1.13 Enumerate the welfare schemes made available to students by the institution.

We have Students Welfare, Grievance Handling Cell to enrich the welfare of students for their overall development and to ensure welfare Schemes carried out.

Student's welfare schemes

- Following SPPU social welfare scheme are offered to the students
 - Vidyarthini Vyaktimatwa Vikas, Board of Student Welfare, SPPU.
 - Vishesh Margadarshan Yojana' Board of Student Welfare, SPPU.
 - Vishesh Navinyapoorna Upakram, SPPU.
 - Karmaveer Bahurao Patil Earn and Learn Scheme of BSW – SPPU.
- Special Guidance Scheme for students
- Prerana - Personality Development Program for Girls
- Disaster Management at College level
- Health Services

In addition to above university schemes, the institute promotes following schemes:

Institute Social Responsibility Scheme

- Support in terms of books
- Support in terms of Mess facility

- Support in terms of accommodation

Others:

- **Leela Poonawala Foundation:** 25 students from PCCOE awarded scholarships from Leela Poonawala Foundation (18 girl students), Persistent Foundation (3 students) and Cummins India Foundation (4 students) in A. Y. 2015 - 16.
- **Cummins India Foundation**
- **Persistent Foundation**

Karmveer Bhourao Patil Earn & Learn Scheme for the students: Financial support for needy students initiated by SPPU, Pune. The main objective of this scheme is to develop a student as a multifaceted personality with academic excellence and a commitment to the society. Total 32 (11 Girls and 21 Boys) are benefitted by this scheme. Students working under this scheme are paid remuneration of Rs.30 per hour.

Special Guidance Scheme for students: Special Guidance Program is started for FE engineering and ME (HP) students. The main objective is to improve performance of students who were not able to perform well in Engineering Examinations. Special guidance lectures on various engineering topics are given by the academicians. In the year 2015-16, total 50 students were benefitted by this program.



Prerana - Personality Development Program for Girls: One day workshop “Prerana - Personality Development for Girls” was organized on 8th March 2016 to create awareness and build confidence among girl students. The workshop was conducted under the Board of Student's Welfare Savitribai Phule Pune University. The main objective of such kind of workshop is to make girl’s students aware about crime against women, law protecting Women's right, Yoga, Stress management and diet. Total 210 girls were benefitted by the workshop.



Disaster Management at College level: Disaster Management Workshop is conducted every year to aware students. This year it was conducted successfully on 20th March 2017 in PCCOE's seminar hall and on football lawn. Total 250 students participated in this workshop.

5.1.14 Does the institution have a registered Alumni Association? If 'yes', what are its activities and major contributions for institutional, academic and infrastructure development?

Yes. Institute has an alumni association name “Alumni Association of Pimpri Chinchwad College of Engineering, Pune”. Registration number: Maharashtra/150/2005/Pune, dated 2nd Feb.2005. Major activities and contributions of this association are:

- Support in placements.
- Expert lectures.
- Interaction with junior students (SE/ TE/ BE students).
- Interaction with faculty.
- Supports in departmental advisory boards.
- Online suggestions and problem/ query solving on Alma Connect portal.
- Support in guiding students for higher education (sometimes personal sessions and sometimes through Skype).
- Networking with other alumni.
- Arranging alumni meets.
- Getting feedback from alumni.

5.2 Student Progression

5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlight the trends observed.

On an average 5 to 10% student go for higher studies and around 95% of eligible students get selected in companies. Students opting for higher studies abroad take preparation gap and later join higher studies.

| Student Progression | % | | | |
|---|-------|-------|-------|-------|
| | 12-13 | 13-14 | 14-15 | 15-16 |
| UG to PG | 13.33 | 7.03 | 9.81 | 2.42 |
| PG to M.Phil. | NA | | | |
| PG to Ph.D. | NA | | | |
| Employed | -- | | | |
| <ul style="list-style-type: none"> • Campus selection • Other than campus recruitment | | | | |

Table: 5.7 Students opting for Higher Studies

| Sr. No. | Academic Year | Total students for higher studies | Total Students | Percentage of students for higher studies |
|---------|---------------|-----------------------------------|----------------|---|
| 1 | 2015-16 | 53 | 811 | 6.54 |
| 2 | 2014-15 | 37 | 639 | 5.79 |
| 3 | 2013-14 | 56 | 554 | 10.11 |

Table 5.8: Students Placement

| Academic Year | Total No. of offers students | Total No. of single offer students | No. of eligible students (with 60% Agg.) | Total No. of students | Placement % of total students |
|----------------------------------|------------------------------|------------------------------------|--|-----------------------|-------------------------------|
| Placement of UG Students | | | | | |
| 2015-16 | 526 | 468 | 496 | 811 | 57.71 |
| 2014-15 | 463 | 334 | 259 | 639 | 52.27 |
| 2013-14 | 265 | 234 | 213 | 554 | 42.24 |
| 2012-13 | 195 | 177 | 162 | 431 | 41.07 |
| Placement of PG Students | | | | | |
| 2015-16 | 87 | 79 | 86 | 175 | 45.14 |
| 2014-15 | 87 | 75 | 79 | 152 | 49.34 |
| 2013-14 | 97 | 87 | 74 | 175 | 49.71 |
| 2012-13 | 60 | 50 | 34 | 114 | 43.86 |
| Placement of ME Students | | | | | |
| 2015-16 | 23 | 23 | 47 | 80 | 28.75 |
| 2014-15 | 17 | 17 | 34 | 62 | 27.42 |
| 2013-14 | 32 | 32 | 36 | 67 | 47.76 |
| Placement of MBA Students | | | | | |
| 2015-16 | 25 | 23 | 32 | 40 | 57.50 |
| 2014-15 | 23 | 23 | 28 | 35 | 65.71 |
| 2013-14 | 19 | 19 | 20 | 50 | 38.00 |
| 2012-13 | 19 | 19 | 28 | 59 | 32.20 |
| Placement of MCA Students | | | | | |
| 2015-16 | 39 | 33 | 7 | 55 | 60.00 |
| 2014-15 | 47 | 35 | 17 | 55 | 63.64 |
| 2013-14 | 46 | 36 | 18 | 58 | 62.07 |
| 2012-13 | 41 | 31 | 6 | 55 | 56.36 |

5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Colleges of the affiliating university within the city/district.

The Institute programme wise pass percentage and completion rate for last four year is listed as follows for Under Graduates (UG) and Post Graduates (PG) courses:

Table 5.9: Passing percentage and completion rate for the last four years

| Department | Year | Passing % | Completion Rate (%) |
|-----------------------------------|-------------|------------------|----------------------------|
| Mechanical | 2015-16 | 85.49 | 80 |
| | 2014-15 | 95.67 | 74 |
| | 2013-14 | 94.95 | 74 |
| | 2012-13 | 94.33 | 65 |
| E & TC | 2015-16 | 97.03 | 87.85 |
| | 2014-15 | 99.53 | 72.99 |
| | 2013-14 | 97.99 | 69.76 |
| | 2012-13 | 98.85 | 66.95 |
| Computer Engineering | 2015-16 | 97 | 90.05 |
| | 2014-15 | 99 | 74 |
| | 2013-14 | 91 | 76 |
| | 2012-13 | 96 | 71 |
| Information Technology | 2015-16 | 100 | 80.77 |
| | 2014-15 | 100 | 69.88 |
| | 2013-14 | 100 | 79.17 |
| | 2012-13 | 90.84 | 67.9 |
| Civil | 2015-16 | 95.65 | 75.86 |
| | 2014-15 | NA | NA |
| | 2013-14 | NA | NA |
| | 2012-13 | NA | NA |
| MBA | 2015-16 | 80 | 74.4 |
| | 2014-15 | 84.8 | 75.6 |
| | 2013-14 | 86 | 86 |
| | 2012-13 | 86.2 | 84.7 |
| MCA | 2015-16 | 80 | 61 |
| | 2014-15 | 77 | 73 |
| | 2013-14 | 96.55 | 93 |
| | 2012-13 | 86.63 | 77 |
| ME (Mechanical Heat Power) | 2015-16 | 100 | 100 |
| | 2014-15 | 88.24 | 88.24 |
| | 2013-14 | 47.06 | 47.06 |
| | 2012-13 | NA | NA |
| ME (Mechanical Design) | 2015-16 | 88.23 | 88.23 |
| | 2014-15 | 94.11 | 94.11 |
| | 2013-14 | 73.33 | 73.33 |

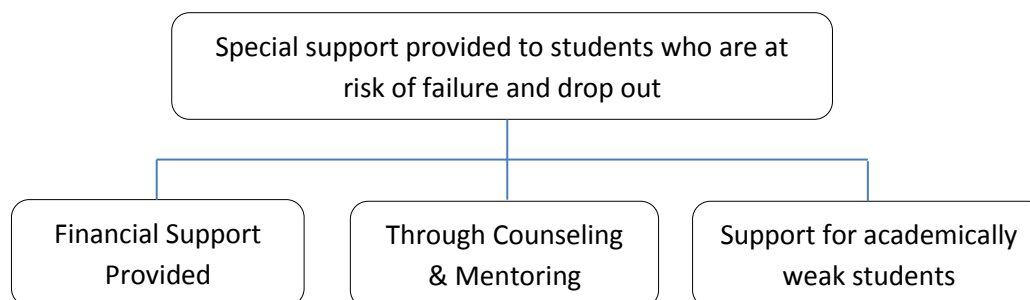
| | | | |
|------------------------|---------|-------|-------|
| | 2012-13 | NA | NA |
| ME (IT) | 2015-16 | 94.74 | 94.74 |
| | 2014-15 | NA | NA |
| | 2013-14 | NA | NA |
| | 2012-13 | NA | NA |
| ME (E & Tc) | 2015-16 | 87.5 | 87.5 |
| | 2014-15 | 100 | 100 |
| | 2013-14 | 76.47 | 76.47 |
| | 2012-13 | NA | NA |
| ME (Comp) | 2015-16 | 100 | 89 |
| | 2014-15 | 100 | 100 |
| | 2013-14 | 100 | 94 |
| | 2012-13 | 100 | 100 |

5.2.3 How does the institution facilitate student progression to higher level of education and/or towards employment?

PCCOE facilitate students progression to higher level of education by providing the required awareness, counseling, guidance, training through MoU with trainers and facility creation like study material in soft and hard form, promoting club culture etc. in the campus through Higher studies cell. The detailed discussion on structure, objective, functioning, activities, clubs, MoU and achievements of the cell are mentioned in 5.1.7 (Please refer 5.1.7).

5.2.4 Enumerate the special support provided to students who are at risk of failure and drop out?

The institute has developed a strategy to provide support for students who are at the risk at failures and drop outs.



Support for academically weak students

- Conducting extra remedial lectures for slow learners identified through unit test, university examination, etc. who are on the risk of failure.
- To avoid or minimize the number of critical cases, time to time information is send to parents through SMS, Phone calls etc. and prior undertaking is taken from the parent.
- Providing Question bank, notes to the students for improving subject wise

performance.

- Continuous monitoring through progressive assessment to observe his/her overall performance.
- Extra practical sessions are engaged for practice and to build confidence before appearing for final oral examination.

Through Counseling & Mentoring

- Counseling through Parent Teacher Guardian meeting to motivate the students to improve their performance.
- Forwarding some special cases for counseling through professional counselor at institute level.

Financial Support:

- Providing assistance to get financial support from other organizations like Leela Poonawala Foundation, Persistant Foundation and Cummins India Foundation. 25 students from PCCOE awarded scholarships from Leela Poonawala Foundation (18 girl students), Persistant Foundation (3 students) and Cummins India Foundation (4 students) in A. Y. 2015-16.
- Earn & learn scheme
- Extra time duration for payment of fees

5.3 Student Participation and Activities

5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.

SPORTS ACTIVITIES

| | |
|---|---|
| <p>Sports</p> <ul style="list-style-type: none"> • National level • University level • Zonal level • Institute level | <p>Games</p> <p>Indoor Games:</p> <ul style="list-style-type: none"> • Table Tennis • Chess • Carom • Badminton <p>Outdoor Games:</p> <ul style="list-style-type: none"> • Basket Ball • Kho-Kho • Volley-ball, • Cricket, • Football, Handball & Netball • Gymnasium (For Boys & Girls) |
| <p>Extra- Curricular</p> <ul style="list-style-type: none"> • Techlligent: National Level Symposium • Spectrum: State Level Event for FE Students • Insperia, • Zest | <p>Cultural: PCCoE Art Circle</p> <ul style="list-style-type: none"> • Purushottam Karandak • Firodiya Karandak • Gadkari Karandak • Dyankranti Karandak • Charity Program “Denyaryache Haath Ghyave” |

| | |
|---|--|
| <ul style="list-style-type: none"> • National Service Scheme (NSS) • Institute Social Responsibility (ISR) • Yes '+' (Art of living) | |
| Different Clubs <ul style="list-style-type: none"> • Readers Club • Cultural club • Physics club • Photography club • Techno-science club • Chemistry club • Matholic | |

Sports and Games

- **Number of team participation in various level sports competition.**

| Sr.No. | Level | Number of teams participated | | | |
|--------|-------------------|------------------------------|---------|---------|---------|
| | | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 1 | Inter Collegiate | 16 | 13 | 10 | 7 |
| 2 | Inter Engineering | 21 | 6 | 2 | 3 |
| 3 | Association | 1 | 0 | 0 | 0 |

- **Number of sports competition organized by the institute**

| Sr.No. | Level | Number of event organized | | | |
|--------|--------------------|---------------------------|---------|---------|---------|
| | | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 1 | Inter Collegiate | 1 | 1 | 1 | 1 |
| 2 | Inter Engineering | 0 | 0 | 2 | 2 |
| 3 | Annual inter class | 6 | 11 | 11 | 11 |

Cultural Activities:

PCCOE Art Circle: was established in the academic year 2013-14 to cultivate and nurture the overall student development aspects and social concern amongst students. This cell comprises of 400 students enrolled under various art forms from different branches and courses of college.

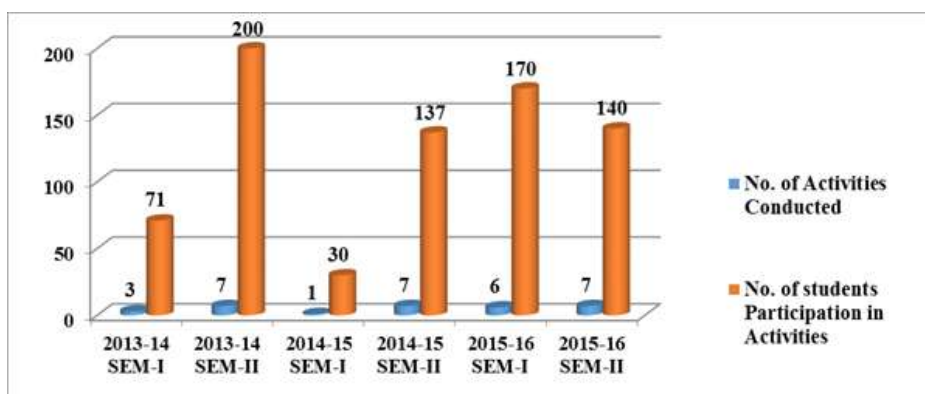
Many workshops and training programs are conducted to guide and develop students in variety of art forms like drama, music, script writing, lights and stage management, Flex/poster- painting/drawing etc.

Objectives:

- To help and motivate students to develop/enhance their overall personality, management skills and to involve them in extracurricular and other student development activities.
- Spiritual development of the students in various fields by inculcating social and ethical values in them.
- To help society by undertaking issues of social concern.

Expected Outcomes:

- Creative Thinking and Skills Improvement
- Overall Personality Enhancement
- Poster Presentations, Innovative Model making
- Improvisation in various art Skills
- Incorporation of cultural and social values
- Innovative Thinking and Management Skills



Activities Conducted:

Overview of College Level Activities Conducted in 2015-16 (SEM-I) :

| Sr. No. | Event name | Conduction dates |
|---------|--|---|
| 1 | Theatre workshop for newly joined students | 12 th and 13 th July 2015 |
| 2 | Purushottam Karandak 2015 | 24 th August 2015 |
| 3 | Independence Day Celebration | 15 th August 2015 |
| 4 | Participation in 5 th Pune Short Film Festival 2015 | 2 nd September 2015 |
| 5 | Street Play on “Awareness of Discipline” in Students | 9 th September 2015 |
| 6 | Vinodottam Karandak 2015 | 1 st October 2015 |

| Sr. No | Name of Activity & Date | Venue | Remarks |
|-----------------------|---|-----------------------------------|--|
| 2014-15 SEM-I | | | |
| 1 | Purushottam Karandak organized by "Maharashtriyas Kalopasak" -18 th August 2014 <u>30 Students</u> | Bharat Natya Mandir, Pune | Presented Play- “Indradhanu” |
| 2014-15 SEM-II | | | |
| 2 | Gadkari Karandak organized under Akhil Bhartiya Natya Parishad - 24 th Jan 2015. <u>13 Students</u> | Ramkrishna More Sabhagriha, Pune | Subodh Pawar (TE Mech) got Best Actor Award in the play “Kora Chaha Via NH-4”. |
| 3 | Firodiya Karandak organized under Sahmati, Pune - 1 st Feb 2015. <u>28 Students</u> | Jawaharlal Nehru Auditorium, Pune | Play “A Table for two” |

| | | | |
|-----------------------|--|--|---|
| 4 | Performed a play “Castling” on account of Manthan Yatra- 1 st March 2015 <u>11 Students</u> | MG Road Pune | The play was based on “Women Security” |
| 5 | Participated in Street Play Competition at DEKH BHAI DEKH- 12 th February 2015 <u>30 Students</u> | Symbiosis Institute of Media & Communication, Pune | Won 2 nd Prize. |
| 6 | Participated in Street play Swachha Bharat Abhiyan (written and directed by Akash Thite) performed at Inperia 2015 - 6 th and 7 th February 2015. <u>20 Students</u> | MCA Dept, PCCOE | This play was much appreciated by the audience and was performed at various occasions further. |
| 7 | Maharashtra Times Pune Division has conducted carnivals in association with PCCOE ART CIRCLE for movie promotions Mitwa- 9 th Jan 2015 and Baji on 15 th Jan 2015. <u>15 Students</u> | PCCOE, Pune | Participated Approx. 200 students |
| 8 | Presented a Program of Act and Patriotic Songs- 26 th Jan 2015. <u>20 Students</u> | PCCOE, Pune | Theme of the program was “Swachha Bharat Abhiyan”. |
| 2013-14 SEM-I | | | |
| 1 | Purushottam Karandak- Ek Khel Madaricha -18.8.13 <u>30 Students</u> | Bharat Natya Mandir, Pune | Lokesh Patil-(TE Mech) :Best Actor Award |
| 2 | IIT TechFest – Sept., 2013 <u>30 Students</u> | PCCOE, Pune | Secured 2500 points, Created and presented 200+ posters on different social subjects/concerns |
| 3 | AbhivyaktiEvent- 6 th and 7 th September 2013 <u>7 Students</u> | MIT, Kothrud-Pune | 11 students participated |
| 2013-14 SEM-II | | | |
| 4 | Denyaryache Haath Ghyave- PCCOE Charity Event- 2 nd January 2014 <u>84 Students</u> | Ramkrishna More Auditorium Chinchwad, Pune. | Rs. 1 Lac was donated to Mr. Hanumant Garade and Rupesh Garade, Founder (Jagatguru Sant Tukaram Goshala, Maval-Dhamane) in the form of medicines for poor cattle. |
| 5 | Spandan(Lights, Camera, Action) event- Skit Competition -9 th Jan 2014 <u>11 Students</u> | ATSS College, Chinchwad- Pune | Winner Trophy |
| 6 | Maharashtra Times FLOAT (Promotion of Marathi Movie - AkkalPit)- 10 th Jan 2014 | PCCOE, Pune | 300+ Students |

| | | | |
|----|--|----------------------------------|--|
| 7 | A Play on-Journey Towards Rise- 26 th January 2014 | PCCOE, Pune | Theme: Facing today's challenging situations in the society and hope to Rise from this situation |
| 8 | Gadkari Karandak organized under Akhil Bhartiya Natya Parishad - 22 nd Jan 2014. Play "Ek Khel Madaricha" <u>30 Students</u> | Ramkrishna More Sabhagriha, Pune | Akash Thite (TE Mech)- Best Actor Award |
| 9 | Firodiya Karandak organized under Sahmati, Pune -2 nd Feb 2014. Play "Ani Awaaz Harvat Gela" <u>30 Students</u> | MIT, Pune | Akash Thite (TE Mech)- Best Actor Award |
| 10 | Entertainment Programme on "Traffic Rules –Regulations and Safety" jointly organized with NSS <u>15 students</u> | PCCOE, Pune | Presented Play- "Varhad Nighala London La" |

Curricular activities at Institute Level:

Curricular activities carried out under Techlligent banner are as follows.

| Techlligent Events | Spectrum Events |
|---|---|
| <ul style="list-style-type: none"> • Project Competition • Paper / Poster Presentation • Robothrive • Mad-ads • Blind Coding • Contraption • Puzzle Mania etc. | <ul style="list-style-type: none"> • Spot model making • Paper presentation • Circuit Wizard • Aero-modeling • C-coder • Contraption • Brain Dasher • Aqua boat mania • Robo soccer • Short movie |

Techlligent: National Level Symposium

| Year | Date | No. of Participants |
|-------------|-----------------|----------------------------|
| 2016 | Jan 11-12, 2016 | 3,032 |
| 2015 | April 1-2, 2015 | 2,331 |
| 2014 | Feb 25-26, 2014 | 5,000 |
| 2013 | Feb 24-25, 2013 | 4,000 |
| 2012 | Feb 17-18, 2012 | 8,000 |
| 2011 | Mar 15-16, 2011 | 2,000 |
| 2009 | Mar 5-7, 2009 | 250 |
| 2008 | Mar 28-29, 2008 | 300 |

Spectrum: State Level Event for FE Students

| Year | Date | No. of Participants |
|------|--------------|---------------------|
| 2016 | Mar 20, 2016 | 1160 |
| 2015 | Mar 27, 2015 | 1107 |
| 2014 | Mar 15, 2014 | 1261 |
| 2013 | Mar 24, 2013 | 509 |
| 2012 | Feb 19, 2012 | 572 |
| 2011 | Mar 17, 2011 | 180 |
| 2010 | Mar 17, 2010 | 190 |
| 2009 | Mar 17, 2009 | 131 |
| 2008 | Mar, 2008 | 180 |

Co-curricular activities:

| S.N. | Activity Name | S.N. | Activity Name |
|------|--|------|---|
| 1. | National Days Celebration | 10. | Food Donation to the Warkari Palakhi |
| 2. | Tree Plantation | 11. | Financial help of Rs. 41101/- to NAAM foundation |
| 3. | Teachers Day | 12. | Education to unprivileged school children. Computer literacy program in Zilla Parishad School, Varali, Dist – Pune for students of Std-V, VI, and VII. This activity was organized throughout the year on weekly basis. |
| 4. | Nirmanya collection during Ganesh Festival | 13. | Visit to TARA ORPHANAGE. Donated eatable items such as Bournvita, Oats, Cerelac, etc of Rs. 7500/- |
| 5. | Blood Donation Camp | 14. | Organized a helmet awareness rally. |
| 6. | Cleanness drive | 15. | Social Study tour to Hiware Bazar village, Dist Ahmednagar |
| 7. | Pedestrian day celebration | 16. | “ Motivational Video” “ To aware about the environmental issues“ |
| 8. | Special winter residential camp | 17. | To plan and execute projects for physically challenged persons. |
| 9. | Awareness lecture | 18. | To organize NSS activities, NSS camp etc. |

5.3.2 Furnish the details of major student achievements in co-curricular, extracurricular and cultural activities at different levels: University / State / Zonal / National / International, etc. for the previous four years.

Student achievement in Co-curricular, extracurricular and cultural activities**AY 2015-16**

Winners

a) **Chess:** Chess team won Inter Collegiate Chess Competition & got Team Championship Award. Saurabh Patil, Saurabh Bedmutha secured first & Seventh respectively individual ranking Out of 238 participants.

b) **Football:** Football Team won Inter Engineering Tournaments

| Sr.No. | Event | Dates | Organizer | Result |
|--------|-----------------|--|-----------------|--------|
| 1 | Football (Boys) | 24 th - 26 th Dec. 2016 | Zeal COE, Narhe | Winner |
| 2 | Football (Boys) | 3 rd - 7 th Feb. 2016 | ISBM, Pune | Winner |
| 3 | Football (Boys) | 4 th - 6 th Feb. 2016 | DYPCOE, Akurdi | Winner |
| 4 | Football (Boys) | 12 th - 13 th March 2016 | I2IT, Pune | Winner |

c) **Lawn Tennis** – Aishwarya Ingle won Inter Collegiate Lawn Tennis (Girls) Competition.

Runners Up

a) **Badminton (Girls):** Badminton Girls Team Secured Second Place in Inter Collegiate Badminton Competition.

b) **Football (Boys):** Football Team Secured Second Place in Inter Collegiate Football Competition.

Total 64 teams were participated in the competition.

4 Students were selected in Pune District Team for Inter Zonal Handball Competition.

Team secured inter engineering tournament organized by Cummins COE, Pune
Team Secured Second Place in Inter Engineering Football Competition (Sihgad Karandak).

c) **Kho-kho (Boys):** Kho-kho team secured second place in inter engineering tournament organized by Cummins CoE, Pune.

University Players: Following students got selected in Savitribai Phule Pune University Team for West Zone & All India Inter University Sports Competition.

| Sr.No. | Student Name | Class | Event |
|--------|-----------------|----------|-------------|
| 1 | Aishwarya Ingle | BE Civil | Lawn Tennis |
| 2 | Aishwarya Nikam | SE Civil | Hockey |

Inter Zonal Players: Following students got selected in Pune District Team for Inter Zonal Sports Competition.

| Sr.No. | Student Name | Class | Event |
|--------|-------------------|---------|--------------|
| 1 | Katti Vedant | SE E&TC | Table Tennis |
| 2 | Patil Shriyash | BE Mech | Table Tennis |
| 3 | Firke Kartik | FE | Swimming |
| 4 | Kulkarni Narendra | BE Mech | Swimming |
| 5 | Gadade Sanjeevani | TE IT | Swimming |
| 6 | Patil Saurabh | TE Mech | Chess |
| 7 | Tangade Atul | TE Mech | Handball |
| 8 | Adarsh Wankhede | FE | Handball |

| | | | |
|----|-------------------|----------|-------------|
| 9 | Kulkarni Bhakti | BE E&TC | Badminton |
| 10 | Thombare Ruchita | SE IT | Badminton |
| 11 | Chinchkar Rohan | FE | Badminton |
| 12 | Ayesha Shaikh | FE | Basketball |
| 13 | Kulkarni Sharvari | FE | Basketball |
| 14 | Ingle Aishwarya | BE Civil | Lawn Tennis |
| 15 | Amey Parkhi | TE Mech | Football |
| 16 | Kalbhore Rohan | BE Mech | Football |
| 17 | Dhawale Tejas | BE Comp | Football |
| 18 | Rane Anand | SE Comp | Football |
| 19 | Aishwarya Nikam | SE IT | Hockey |

AY 2014-15

• Remarkable Student Achievement

- **Aishwarya Nikam** (FE E&TC) She got Best Hockey National Player Award in Girls by the Hands of President of India at New Delhi on 15th Aug. 2014.
- She has selected in Savitribai Phule Pune University Hockey Girls Team for Inter University Hockey Tournament.
- She is also selected in Under-19 Maharashtra Girls Team for National Tournament.

• Following students were selected in Pune District Team for Inter Zonal Sports Competitions.

| Sr.No. | Name | Class | Event |
|--------|------------------|----------|--------------|
| 1 | Abhishek Chavan | BE Mech | Chess |
| 2 | Saurabh Patil | SE Mech | Chess |
| 3 | Vedant Katti | FE | Table Tennis |
| 4 | Aishwarya Ingle | TE Civil | Tennis |
| 5 | Atish Prabhune | TE Mech | Tennis |
| 6 | Aishwarya Nikam | FE | Hockey |
| 7 | Dipanshu Nagpal | FE | Badminton |
| 8 | Bhakti Kulkarni | TE E&TC | Badminton |
| 9 | Ruchita Thombare | FE | Badminton |
| 10 | Tejas Joshi | BE Mech | Football |
| 11 | Sunit Gupte | BE Mech | Football |
| 12 | Atul Tangade | SE Mech | Handball |
| 13 | Badal Pekale | BE Mech | Handball |

College Achievements

Badminton:

- PCCOE Badminton (Girls) team won inter collegiate competition held at Dr.D.Y.Patil School of Engineering, Lohegaon.
- Bhakti Kulkarni (TE E&TC) & Ruchita Thombare (FE E&TC) secured individual 1st& 2nd ranking respectively & both got selected Inter Zonal Badminton

Competition.

Tennis:

- Aishwarya Ingle (TE Civil) won Inter Collegiate Tennis Competition held at Sihgad Commerce College, Kondhwa.

Football:

- PCCOE Football Team Won Inter Engineering Football Tournament “Sihgad Karandak” organized by Sihgad Institute of Technology, Lonavala.
- Tejas Joshi awarded as best attacker of the tournament in Sihgad Karandak
- PCCOE played semifinal round in inter collegiate football tournament.
- Sunit Gupte Awarded ast Best Defender of the Tournament in inter collegiate football tournament.
- Two students Sunit Gupte & Tejas Joshi got selected in Pune District team for Inter Zonal Competition.

Chess:

- PCCOE Chess team secured second Place in Inter Collegiate Chess Competition held at Pratibha College of Commerce & Science, Chinchwad, Pune.

Kho-Kho (Boys):

- PCCOE Kho-kho boys team secured second Place in Inter Engineering kho-kho Competition organized by COMMINS College of Engineering, Pune.

Kho-Kho (Girls):

- PCCOE Kho-kho Girls team secured second Place in Inter Engineering kho-kho Competition organized by Dr.D.Y.Patil School of Engineering, Ambi, Talegaon. Pune.

AY 2013-14

• **Two Students Were Selected in University of Pune Team**

- 1) **Aishwarya Ingle** (SE Civil) was selected in University of Pune Lawn Tennis Team for West Zone Inter University & All India Inter University Lawn Tennis Tournament.
 - a) Aishwarya got silver Medal in West Zone Inter University Tournament.
 - b) She also won Inter Collegiate & Inter Zonal Lawn Tennis Tournament.
- 2) **Abhishek Chavhan** (TE Mech) was selected in University of Pune Chess Team for West Zone Inter University & All India Inter University Chess Tournament.
 - a) He got silver Medal in West Zone Inter University Tournament.
 - b) Abhishek Chavan secured 3rd individual rank in Inter Collegiate Chess

Tournament & 5th rank in Inter Zonal Chess Tournament.

- **Seven students were selected in Pune District Team**
 - 1) Rohan Bhawe (BE Mech) ----- Cricket
 - 2) Aishwarya Ingle (SE Civil) ----- Lawn Tennis
 - 3) Atish Prabhune (SE Mech) ----- Lawn Tennis
 - 4) Abhishek Chavan (TE Mech) ----- Chess
 - 5) Narendra Kulkarni (SE Mech) ----- Swimming & Waterpolo
 - 6) Siddhant Prabhu (FE) ----- Handball
 - 7) Pratiksha Patil (SE Comp) ----- Kho-Kho
- **Special Achievements in Inter Collegiate & Inter Engineering Sports Competition**
 - 1) **Cricket:**
 - PCCOE Cricket Team Participated in Inter Collegiate Cricket Tournament under University of Pune & secured 4th place.
 - Secured 2nd place in Inter Engineering Cricket Tournament organized by Dr. D.Y.Patil College of Engineering, Ambi, Talegaon.
 - Also participated in inter Collegiate Cricket Tournament organized by Trinity COE, Zeal College of Engineering.
 - Our Students shown Special performance in cricket tournaments.
 - 2) **Football:**
 - PCCOE Football Team Participated in Inter Collegiate Football Tournament under University of Pune & secured 4th place.
 - PCCOE Football Team Won in Inter Engineering Football Tournament organized by Dr.D.Y.Patil College of Engineering, Akurdi.
 - PCCOE Football Team Secured Second Place in Engineering Football Tournament organized by our college under Techligent 2014.
 - Also participated in inter Collegiate Football Tournament organized by SIT, Vadgaon, COEP, Pune, AIT, Dighi, AISSMASCOE, Pune, VIT, Pune, Cummins COE, Pune, Indian, YCP, PCCOE, Nigdi
 - Our Students shown Special performance in cricket tournaments.
- **Sports Competition Organized**
 - Our College has Organized Inter Collegiate Handball (Girls) Tournament under University of Pune.
 - Also Organized Invitational State Level Inter Engineering Football & Box Cricket Tournament under PCCOE Techlligent'14.
 - This year our college has organized 11 sports event for all boys & Girls Student of PCCOE.
 - Competition were started from 31st January 2014 & Finished at 2nd April 2014.

AY 2012-13

- 1) PCCOE Football team won 5 Inter Engineering Football Tournament, Sihagad Karandak, AIT Cup, Satej Karandak, VIT Melange Cup, I2IT Cup & runner-up in COEP Football Cup.
- 2) PCCOE Chess Team Won General Championship in Inter Collegiate Chess Competition.
- 3) PCCOE Swimming Team won 3 Gold medal & 2 Silver medals in Inter Collegiate Swimming Competition.
- 4) PCCOE student Tejas Suryawanshi (SE Mech) won 7 Gold medal in Inter Engineering Swimming Competition organized by COEP, VIT.
- 5) PCCOE student Saurabh Deshpande (TE Mech) secured second place in Inter Collegiate Cycling Competition.
- 6) PCCOE Waterpolo Team secured second place in Inter Collegiate Competition.
- 7) 3 PCCOE students represented University of Pune Team for All India Inter University Sports Tournament, Amrut Totkar (Kho-kho), Aishwarya Ingle (Tennis), Vishal Gujrathi (Chess)
- 8) 14 PCCOE Students represented Pune District Team for Inter Zonal Sports Tournament organized by University of Pune, Amrut Totkar (Kho-kho), Vishal Gujrathi , Abhishek Chavan (Both for Chess), Kulkarni Narendra, Suryawanshi Tejas, Bisht Himanshu, Shelke Nachiket (All for Swimming & Waterpolo), Omkar Pujari (Football), Rohan Bhave (Cricket), Aishwarya Ingle, Atish Prabhune (Both for Tennis), Saurabh Deshpande (Cycling), Ajit Pokharkar (Handball) & Shriyash Patil (Table Tennis).

• Annual Inter Class Sports Meet “Sangharsh’2013

- 1) PCCOE Sports department organized annual inter class sports meet “Sangharsh’2013” from 2nd feb. to 29th March 2013.
- 2) 11 sports event organized for students (For Boys, Girls & Staff).
- 3) IT Department awarded as a Best Department in annual inter class sports meet 2013.
- 4) Amrut Totkar (BE Mech) awarded as a Best Player in year 2012-13.
- 5) Aishwarya Ingle (FE) awarded as a Best Player in year 2012-13.
- 6) Omkar Pujari (Sports Secretary), Akshay Nagawade (Co-Sports Secretary) coordinate and all student event organizers help in successful organization of Annual Inter Class Sports Meet “Sangharsh’2013”.

• Inter Collegiate Sports Tournament Organized

1. Organized Inter Collegiate Table-Tennis Tournament under Pune District Sports Zone, Pune University. Organized Inter Collegiate Football Tournament under social work program

- **Number of students selected for sports competition**

| S. No. | Level | Number of student selected | | | | |
|--------|------------------|----------------------------|---------|---------|---------|---------|
| | | 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| 1 | National level | 00 | 00 | 01 | 00 | 00 |
| 2 | University Level | 00 | 02 | 01 | 02 | 03 |
| 3 | Zonal Level | 07 | 19 | 09 | 07 | 14 |

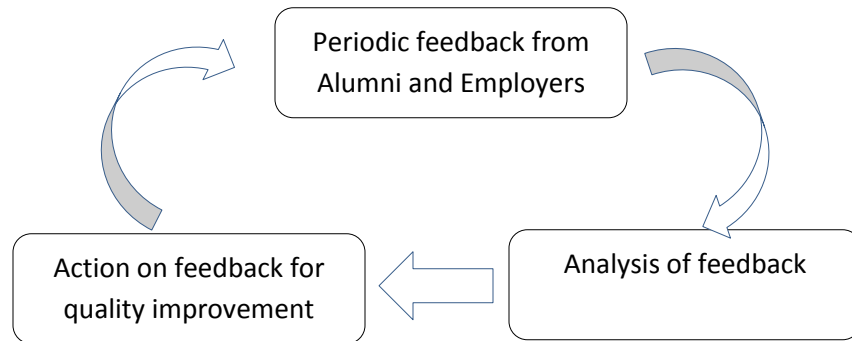
- **College Achievements in sports competition.**

| S. No | Year | Event | Place | Competition |
|-------|-----------------|-----------------|----------------------------------|----------------------------------|
| 1 | 2016-17 | Chess | Winner | “Inter Collegiate Competition”. |
| 2 | | Tennis (Girls) | Winner | “Inter Collegiate Competition”. |
| 3 | | Badminton | Runner | “Inter Collegiate Competition”. |
| 4 | | Badminton | Runner | “Inter Collegiate Competition”. |
| 5 | 2015-16 | Chess | Winner | “Inter Collegiate Competition”. |
| 6 | | Tennis (Girls) | Winner | “Inter Collegiate Competition”. |
| 7 | | Football (Boys) | Runner | “Inter Collegiate Competition”. |
| 8 | | Badminton | Runner | “Inter Collegiate Competition”. |
| 9 | | Football (Boys) | Winner | “Inter Engineering Competition.” |
| 10 | | Football (Boys) | Winner | “Inter Engineering Competition.” |
| 11 | | Football (Boys) | Winner | “Inter Engineering Competition.” |
| 12 | | Football (Boys) | Winner | “Inter Engineering Competition.” |
| 13 | | Badminton | Winner | “Inter Engineering Competition.” |
| 14 | | Kho-kho (Boys) | Runner | “Inter Engineering Competition.” |
| 15 | Football (Boys) | Runner | “Inter Engineering Competition.” | |
| 16 | 2014-15 | Badminton | Winner | “Inter Collegiate Competition”. |
| 17 | | Chess | Runner | “Inter Collegiate Competition”. |
| 18 | 2013-14 | Football (Boys) | Winner | “Inter Engineering Competition.” |
| 19 | | Cricket (Boys) | Runner | “Inter Engineering Competition.” |
| 20 | | Chess | 3 rd | “Inter Collegiate Competition” |
| 21 | 2012-13 | Chess | Winner | “Inter Collegiate Competition” |
| 22 | | Football | Winner | “Inter Engineering Competition” |
| 23 | | Swimming | Runner | “Inter Collegiate Competition” |
| 24 | | Waterpolo | Runner | “Inter Collegiate Competition” |

5.3.3 How does the college seek and use data and feedback from its graduates and

employers, to improve the performance and quality of the institutional provisions?

Institute collects feedback periodically from its alumni and employers in a well-defined format. This feedback seeks information about General feedback or specific to student, Technical skills, Communication skills, Ability to work in team, Leadership qualities, Interpersonal skills, Learning abilities, Sincerity & hard work, Infrastructure facilities, Support of volunteers, Computer network & internet (in case of online test), curriculum, effective teaching, resources in laboratory, resources at library, avenues and resources for co-curricular & extra-curricular events and infrastructure.



- Analysis of this feedback is done at institute level and suggestions are incorporated.
- An alumnus conducts mock interviews to help in placement activities. Thus, the students are well informed of current industrial trends and requisites, they are encouraged for a research based approach in studies and excel in their academic performance and eventually placements.

5.3.4 How does the college involve and encourage students to publish materials like catalogues, wall magazines, college magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.

Institute provides a platform to express views and thoughts of the students in form of articles, poems, drawings and other such compositions to share with each other. All possible efforts are taken to enhance enthusiasm among students for their participation and involvement in organizing and participating in curricular, co-curricular and extracurricular activities. Students are encouraged to publish articles, paintings, photography etc. at the department, Institute, state, national, international level.

- Institute published magazine “The Voyage” in the year 2015-16 which includes articles, poems, sketches, experiences, photographs of students.
- Wall magazine is there in every department which is a medium to show their talents in the form of poems, sketches, paintings, art, articles on social issues etc.
- Institute publishes the NEWSWIRE (Magazine) at the end of the every semester which includes reports of each department and it is making available to the students and staff.
- Students are motivated to design the banners, brochures and certificate layouts for the various technical events conducted in the departments.

- Time to time art gallery exhibition, technical poster exhibitions are organized.

Details of publications are:

| S. N. | Name of Technical magazine/ Newsletter | Academic Year | Contribution |
|-------|--|---|--|
| 1 | Newswire Vol. I & II Vol. III & IV Vol. V & VI Vol. VII & VIII Vol. IX & X Vol. XI & XII Vol. XIII & XIV Vol. XV | Publication started from Acad. Year 2009-10 2009 - 10 2010 - 11 2011 - 12 2012 - 13 2013 - 14 2014 - 15 2015 - 16 2016 - 17 | The Newsletter of PCCOE named "PCCOE NEWSWIRE" is published every six monthly. NEWSWIRE having Volume 1 in and Volume 2 within year. It includes the departmental information for the current academic year which helps us to keep track of current data of each Department which is as follows:-It includes various workshops, Invited talks(Expert Lectures),Faculty development programmers (FDP), Students Development Programmers (SDP), Industrial visits, Training & Placement, Corporate Social Responsibility (National Service Scheme)Sports, various events like Parents Meet, MBA CAT Online Exam, ARC, Research & Development, MOU with the outside world. Also, it highlights about all the current high performance Cells of PCCOE. |
| 2 | WALL Magazine | Activity Started from academic year 2012 and continued | It is a departmental activity for students to motivate their technical creativity through different arts as 'Week a Theme' activity. |
| 3 | E-Bulletin Departmental level | 2014-15 (Semester II) (Volume I) | The Newsletter of PCCOE Computer Department named "RIVISTA – E Bulletin" is getting published six monthly. It includes the departmental information for the current academic year which helps us to keep track of current data of Department which is as follows:-It includes various workshops, Invited talks (Expert Lectures),Faculty development programmers (FDP), Students Development Programmers (SDP),Industrial visits, Training & Placement. |
| 4 | Part 1 – Techno Kruti (Project Work and Paper Presented) | 2015-16 2014-15 2013-14 | The Technical Magazine of Mechanical Engineering Department of PCCOE named “ TechnoKruti ” is getting published yearly. It includes information on research work carried out by students and faculty for each academic |

| | | | |
|---|--|---------|--|
| 5 | Part 2 – TechnoKruti (IPR and paper published) | 2015-16 | year which helps and encourages students to keep track on research work and technology use. It includes various project work, paper presented and intellectual property. |
| | | 2014-15 | |
| | | 2013-14 | |
| 6 | Spandan | 2010-11 | Chief Editor: Mr. S. B. Matekar, Mrs. A. A. Sakurkar, Publisher: PCCOE, Pune |

5.3.5 Does the college have a Student Council or any similar body? Give details on its selection, constitution, activities and funding.

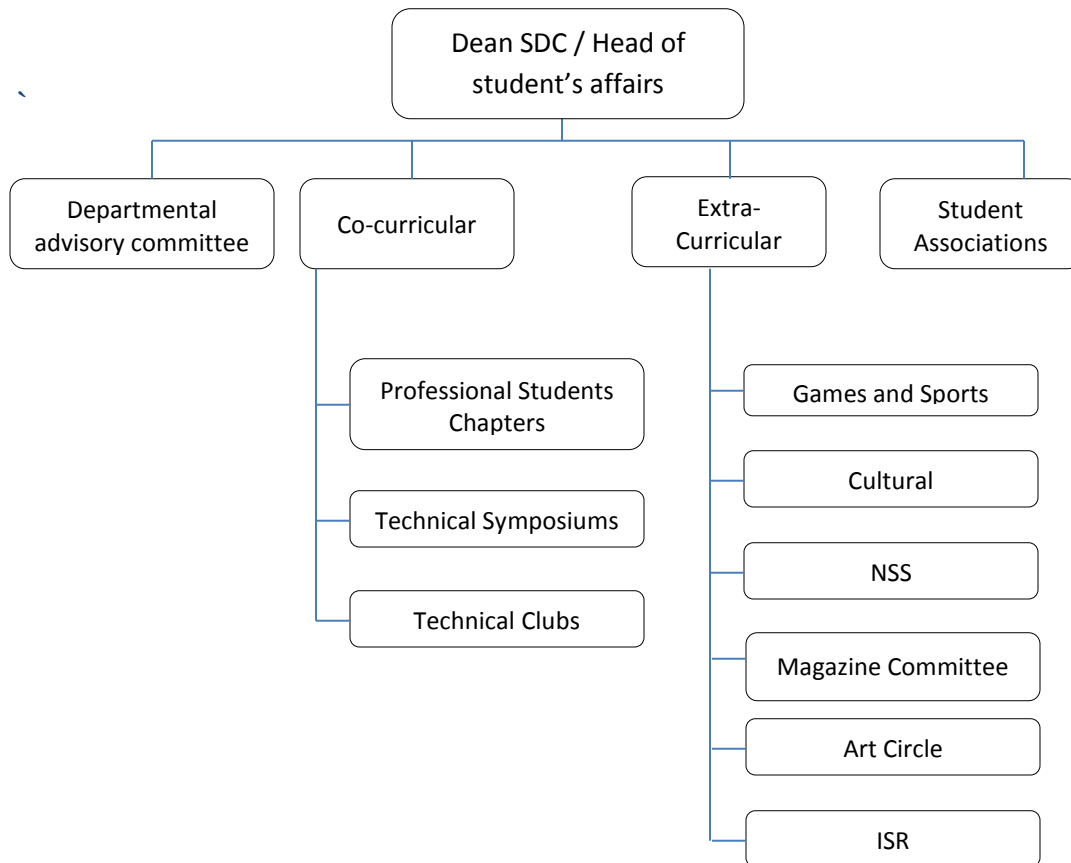
Institute has a Student Council. The student council is formed under the provision of section 40(2) (b) of the Maharashtra Universities Act, 1994. The topper student of each class is a member of this student council. For the academic year 2016-17 students council formed on 22nd Dec. 2016. The structure of the student council is as follows.

| Sr.No. | Post |
|--------|--|
| 1 | Principal/Director-Chairman |
| 2 | One Lecturer nominated by the Principal |
| 3 | Teacher in-charge of National cadet corps |
| 4 | National Service Scheme Programme Officer |
| 5 | One student from each class, who has shown academic merit at the examination held in the preceding year and who is engaged in fulltime studies in the college nominated by the Principal or Director |
| 6. | Director of Sports and Physical education |
| 7. | One student from following activities 1. Sports 2. National service scheme 3. National cadet corps 4. Cultural Activities |
| 8. | Ladies Representative |
| 9 | Secretary of Council |

All the students representatives are required to carry out their respective roles with due responsibility and follow the guidelines from the HoDs, Coordinators of the Cells, Class teachers and Faculty members for the overall coordinated functioning.

5.3.6 Give details of various academic and administrative bodies that have student representatives on them.

Following are the various academic and administrative bodies having student representation.



5.3.7 How does the institution network and collaborate with the Alumni and former faculty of the Institution.

Networking of Alumni

- The institute have alumni portal Alma Connect. Alumni can interact with junior students & faculty through this portal.
- Regular alumni meetings are organized.
- Alumni is informally a part of the teaching learning process through modes like expert lectures, project co guides, placement activities and mentoring students.
- Online platforms like Google groups, Facebook, Whats App, Alumni group, Linked In and Skype are the few of the tools used for networking with alumni.
- Alumni are a part of social extension activities at the institute.
- Alumni can access day to day activities of institute through website and Facebook page.

Networking with Former faculty

- Former faculty is invited as experts in the relevant subjects in teaching learning process as per the need.



CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 Institutional Vision and Leadership

6.1.1 State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institution's traditions and value orientations, vision for the future, etc.?

Mission and Vision of the Institute

Vision

To serve the Society, Industry and all stake holders through Value Added Quality Education

Mission

To serve the need of the society at large by establishing state-of-the-art Engineering, Management and Research institute and Impart Attitude, Knowledge and Skills with Quality Education to develop individuals and teams with ability to think and analyze right values and self reliance.

Since its inception, primary focus of the management was to cater growing needs of the Industry and Society at large and provide value based education to masses at affordable cost, simultaneously grooming students to global standards.

PCCoE is functioning proactively to provide the best professional environment to engineering and management students in terms of academics, project based learning, industry oriented trainings, sports, co-curricular & extracurricular activities, cultural activities, various competitions, etc to create true aesthetically sensitive, socially committed and technologically competent engineers and management professionals.

The Institute is able to witness progressive growth due to its Excellent Governance, Entrancing Leadership and Inspirational management. The Governing body of the Institute chaired by the Chairperson fosters the spirit of participative management and prime focus on developing the healthy culture in the Institute.

The Vision, Mission has been set up to make the Institution the most favorable and promising place to achieve technical competence and carry out Engineering Research for all of its stake holders in the Society.

Institution is working on four pillar philosophy which is academic excellence, Innovation & research, professional competence of students & social commitments.

6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?

The top management that includes Governing Body, Local Managing Committee

(LMC), Principal, Registrar, Deans and Heads of the Departments plays a very important role in the design and implementation of the policies and plans of the Institute. The structure of the top management, Principal and staff members is shown in as a flowchart in Fig. 6.1.

Role in designing and implementing quality policy & plans

- **The Governing Body** of the Institute provides an overall guidance to the Institute within the purview of the statutes and guidelines of Savitribai Phule Pune University (SPPU) to which the Institute is affiliated. The Governing Body, in its meetings, makes the assessments of the functioning of the Institute and deliberates upon how the functioning of the Institute may be improved towards the achievement of the Goal by ensuring the quality.
- **Local Managing Committee**
The Local Managing Committee (LMC) is formed as per Section 85 of Maharashtra University Act, 1994. Meetings of LMC are held thrice in a year to suggest, make recommendation, take periodic review for overall development of institute and follow – up of the various developmental activities in accordance with the Vision and Mission Statements, Long Term and Short Term Goals, Objectives and Policies framed. LMC also includes representation of faculty and staff.

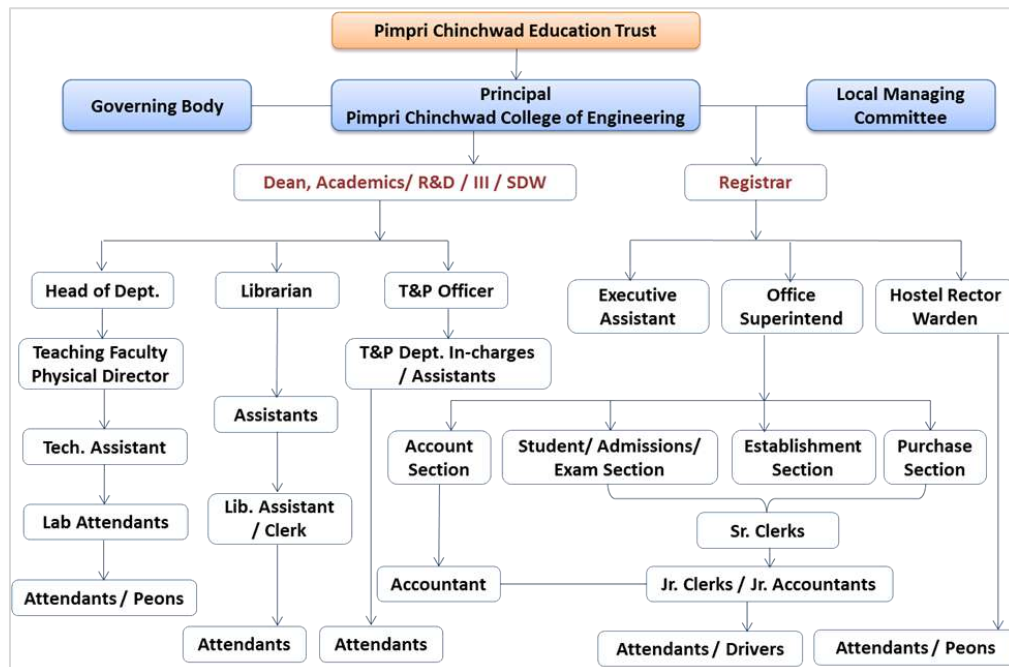


Fig: 6.1 Organization Structure

- **The Principal** takes recommendations of the LMC duly approved by Governing body as major inputs and is responsible to execute the decisions of the management. Principal with Internal Quality Assurance Cell, that includes the

senior teachers of the college acts as an essential point in generating ideas through the inputs received from all stake holders of the institute for generating the quality policy and plans towards the future growth of the Institute. The generated policies and plans are thus timely communicated to the respective stakeholders as per the requirement.

6.1.3 What is the involvement of the leadership in ensuring :

- *the policy statements and action plans for fulfillment of the stated mission*
- *formulation of action plans for all operations and incorporation of the same into the institutional strategic plan*
- *Interaction with stakeholders*
- *Proper support for policy and planning through need analysis, research inputs and consultations with the stakeholders*
- *Reinforcing the culture of excellence*
- *Champion organizational change*

The leadership works at two levels, first at the management level and second at the Institute level. At management level, the College is led by the Chairperson of the Governing Body. At the Institute level, it is led by the Principal.

• **Policy statements and Action plans for fulfillment of the stated mission:**

In order to fulfill the mission, the policies and action plans are developed and executed under the leadership of the Principal along with the involvement of all faculty members.

Deliberations are made through various interactions with the Governing Body, the Local Management Committee (LMC) to frame the policy and action plans for fulfillment of the mission. On the basis of the inputs provided by the Local Management Committee (LMC), the Governing Body takes the final decisions for designing the Course of Actions for implementations of the plans for fulfillment of stated mission i.e., to provide the facilities, qualified Human Resource, state-of-art Infrastructure and Financial resources for improvements of the Quality of Education, Research and Innovations, Industry Institute Interactions and Student development.

• **Formulation of action plans for all operations and incorporation of the same into the institutional strategic plan**

The formulation of action plans for overall development of the institute w.r.t. the Academics, Research, Industry Institute Interactions and Student Welfare and development are done under the guidance of the Principal, Deans and Heads of Departments and In charges of various committees formed. Following process is followed for the proposal of the action plan,

- The deliberations are made initially at the department's level where the inputs of stake holders are taken.

- The proposed action plan is then put forth for further discussions at the respective Departmental Advisory Boards comprising of Head of Department, senior faculty, representatives from Industry, Alumni, Parent and student. These action plans are then discussed and revised if necessary at the common meetings of Deans, Heads of Departments and Principal.
- The said action plan upon recommendation is then put forth for further considerations at the LMC
- If the recommendations are made at LMC then it is forwarded for approval to Governing Body (GB).

In order to keep track of proper execution of the said plans, committees are formed at various levels. The major Functions of these Committees / Cells are defined in the Quality Manual and well informed to the respective Faculty and Staff Members. Under the leadership of the Principal, action plans so formulated are allocated to respective implementing departments and thus becomes a part of College strategic plan. The respective Head of department along with team is responsible for successful implementation of the plan. Simultaneously the quality aspects are monitored by IQAC of the Institute which is timely monitored through the Quality Audits of the **ISO 9001:2008**.

- **Interaction with stakeholders**

The Principal, Head of Departments and faculty members are having regular interaction with stakeholders through induction program, parents meet, alumni meet, industry institute interaction meet, farewell meet, Presentations with industries & other organizations, etc. These discussions are treated as confidence building measures and to disseminate quality policies, action plans and future projections of the institute to the stakeholders.

Proper mechanism is in place to receive the feedback from all the stakeholders at departments and institute level. These feedbacks are used as essential tool for improvisation and to upgrade the academic processes.

- **Proper support for policy and planning through need analysis, research inputs and consultation with the stakeholders**

The Institute leadership takes the timely inputs from its Stakeholders i.e. Students, Parents, Alumni and Industry in the form of feedbacks and suggestions at various forums. The feedbacks received are thoroughly discussed and analyzed at various deliberations with Department Advisory Boards, Deans and HoD meetings. The improvisation required in the process is executed through Academics, Research and Innovation, Industry-institute interaction, Student Development & Welfare, cells and committees.

- **Reinforcing the culture of excellence**

The management of the Institute and Principal always encourages the Students and Faculties for the Journey towards the excellence at various forums and interactions. The culture of excellence is reinforced and rejuvenated through various faculty

interactions, Deans & HoD interactions, Orientation programmes, Alumni meets, etc. The Principal ensures the quality and excellent achievements in academic results, placements, research and innovation and social commitment through detailed deliberations with the Deans and Heads of respective departments continuously.

- **Champion organizational change**

The leadership of the institute believes in the out of box thinking to judge the needs of the stakeholders and hence transforming the ideas into the real practice. To bring the dynamism into the system, the leadership facilitates these needs through constantly upgrading it by introducing the changes such as the implementation of educational based ERP (Enterprise Resource Planning), the Biometric based attendance system to get rid of the conventional paper based attendance system for its staff. To ensure the quality of the system, QMS is implemented effectively and continuously monitored through ISO. To meet the industry expectations and bridge the curriculum gap, the collaborative research has been taken up and resulted into Centre of Excellence in respective departments. Thus the Institute leadership is constantly and deliberately championing the Organizational changes.

6.1.4 What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?

Institute formed various Committees / Cells and their functions are properly defined, considering the overall development of the College. The administration of various academic and allied activities is done through Dean Academics, Dean Research and Development, Dean Industry Institute Interaction, Dean Students Development and Welfare, Departmental Heads, Registrar, Librarian and Rector / Warden. The functions of these Committees / Cells is to plan and execute various activities in accordance with Vision, Mission and Objectives of the College and its overall development. This also aims at active participation and involvement of all Teaching and Supporting Staff through Team spirit and work with synergy. For example the monitoring and evaluation of attendance is done through attendance monitoring report taken fort-nightly, Academic monitoring is done through academic monitoring report and meeting held monthly, student performance analysis is done through unit test analysis and university result analysis. All these policies are monitored and evaluated through Internal/ External audits and Management Review Meetings (MRM).

6.1.5 Give details of the academic leadership provided to the faculty by the top management?

The teaching fraternity of the institute is given an opportunity and freedom to deploy the academic policies through the various roles as the Dean, Heads of Departments, Module Coordinators, Course Coordinators, Academic Coordinators, Class Teachers,

Unit Test in charges, College Examination Officer, Student Welfare Officer, Training and Placement Officer, etc. Faculty representation is also done at Governing body and Local Management Committee.

The proposals from faculty for organizing Projects / Seminars/ workshops/ guest lectures etc. are forwarded to the Principal through Head of departments for final approval. Faculty members are given full support in organizing these programmes.

6.1.6 How does the college groom leadership at various levels?

The institute is run by Pimpri Chinchwad Education Trust, a non-profit organization, lead by a group of eminent Leaders and Social workers. This imbibes the healthy and conducive environment by proper distribution of responsibilities at every level from top management to students. By way of giving opportunity, faculties are able to demonstrate their leadership qualities as Deans, HoDs, Academic co-ordinators and Portfolio In charges.

The faculty members are provided opportunities to lead academic departments, committees, cells, mentoring student societies and also work upon various administrative assignments.

Senior faculties are made In-charges of various committees formed for overall improvement. Faculties are given support to organise and conduct various events for staff and students. The Institute provide its students the opportunity to come up with new ideas and initiatives which are further improved and cherished by its experienced and senior faculty.

Following are the details of the faculty representation at Institute level,

| Sr. No. | Portfolio | In charge | Members | Dept. |
|------------------------------|---|----------------------|--|---|
| G. General Committees | | | | |
| 1 | Overall Coordination and Development Cell | Principal | Registrar, Deans, HODs | |
| 2 | College Promotion, Publicity, Recognitions and Awards | Prof. S.A. Rawandale | Dr. N.R. Deore Mr. S.L. Tade Mrs. Reena Kharat Mr. Ramkrishna Vadali Mr. R.T. Jagtap Mr. Chetan Patil | Mechanical E&TC Computer IT FE MBA |

| | | | | |
|---|---|---|--|---|
| 3 | Preparation and Printing of College Brochure, Newswire Bulletins, essential Academic & Admin. Reports, College Website updating and maintenance | Dr. N.R. Deore, Mechanical Mr. Anand Jain (Co-coordinator: Website Updating) | Mrs. Anjali Srivastava Mrs. M.S. Bhandarkar Mrs. Harshada Mhaske Mr. Shrikant Kokate Mrs. T.S. Sali Mrs. Kanchan Dhapekar Mrs. Pooja Kate Mr. Prakash Ukhalkar Mrs. Shilpa Kundale | E&TC E&TC Computer Computer IT Civil FE MCA MBA |
| 4 | Right to Information Act Committee | Principal- First Appellate Authority | Mr. G.M. Desai :-Public Information Officer Mr. S.B. Matekar:- Assistant Public Information Officer | Exe. Director, PCET Mechanical |
| 5 | Reservation cell | Principal | Mr. P.S. Patil Mr. A.K. Gaikwad | Registrar Civil |
| 6 | Faculty and Staff Development & Welfare Committee (Various activities including Professional Membership) | Mr. A.A. Panchawadkar (Mechanical) | Mrs. V.A. Kulkarni Mr. S. S. Sambhare Mr. V.D. Katkar | E&TC Computer IT |
| 7 | Continuing Education and Skill Development | Dr. S. S. Lakade Mechanical | Dr. N.B. Chopade Mrs. Reena Kharat Mr. V.D. Katkar Dr. S.T. Mali Dr. Leena Sharma Mrs. Aniana Arakerimath | E&TC Computer IT Civil FE MCA |
| 8 | Campus Beautification and Maintenance Committee | Mr. S.R. Kasar Rector | Mr. A.N. Kore Mr. G.D. Kale Mr. P.R. Sonawane Mr. P.V. Sontakke Mr. Sagar Salunke | Mechanical Mechanical E&TC E&TC Computer |

| | | | | |
|----|---|--|---|--|
| | | | Mr. G.C. Sarode Mr. Prakash Ukhalkar | Civil MCA |
| 9 | Women's Grievance Committee | Mrs. Anjana Arakerimath | Dr. S.S. Sonar Dr. Anuja Johri Ms. A.G. Kulkarni | FE MBA Principal Office |
| 10 | Centre for Quality and Excellence (including ISO Certification, Monitoring and Control) | Mr. N. Vivekanandan- MR _ ISO Mrs. Varsha Harpale- E&TC (Co-coordinator) | Mrs. Priya Surana Mrs. R.S. Gound Mrs. Renuka Purohit Dr. S.S. Sonar Mr. Prashant Kulkarni Mr. Ritesh Phalke | Computer IT Civil FE MCA MBA |
| 11 | Systems and IT Support ERP Implementation, Monitoring and Control | Mr. R.K. Vadali- Mrs. S.R. Vispute Computer (Co-coordinator - ERP) | Mr. A.G. Pawar Mr. Sadanand Bhandari Mr. Mohsin Shaikh Mr. Deepak Wankhedkar Mr. Vishant Jadhav Mr. Sagar Bagul Mrs. Rita Pimpalkar Mr. Ganesh Rahate Mrs. V.C. Kulloli Mr. Rahul Choudhary Mr. Arif Bagwan Mr. B.S. Khurana Mrs. Poonam Katyare Mr. Sanjay Gaikwad Mr. Amar Nalawade | Computer Systems and IT Systems and IT Systems and IT Systems and IT Mechanical E&TC IT Civil FE MCA MCA MBA Accountant |
| 12 | NBA Coordination Committee | Prof. S.K. Bhoite- Coordinator Dr. Mrs. S.V. Shinde- (Co-coordinator) | Mr. L.V. Awadhani Mr. A.B. Patil Mrs. Sonal Gore Mrs. S.R. Shinde Mr. A.K. Gaikwad Dr. Surabhi Sengar Mr. Anand Jain Dr. Mrs. Anuia Johri | Mechanical E&TC Computer IT Civil FE MCA MBA |
| 13 | NAAC Steering Committee | Dr.N.R.Deore Dr.P.A.Deshmukh Coordinators | Mr. L.V. Awadhani Mr. A.R.Suryawanshi Mrs.Priya Surana Mrs. T.S.Sali | Mechanical E&TC Computer IT |

| | | | | |
|-------------------------------|--|---------------------------------------|---|---|
| | | | Mr.Rahul Chaudhari Dr. Surabhi Sengar Mr.B.S.Khurana Mrs. Ujwala Parab Mrs. Archana Kulkarni | Civil FE MCA MBA Admin Office Principal Off. |
| 14 | IQAC | Principal | Registrar, Deans, HODs, Teacher Representatives, Management Representatives, Student Representatives, Industry Representatives, Alumni Representatives, Society Representatives, NAAC Coordinator | |
| A. Academic Committees | | | | |
| 1 | Academic Monitoring and Control- UG Engineering Programs PG Engineering Programs | Dean Academics - Dr. J.S. Umale | Academic Coordinators Mr. N. Vivekanandan Mrs. S.U. Deoghare Mr. S.S. Deshmukh Mrs. J.V. Katti Mrs. S.S. Motegaonkar Mrs. S.A. Sakurkar Dr. N.R. Deore Mr. A.A. Panchawadkar Dr. Mrs. S.U. Bhandari Mrs. V.S. Bendre Mrs. A.D. Thakare Dr. Mrs. S.V. Shinde | Respective Depts. Mechanical E&TC Computer IT Civil FE Heat Power Design E&TC E&TC Computer IT |
| 2 | Library Committee, Digital Library | Mr. S.B. Matekar | Mrs. S.V. Patil Mrs. A.D. Thakare Mrs. R.S. Gound Mr. G.C. Sarode Mrs. Sujata Bhamre Mrs. Deepali Railkar Mr. Saniay Gaikwad | E&TC Computer IT Civil FE MCA MBA |
| 3 | Students Counseling Cell | Mrs. S.A. Fulambarkar | Ms. Neeta Yeole Mrs. D.S. Khurge Mrs. Sonali Patil Ms. Ashwini Tonge Mrs. J.N. Changade Mrs. Ashwini Vaze Mr. Sopan Aghav Mr. Saniav Gaikwad | Mechanical E&TC Computer IT Civil FE MCA MBA |

| R. Research Committees | | | | |
|---|---|--|---|---|
| 1 | Research and Innovation Cell, Funding Proposals Conferences, Technical and Research based Events | Dean R&D Dr. S.S Lakade | Dr. Sanjay Darvekar Mrs. D.S. Khurge Mrs. Reena Kharat Dr. Mrs. S.V. Shinde Dr. S.T. Mali Dr. Leena Sharma Mrs. Suchita Borkar Mr. Santosh Shinde Dr. Anindita Roy Mrs. P.K. Rajani Mr. V.D. Katkar Mrs. Reva Joshi Dr. P.P. Joshi Mrs. Aniana Arakerimath | Mechanical E&TC Computer IT Civil FE MCA MBA Mechanical E&TC IT Civil FE MCA |
| I Industry Institute: Interaction Committee | | | | |
| 1 | Industry-Institute Interaction, Training and Placement Entrepreneurship Development and Support | Dean III- Prof. S. A. Rawandale Mr. M. M. Narkhede | Mr. S.K. Bhoite Mr. G.G. Momin Mr. S.L. Tade Mrs. S.P. Jagtap Mr. S.S. Sambare Mrs. Jaya Dewan Mr. S.B. Gorade Mrs. P.A. Jog Mr. Rajkamal Sangole Mr. Sushil Shende Mr. C.L. Ladekar Mr. Ujwal Shirode Mr. Shaliesh Hule Mrs. R.G. Pise Mr. Rajkamal Sangole Mr. Ritesh Phalke | Mechanical Mechanical E&TC E&TC Computer IT Civil FE MCA MBA Mechanical E&TC Computer IT MCA MBA |
| S. Student Development and Welfare Committee | | | | |
| 1 | Communication and Personality Development Cell | Dean SDW - Dr. Mrs. S.U. Bhandari Mrs. Meera Natarajan | Mr. Vilas Shingare Mrs. A.A. Srivastava Mrs. Deepa Abin Mrs. R G. Pise Mr. J.S. Shedge Mrs. Deepali Railkar Mrs. Shilpa Kundale | Mechanical E&TC Computer IT Civil MCA MBA |
| 2 | Professional Development Cell Technical Addition Courses, | Mrs. V.Y. Bhalerao | Mr. U.G. Potdar Mrs. J.S. Kulkarni Mr. Ganesh Deshmukh Mr. S.R. Jadhav Mr. V.B. Kale | Mechanical E&TC Computer IT Civil |

| | | | | |
|---|--|--|---|---|
| | Foreign Language Training) | | Mrs. G. Saxena Mrs. Suchita Borkar Mr. Sushil Shende | FE MCA MBA |
| 3 | Higher Studies Preparations, Competitive Exams Preparations (MPSC, UPSC etc) | Mr. G.R. Rahate | Mr. S.M. Narayankar Mr. K.B. Kotangale Mrs. Mahalaxmi Mrs. R.G. Pise Mr. Nikhil Yokar | Mechanical E&TC Computer IT Civil |
| 4 | Students Welfare, Grievance Handling Cell(Discipline, Anti Ragging and Students Council Formation) | Mr. A.K. Gaikwad | Mr. S.P. Salve Mrs. R.S. Kad Mr. A.G. Pawar Ms. V.C. Kulloli Mrs. A.Y. Amte Mr. B.S. Khurana Mr. S.S. Gaikwad Mr. S.R. Kasar Mr. Santosh Pacharne | Mechanical E&TC Computer IT FE MCA MBA Rector Physical Director |
| 5 | Art Circle Activities | Ms. A.N. Chaudhari | Mr. Amol Suryavanshi Mrs. A.M Lalge Mrs. S. V. Pede Ms. Rashmi Gadmail Mrs. Renu Purohit Mrs. Niharika Upadhyay Mrs. Deepali Railkar Mrs. Shilpa Kundale | Mechanical E&TC Computer IT Civil FE MCA MBA |
| 6 | Institute Social Responsibility (NSS etc) | Mr. A.R. Suryawanshi | Mrs. A. M. Ekbote Mr. Anand Birajdar Mr. Sagar Salunke Mr. V.D. Katkar Mr. G.C. Sarode Mr. Jayant Yadav Mr. Rajkamal Sangole Mr. Santosh Shinde | E&TC Computer Computer IT Civil FE MCA MBA |
| 7 | Games and Sports | Mr. Santosh Pacharne - Physical Director | Mr. A.A. Kachare Mr. V.R. Shingare Mr. S.D. Nagrale Mr. A.G. Pawar Mr. Nikhil Yokar Mr. Rajkamal Sangole Mr. Ritesh Phalke | Mechanical Mechanical E&TC Computer Civil MCA MBA |
| 8 | Student | Mrs. Sonali | Mr. S.P. Salve | Mechanical |

| | | | |
|--|-------|---|---|
| Association Coordination Cell Coordination of Department Students Association | Patil | Mrs. A.S. Shinde Ms. A.N. Chaudhari Mr. S.B. Gorde Mrs. S.S. Shete Mrs. Deepali Railkar Ms. Shilpa Kundale | E&TC IT Civil FE MCA MBA |
|--|-------|---|---|

Students are provided an opportunity to exhibit their leadership skills through organising and participating in various internal events organised by NSS cell, departmental students associations, Entrepreneurship cell, Placement cell, Student welfare and development cell, Sports Cell etc., and national level events such as BAJA, SAE SUPRA, ROBOCON, TECHLLIGENT, SPECTRUM, etc. The student's council is formed as per the guidelines of SPPU and students are able to demonstrate their leadership skills through the activities of the cell. All these activities help students to work in a team and at the same time when the need arises, lead the team. The institute always believes and feels proud of the leadership abilities of its students. There are examples where students of the Institute have started their own ventures where their leaderships are reflected.

6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?

We at PCCoE believe that Team Work and coordinated functioning with focused efforts brings the expected results and hence we make it a point to involve each and every Member of our Team into the various activities going on all across the Campus. This 'Working Together' culture creates belongingness and simultaneously the work load also gets shared. With this thought process we are practicing Decentralization in working.

A] Decentralization in working

The academic and other overall administration of the College is carried out by the Principal, Deans, Head of the Departments, Registrar as per the Organization Structure defined in Fig 6.1. Their major duties and responsibilities at various levels are given below.

Table No. 2. Decentralization Details

| Sr. No | Designation | Name of faculty | Duties and Responsibilities |
|--------|-------------|----------------------|--|
| 1 | Principal | Dr. A.M. Fulambarkar | General Administration, Academic Planning, Monitoring and Control, Overall development of |

| | | | |
|----|---|-------------------------|--|
| | | | the Institute |
| 2 | Dean Academics | Dr. J.S. Umale | Academic planning, monitoring and Control of the UG and PG Programs |
| 3 | Dean, R&D | Dr. S.S. Lakade | Research, Innovation and Development |
| 4 | Dean, III and Head Training and Placement | Mr. S.A. Rawandale | Training and Placements, Entrepreneurship development |
| 5 | Dean, Student Development and Welfare | Dr. Mrs. S. U. Bhandari | Planning, Monitoring and control of all Student Development initiatives, activities and programmes. |
| 6 | Registrar | Mr. P.S. Patil | General Office Administration, liasoning with statutory bodies, records, etc |
| 7 | HOD (Mech. Engg.) | Dr. P. J. Awasare | Academics planning, Administration and monitoring of department Workshop Planning, Development and Maintenance |
| 8 | HOD (E&TC Engg.) | Dr. N.B. Chopade | Academics planning, Administration and monitoring of department |
| 9 | HOD (Comp. Engg.) | Dr. Mrs. K. Rajeswari | Academics planning, Administration and monitoring of department |
| 10 | HOD (Info. Tech.) | Dr. S.D. Thepade | Academics planning, Administration and monitoring of department |
| 11 | HOD (Civil Engg.) | Dr. S. T. Mali | Academics planning, Administration and monitoring of department |
| 12 | HOD (MCA) | Mrs. A.R. Arakerimath | Academics planning, Administration and monitoring of department |
| 13 | HOD (MBA) | Dr. Anuja Johri | Academics planning, Administration and monitoring of department |
| 14 | FE | Mrs. S.A. Fulambarkar | Academics planning, Administration and monitoring of FE (Regular |

| | | | |
|----|---------------------|--------------------|---|
| | | | Shift) |
| 16 | Librarian | Mr. B. M. Thorat | Library Development and Maintenance |
| 17 | Physical Director | Mr. S. B. Pacharne | Planning & Execution of Sports |
| 18 | Rector | Mr. S.R. Kasar | Hostel Administration and Control |
| 19 | Girls Hostel Warden | Mrs.Lata Raut | Girls Hostel Administration and Control |

Regular Meeting of Deans, HODs, Section In charges for overall Planning, Overall Coordination, Monitoring and Control is exercised by the Principal.

Subsequently regular Departmental Meetings are held by the respective Head of the Departments, Section in-charges and Committee / cell in-charges for efficient functioning of Academics, overall development of Students and monitoring of Developmental Activities.

Delegation of Financial Power

As decided in the LMC Meeting on 22nd Feb 2011, Principal is empowered with sufficient authority to do the necessary operational expenses. All HODs are empowered to permit Urgent Academic Expenses up to Rs.10,000/- per month for the their respective Departments; in line with the Academic requirements. This is notified to all concerned, accordingly.

6.1.8 Does the college promote a culture of participative management? If 'yes', indicate the levels of participative management.

The institute always promotes the participative management. Participation is ensured at all operational levels i.e. at Governing Body, Local Management Committee (LMC), department level meetings, various committees, cells etc. The inputs from Faculty, students and all stake holders are considered for policy and decision framing and its implementation at department and Institute. The Departmental Advisory Board consists of members from Industry, Alumni, faculty, students and parents.

6.2 Strategy Development and Deployment

6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?

In order to track and meet the Mission and Vision, the Institute has a formally stated Quality Policy. The Institute also has Quality Objectives, a mechanism to enumerate the Quality Policy, for effective deployment.

The Quality Policy is framed under the Guidance of top management, Principal, Deans, Heads of Respective Departments, Section In-charges and Stake Holders. To develop the quality policy initially the inputs were received from Teaching and non-Teaching staff, Students, Alumni, Parents and Industry. Deliberations are made at various levels before finalizing the quality policy.

Quality Policy:

We at PCCOE are committed to impart Value Added Quality Education to satisfy the needs and expectations of the Students and Stakeholders.

We shall strive for academic excellence, professional competence and social commitment in fine blend with innovation and research.

We shall achieve this by establishing and strengthening state-of-the-art Engineering and Management Institute through continual improvement in effective implementation of Quality Management System.

Quality Objectives:

- To Improve Academic Performance Index.
- To Improve Research and Innovation Index.
- To Improve Professional Competency of the Students and ensure social contribution.
- To enhance students placements, training and entrepreneurship.

- The Institute has opted for **ISO 9001:2008** system to monitor the effective implementation of the Quality Policy. Every Semester ISO internal audit is conducted to keep track of the Status of Quality Objectives.
- These Internal audits are conducted by a team of Certified Internal Auditors from all departments.
- In order to improve quality management system, ISO 9001:2008 will be upgraded to ISO 9001:2015. The system is improved by analyzing external and internal issues along with needs and expectations of students and will be assessing these issues on the basis of risk and opportunities of their non-compliance.
- Eight Process Manuals were prepared and listed below.
 - 1) Academic Process Manual
 - 2) Administration Process Manual
 - 3) Research and Development Process Manual
 - 4) Student Development and Support Manual
 - 5) Library Process Manual
 - 6) Maintenance Process Manual
 - 7) System Manual

8) Quality Manual.

- A Target is set by every department for these Quality Objectives and work towards achieving these. Every department i.e. Academic, Administrative, Support units have to submit the status of the Quality Objectives before the internal audit.
- The audit is conducted on the basis of submitted report against the set clauses to check for conformities in the said department. The group of auditors reviews and audits the status report of these Objectives for its compliance.

6.2.2 Does the Institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.

The Institute wants to establish itself as a preferred institution for the overall development of its stake holders. To achieve this, Institute has a perspective plan for development which is reflected for past many years through its multi-dimensional development in teaching and learning, Research and Innovation, infrastructure development and Administrative development. It is developed under the leadership of the Principal and deliberated at the LMC and GB level for final decisions and approvals.

The Institute has prepared the following perspective plans for its Multi-dimensional growth keeping Four Pillar Concept in consideration,

- **Academic Excellence** – The Institute is known for its Academic Discipline. To aim and march further in this direction, Institute wants to achieve the Academic Autonomy in order to cater the needs of the Industry and Society at large, Institute wants to produce the Engineers with required skill sets. The Institute is trying to empower pool of top notch faculties to achieve the Academic excellence.
Quality results with number of distinctions, first class, overall eligibility for placement is improving. Academic excellence is achieved through effective, practical oriented and project based learning.
- **Research and Innovation-** The Institute has already made its mark in the Field of Research and Innovation by publishing more than 900 research papers in the past four years span and by filing more than 130 Patents in the last 3 years. The institute also hosted Two IEEE conferences in the two consecutive years to provide platform for Researchers. To meet the industry expectations and bridge the curriculum gap, the collaborative research has been taken up and resulted into Centre of Excellence in respective departments. The institute looks further to establish Research Center and has submitted the proposal to Savitribai Phule Pune University.
- **Professional Competence-** To improve the required skills and knowledge in the technical and Managerial front, Institute has started to train students from Second year level itself. Institute has signed MoU with Professional organizations for

providing add-on training to the students to build required skill sets. To impart professional competency among faculty and students the institute has membership of various professional bodies such as ISTE, IETE, IEEE, QCFI, ACM, etc. The professional competency of the students is also developed through various student development and welfare activities at department and institute level.

The Institute has already placed many students in number of well known organizations and many students have become leaders in their field. The institute is providing platform to students and faculty to interact and discuss at various levels through

- The **Alma Connect** Network- To provide platform for its Alumni to connect and share the experience with each other.
- Every year the Institute hosts **Industry- Institute- Interaction meet** where leaders from the Industry and Institutes meets under an umbrella to work for one cause i.e. the development of the Society.
- **Social Commitment-**
 - The Institute has created Student Welfare Fund to help the poor and needy students. Already the initiatives have been started by student welfare cell and Charity cell to establish the same.
 - The Institute has joined hands with the Industries / Organizations to develop applications / products to address the societal problems and issues such as Water management, Health care, etc.

Perspective plans of the Institution,

- NAAC Accreditation
- ISO re-certification
- NBA re-certification
- Research Centre
- Autonomy

6.2.3 Describe the internal organizational structure and decision making processes.

Refer to Fig. 6.1 Organization Structure. The working of the Organizational structure is as follows.

The Governing Body (GB): is formed as per the guidelines given by AICTE as per appendix – 19 of New Approval Process Hand book. The Meeting of Governing body is conducted twice/thrice in a Year. Governing Body having a total of 13 members with Principal as member secretary has the following functions.

- To approve the Budget estimates – recurring and non-recurring for the Financial Year
- To accept the Audited Statement of Account for each Financial Year
- To approve the Workload and Staffing Pattern of Teaching and Non – Teaching (Technical and Administrative) for the Institute

- To consider and approve the proposal for creation of major infrastructure such as Building, Furniture, Equipment, Library and major developmental activities
- To consider and make provisions for meeting the general and specific conditions lay down by the Council (AICTE), the State Government, Affiliating Body and monitor the progress in fulfilling the conditions.
- To consider the report of the Principal on the Academic Performance of the Students.
- To approve the observance of Service Conditions for the Staff as prescribed by the Affiliating body/Government.
- To consider the proposals of the Principal for Faculty and Staff Training & Development and report on the status of Admission.
- To consider any other matter so far as it leads to enhance the Academic and overall development of the Institute
- To consider and approve any proposal for extension of Educational activities such as starting of new Courses, variation in Intake Capacity etc. to be made to the Council /Government/Affiliating body.

The Local Managing Committee (LMC): is formed as per Section 85 of Maharashtra University Act, 1994. Meetings of LMC are held thrice in a year for regular review and follow up of the various developmental activities in accordance with the Vision and Mission Statements, Long Term and Short Term Goals, Objectives and Policies framed. Local Management Committee is having a total of 10 members with Principal as Member Secretary and 3 faculty members of institute as Teacher representative and Registrar as non-Teaching representative on their body. Functions of the Local Managing Committee (as per Section 85, Maharashtra University Act 1994) shall be to:

- To recommend the Budget and Financial Statements for approval to the Governing Body.
- To study and recommend to the Governing body the creation of the Teaching and other Posts.
- To review and offer Suggestions in the program of Instructions and Internal Evaluation and to discuss the Academic Progress of the College.
- To consider and recommend the Proposals for Increase / variation in the Intake Capacity of various Courses, Teaching Work-Load and Staffing Patterns, other matters relating to the Internal Management for providing most conducive environment in the Institute.
- To consider and make recommendations on the Inspection Report of the Local Inquiry Committee and /or competent agency, if any.
- To review and recommend Academic and other activity reports on the work done by various Internal Committees for the year ending on 30th June to the Governing Body.

- To perform such duties and exercise such other powers as may be entrusted by the Governing Body of the institute and by the University.
- The requirements from departments are forwarded to Principal office through Registrar for decision making. Principal put forward the major recommendations in LMC and approval in GB meeting. On approval the recommendations are communicated to departments.

6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following

- *Teaching & Learning*
- *Research & Development*
- *Community engagement*
- *Human resource management*
- *Industry interaction*

- **Academics and Teaching & Learning at PCCoE**

PCCoE is driven by the academic culture which is built to make the real difference in the knowledge, skills and behavior of students through learning experience for each instance they spend at the institute. Our theme and practice of “Value based Quality Education” shape engineers with competency and with strong sense of societal values.

Quality of the Teaching-Learning Process is the strength of PCCoE. We believe that the quality outcome depends on matured and well thought academic process. Our Teaching Learning process is stringent and disciplined. Each one of us from PCCoE family is by heart involved in this process to do their best. The quality of our process is ensured by ISO standards and it involves Plan-Do-Check-Act (P-D-C-A).

The teaching learning process starts with the planning for the semester before the commencement of semester. The planning includes identifying staff and resources requirement. The planned activities are executed as per plan and are monitored through various planned processes such as academic monitoring, attendance monitoring etc. and is monitored in Academic review meeting conducted twice in a semester. Any deviation identified is corrected during the progress of the semester itself and appropriate measures are taken.

- **Research & Development**

To Promote the Research Culture in the Institute, strategies are implemented at various levels.

- The institute allocates department wise research budget.
- The Institute has a policy to financially support the faculty to publish the papers in the International Journals of Repute, attend the Conferences in India and Abroad.
- The Institute promotes collaborative research where Industry and Academia

join hands to solve a problem.

- The Institute encourages its faculty to pursue their Ph.D.
- For the past two consecutive years the Institute is organizing the International Conference (ICCUBEA) in association with IEEE to provide a platform for Researchers.
- Separate provisions in the Budgets are made for the necessary equipments to conduct the research and students project.

- **Community engagement:**

The Institute has established various cells viz. Institute Social Responsibility (ISR), Art Circle etc. to promote the community engagement and this provides the platform for students and faculty to work together for social cause. Through all of these cells the Institute is able to make a mark in the society and run various programmes through the identified skilled students and faculties.

- **Human resource management:**

The Management is committed to provide qualified and competent Academic and Administrative staff. The Institute recognizes that its Faculty & Staff are fundamental to its Success. The Institute therefore needs to be able to attract and retain Staff of the highest calibre, a strategic, professional approach for recruitment is essential to do this.

The Institute aims to attract, select, appoint and retain quality Staff. This Policy sets out principles and procedures to ensure Staff Recruitment and Selection practices are consistent, merit – based and aligned with the Savitribai Phule Pune University with the primary goal of Teaching, Research and Training.

- **Industry interaction**

The Institute is intensifying the efforts to increase the Interaction with the industry and various strategies are applied for the same. Every year the institute organizes Industry-Institute- Interaction (III) meet, where the representatives from the Industry visits the institute and deliberates on the current trends and skill sets required for the students. III cell invites the speakers from Industries to deliver on latest trends and technologies. During the placement drives, pre placement talks are delivered by the recruiting industries. The Institute has visiting professionals and managers who trains and delivers on various technologies and also help students in identifying the projects to work upon.

6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?

The Head of the Institution ensures that the timely information should be shared to its top management and stake holders. The head of the Institution provides information

about the activities of the institution time to time as per the requirement to the top management through,

- Presenting report to the GB in meeting
- Discussions & proposals put in LMC meetings
- MRM meetings
- Inputs of DAB & PAC meetings
- Academic review meetings
- Student feedback suggestions, etc.

Depending upon the discussions & decisions given by the management necessary circulars/notices are generated & circulated amongst students & faculty. Activity reports of the institute are made available to stakeholders in the form of website, News wire, college magazine.

In addition to this all the Cells and Committees are expected to submit Six monthly reports to Principal office. The Governing Body of the Institution meets twice/thrice a year where head of the Institution presents a report prepared with the help of Academic and Administrative Heads, showcasing the activities and achievements of the Institution. Financial information is provided and published on the website in the prescribed format and is available to all of its stake holders.

The annual report comprises of the Student Admission numbers, University result analysis, awards, infrastructural additions, etc.

6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?

The management of the institute believes in the participation of staff members in the smooth functioning of the institution. It involves staff members in the policy and decision making process. Management maintains communication with the staff representation in GB & LMC and is always open to their suggestions to improve the effectiveness and efficiency of the institutional processes. The management always encourages faculty to involve themselves in ongoing institutional processes. Adequate representation is given to the staff members on various committees at institute & department level. Staff members are also encouraged to

- Attending seminars, workshops, conferences, guest lectures either as participants or resource persons.
- Organize seminars, workshops, conferences, guest lectures, etc.

6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.

The table below enumerates the resolutions made by the management council in the last year,

Table No.: Important Decisions in the GB

| Sr. No | Date of Meeting and Outcome |
|--------|--|
| 01 | <p><u>21/03/2016</u></p> <ol style="list-style-type: none"> 1. To approve the recommendations forwarded by LMC <ol style="list-style-type: none"> a) Regarding revision in the Policy for Financial Assistance to Academic and Admin. Staff to attend Conferences / Seminars / Workshops; the revised Proposal as recommended by LMC was reviewed and approved. b) Regarding availability of Medical Facility for Students and Staff Members; it was mentioned that Doctors do visit the Hostel regularly; MoU is in place with Star Hospital. c) Regarding Medical Insurance for Staff Members; it was informed that related activities would be completed soon. As recommended by LMC, this would be reviewed and shall be considered for approval further. 2. To approve the expenses incurred from January to February 2016. 3. It was informed that Expenses are within Budget. This was discussed and approved. <ol style="list-style-type: none"> a) To approve the Faculty & Staff requirement for 2016 – 2017 Faculty requirements as per Students Teacher Ratio and guidelines were discussed and approved. b) It was informed that Admin. Staff requirements shall be kept to minimum as far as possible since we already have good number of such Staff. 4. To approve the Budget for Financial Year 2016 – 2017, Following changes were suggested – <ol style="list-style-type: none"> a) Provision of Rs. 5, 00, 000/- as Reserve Fund for Charity should be made. b) Considering the voluminous activities and related requirements, the Budget of ‘T & P’ should be increased from 6 Lacs to 10 Lacs c) The Budget was reviewed and approved <p><u>25/01/2016</u></p> <ol style="list-style-type: none"> 1. To approve the expenses incurred from July to December 2015. <ol style="list-style-type: none"> a) Expenses were reviewed and it was mentioned that they are within budget. Strong administrative control and regular monitoring were appreciated. b) The expenses incurred from July to December 2015 were approved c) Applying for the NRI / Foreign Nationals and PIO Seats from Academic Year 2016 – 2017. This was discussed and it was agreed to apply for the same. |

26/10/ 2015

1. Regarding recommendation of a new Member as 'Faculty Representative' on GB in view of superannuation of Prof. A.M. Kurkure, it was mentioned that Dr. S.S. Lakade, Professor and Head Mechanical Engineering Department is an approved senior Professor and is recommended for the same. This was discussed and agreed.
2. On the same lines it was mentioned that we can invite Mr. S.J. Kalokhe (Chairman, QCFI Pune Chapter) and Dr. Sanjay Dhande (Academician, Ex Director IIT Kanpur) as Representatives on the GB. Association with such Professionals would be beneficial for the development of our Institute.
3. The recommendation was made by LMC, held on 22/07/2015, to approve the expenses incurred from Feb to March 2015 and April to June 2015. The expenses were reviewed, discussed and approved.
4. Results were reviewed, it was mentioned that significant improvement is visible in the Results and Quality Results also have been improved for all the Programs. Satisfaction was expressed regarding the good results and it was suggested to continue with the good efforts.
5. To approve the Self-Appraisal Scheme for Faculty and Staff Self-Appraisal Scheme for Faculty was reviewed, appreciated and approved. It was informed that Self-Appraisal Forms for the Non-Teaching Staff are designed and would be put up in the next LMC for consideration and subsequently in the next GB Meeting.
6. During discussion, it was suggested that with this level of commitment and preparations we can think of applying for NAAC Accreditation simultaneously. This was received well and Dr. A.M. Fulambarkar mentioned that this would definitely be taken up in the due course of time however for now the focus is on receiving the NBA Accreditation as per Global Norms.
7. Revised Budget in view of actual Admissions and Fees –
 - a) It was informed that the Budget is revised in heads including Salary, Furniture, Reserve Fund and Supervision charges (details attached for ready reference). This was reviewed, discussed and agreed.
 - b) Compliance to the findings of the DTE Committee Visit in June 2015 – it was informed that the necessary compliance would be made. This was reviewed, discussed and agreed.
 - c) Rise in DA from 107 to 113% – sincere thanks were conveyed on behalf of the entire Team for this rise in DA.
 - d) Regarding applying for the affiliation for Academic Year 2016 –

| | |
|-----------|---|
| | 2017 it was informed to go ahead with the related processes. |
| 02 | <p><u>11/03/15</u></p> <ol style="list-style-type: none"> 1. Recommendations for the following points from LMC on 11th March 2015 were received, discussed and approved. <ol style="list-style-type: none"> a) Budget for the Academic Year 2015 – 2016 b) Faculty and Administrative Staff requirements for the Academic Year 2015 – 2016 2. Information was shared regarding the Circular received from Savitribai Phule Pune University; about change in Probation Period of Faculty appointments from 2 Years to 1 Year. This was discussed and decided that all new Appointments would be made accordingly. 3. Regarding arranging ‘Training Programs’ for Non-teaching and Supporting Staff, it was mentioned that this can be taken up under the Staff Development initiatives. 4. Regarding Leaves for Non-teaching Staff, it was agreed to increase the number from 8 days to 12 days with effect from next Academic Year i.e. 2015 – 2016. |

6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If ‘yes’, what are the efforts made by the institution in obtaining autonomy?

Yes. Affiliating university SPPU has a provision for according the autonomy status to an affiliated institution.

PCCOE is currently having permanent affiliation to its UG programs under SPPU. PCCOE is recognized institute under UGC 2(f) & 12(b) section. It is strongly in favor of autonomy and gradual efforts are being put in the given direction of autonomy status. The college has recently got re-accreditation for four UG programs Viz. Mechanical, E&Tc, Computer and IT. We are having perspective plans to go for autonomy very soon. The awareness about the rules, responsibilities and source of commitment of faculty, staff, HoDs and Deans is being made which is very important for autonomy to lead to desired outcomes and growth. The institute wishes to apply for Autonomy, after seeking Accreditation from NAAC.

6.2.9 How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyse the nature of grievances for promoting better stakeholder relationship?

The institute believes in harmony and conducive environment and ensures transparency and clarity in all its functioning. As a part of PCCoE culture, every member of institute is welcomed by the Principal to communicate his/her feelings directly. However, to take care and address any Grievances / Complaints a formal

grievance Redressal mechanism is in place and operated through i) Women grievance cell, ii) Reservation cell, iii) Anti ragging and discipline cell. Grievances are put forth to the respective committees, and an attempt is made to ensure effective redressal of the grievances so as to avoid the reoccurrence in future.

6.2.10 During the last four years, had there been any instances of court cases filed by and against the institute ? Provide details on the issues and decisions of the courts on these?

NA.

6.2.11 Does the Institution have a mechanism for analyzing student feedback on institutional performance? If 'yes', what was the outcome and response of the institution to such an effort?

Feedbacks at various levels are taken from students such as,

1. Academic feedback through ERP
2. Feedback in the PTG Meeting
3. Course End Survey
4. Student satisfaction form
5. Suggestion box
6. Student Exit feedback
7. Alumni feedback

There exists a mechanism to evaluate and analyze institutional performance at various levels & the recorded responses are communicated through Head of the departments to the Principal office, Deans, respective Section and Portfolio in-charges for remedial actions.

These feedbacks are compiled and final reports are first generated at the department level. If the suggestions can be resolved at the department level then these will be resolved and action taken report is shared through the Notice boards and other means of communication.

The feedback suggestions which cannot be addressed at the department level then will be forwarded to the Administrative office for further decision. A meeting is convened of Principal, Deans, HODs, Section In charges as and when necessary and also at the end of each semester to address such issues and the action taken report is then communicated to the students through the departments. If any suggestions are found very important & urgent, are addressed immediately and appropriate decisions are taken without any delay.

Many improvements regarding the Teaching learning process, infrastructural requirement, Central facilities such as Canteen, Library, Internet etc are suggested by students and the necessary steps are taken by the authorities to improve the facilities at the Campus.

6.3 Faculty Empowerment Strategies

6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non teaching staff?

The PCCOE is located in the close vicinity of the industrial hub and is well recognized to provide skilled man power to the industry. The PCCoE philosophy is based on sustainable development through academic excellence, innovation and research. A key in keeping with the continual thought-provoking environment and its challenges has been the efforts towards continuous development and enrichment of the faculty and the non-teaching staff. The institute has 27 faculty having PhD qualifications while 34 faculty members are pursuing PhD. All faculty members are having PG qualifications. From non-teaching staff 12 have completed and 03 are pursuing higher studies.

The management of the institutes believes that the faculty is a key to success. Therefore in order to maintain the pace of its dynamic growth, the institute always encourages staff members to go for higher studies, participation in various national and international seminars, conferences, technical events etc. to keep their knowledge up to date.

To strengthen the innovation and research pillar of PCCoE philosophy, the institute provides additional facilities like provision for special leave in addition to study leave, flexibility and convenience of rescheduling the teaching load of the researcher, etc. Financial assistance is provided for its staff to undertake research projects, participating and / or organizing in conferences / seminars / workshops / training programs. The institute also organizes various interdisciplinary workshops and training programs to address the recent trends for enhancement of the skill requirements. These initiatives nurture the research culture among staff members and extended to the students.

6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?

A systemic methodology is established in the institute to execute teaching and learning process. To cater this need, clear roles and responsibilities are defined at various levels. Proficiency of the faculty is developed through supportive environment. Each department has formed Special Interest Groups (SIGs) led and mentored by a senior faculty member as SIG in-charge. The SIG in-charge guides the faculty teaching subjects belonging to the Group to deal with depth and breadth of the subject. This enables the Faculty to teach effectively.

Training needs are identified through interactions at various levels of institute and department through (interactions of SIG in-charges with faculty) before the commencement of the academic year. The identified training needs are met through

internal training programs / FDPs / Seminars / Workshops at institutes of repute and in the industry. Before commencement of semester, Course Coordinators and senior faculties deliberate on to form a common strategy for teaching-learning process, Content Delivery Methods (CDMs) and to prepare necessary study materials for students.

Newly joined faculty member has to undergo an orientation program to get acquainted with academic and administrative procedures of the Institute in order to realize the Mission and Vision of the institute.

Formal and informal meetings and deliberations between teachers of different departments to bring clarity and to motivate faculty to take the collaborative interdisciplinary projects.

6.3.3 Provide details on the performance appraisal system of the staff to evaluate and ensure that information on multiple activities is appropriately captured and considered for better appraisal.

- A well-defined performance appraisal system exists.
 - Performance appraisal is done annually at the end of each Academic Year.
 - To evaluate the staff performance, staff feedback & Confidential Reports from HOD is considered.
 - Appreciations & rewards are given to the staff members.
 - For better appraisal the counseling of staff members is carried out time to time.
- Staff Self appraisal process is followed in the Institution. Self appraisal forms are also filled by each faculty, which are reviewed by HODs/Section In charges and further by the Principal.

6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they communicated to the appropriate stakeholders?

- The performance appraisal is done annually by the end of each academic year.
- The performance is measured based upon well-defined performance appraisal system giving due weightage for academics, research and consultancy, self-development and self-discipline, contribution towards Student, Department and College development.
- The performance is communicated through appreciation letter to the staff members having good performance.
- The performance is also communicated to staff members having performance below satisfaction.

6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of staff have availed the benefit of such schemes in the last four

years?

Following welfare schemes are available for teaching and non-teaching staff associated with the Institute.

- GIS (Group Insurance Scheme).
- Maternity leaves for ladies staff
- Faculty is deputed for PG and Ph.D. program with salary (as per policy).
- Gratuity
- PCETs employee cooperative society Ltd.
- EPF to all staff members
- Leaves as per the norms to all staff.

| Scheme | GIS | Maternity leave | PhD | ME | Admin staff-Higher study | Gratuity | Cooperative society members |
|--------|--------------------------------------|-----------------|--------------------|-------------------|--------------------------|---------------------|-----------------------------|
| % | 256/368 (total staff) = 69.56% | 15/150 = 10% | 38/210 = 18.09% | 24/210 = 11.4% | 15/158 = 9.49% | 224/368 = 60.86% | 280/368 = 76.0% |

6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?

The institute believes in harmony and conducive environment and ensures transparency and clarity in all of its functioning. Institute is functioning as per the norms laid down by various statutory bodies.

- The institute offers salaries as per the 6th pay recommendations along with the mandatory provisions of Gratuity and EPF.
- The leaves and vacations are sanctioned to the staff as per the norms.
- The research environment is supported with best infrastructure of the institute, IP based Electronic Library access, Wi-Fi enabled campus, well-equipped digital Library and access to multiple knowledge repositories facilitates, etc.
- Due support is given to the faculty for qualification enhancement
- Recognition is given to the faculty for research publication, contribution in institute / departmental activities.
- Faculty members are encouraged and sponsored for Faculty Development Programs, Workshops, STTP, Seminars and Paper publication / presentations, etc. to get acquainted with recent trends and technology.

6.4 Financial Management and Resource Mobilization

6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?

The institute takes utmost care for preparing its Financial budget, its allocation and utilization by the respective departments and sections. There are various budget heads taken into consideration and as per the requirement the allocations are done, Following is the process which is followed to prepare and allocate the budgets for the institute,

Budget preparation and its allocation:

- The Academic Departments and other Sections such as Library, Training and Placement, Administrative Office are asked to prepare and submit the Budgeted Expenditure for major Heads such as Laboratory Equipment, Consumables, Software, Maintenance, Library, Students and Staff Development, Research etc.
- Considering the requirements for next Academic Year, Natural Growth in Students Intake, expected Receipts through Fees and previous Year's actual Expenses, the Budget for the next Financial Year April to March is prepared.
- This Budget is put for Discussion, Review, Suggestions and Recommendations in the Meeting of the Local Managing Committee.
- The Budget after recommendations of Local Managing Committee; is put up for Considerations and Approval in the Governing Body Meeting which normally convened in the month of March for this purpose.
- After getting Approval to the Budget by the Governing Body, the appropriate Allocation of Budgeted Funds against various expenditure heads is made to the Academic Departments and Sections; based on the tentative Budgets submitted by them.
- The allotted Budget is informed to Heads of Departments and Section In charges for further necessary Processes.

Periodic Reviews of actual expenditure incurred against the allotted Budgets are taken in the Meetings of the Local Managing Committee and put up for Approval in the Meetings of the Governing Body.

6.4.2 What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.

Internal Audit:

- The accounts and procedures of internal control of finance are carried out by the head of the accounts team on a day to day basis and quarterly audit is done by the internal auditor.
- Internal audits are conducted quarterly by the Accounts section of the College and the Chartered Accountant.

- The audit of accounts and submission of Quarterly return of 24Q & 26Q tax returns are carried out quarterly.

External Audit:

- The accounts and procedures of internal control of finance are carried out by the head of the accounts team on a day to day basis and annual audit is done by the statutory auditor.
- The audit of accounts and submission of income tax returns are carried out regularly each year.
- External Audit was conducted in June 2016 for the period 01.04.2015 to 31.3.2016
- There are no audit objections since the institution follows a good system of internal controls like calling quotations, comparison of rates, preparation of purchase order and approvals at every stage of such implementation and due verification of goods and services that are obtained after delivery or completion of works. No expenses are incurred without proper approval or sanction by the Head of the institution.

6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with Institutions, if any.

- Efforts are taken by the college to mobilize the resources using following means:
- The major source of institutional receipts is student’s educational fees for meeting routine salary and non-salary expenses.
- Income from other sources is interest on fixed deposits, conduction of competitive and university examinations, consultancy etc.
- Balance sheet of Last four Years is made available on college website (www.pccoepune.com).
- Reserve fund & corpus fund is maintained by PCET as per the rules and regulations for charitable trusts as laid down by the charity commissioner. Any shortfall/ deficit are managed by taking assistance from the Trust (PCET).

| Name of the Internal Source | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
|------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Student Fees | 31,16,45,680/- | 26,93,78,670/- | 22,81,55,296/- | 18,27,08,306/- |
| Bank Interest | 57,58,438/- | 43,66,999/- | 37,40,298/- | 55,00,628/- |
| Others | 1,36,15,685/- | 89,39,947/- | 93,82,982/- | 55,04,643/- |
| Total | 33,10,19,803/- | 28,26,85,616/- | 24,12,78,756/- | 19,37,13,577/- |

(All figures are in Rupees)

6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).

The Institute is taking necessary efforts for securing additional funds from various agencies like AICTE, BCUD SPPU, etc. It is continuously putting efforts to generate the funding for facility creation to bridge the gap between industry and institute. These collaborative efforts are beneficial to the various stakeholders. The funds obtained in specific vertical are ensured to be utilized for the said purpose. The institute has received funds from various funding agencies as mentioned below.

| S. No. | Funding Agency | Amount Received (Rs.) | Year |
|--------|---------------------------|-----------------------|-------------|
| 1 | 3DPLM | 11,00,000.00 | 2015 – 2016 |
| 2 | AICTE, NEW Delhi (MODROB) | 16,75,000.00 | 2012 – 2013 |
| 3 | BCUD, SPPU, Pune | 15,09,000.00 | 2011 – 2016 |

The funds received from AICTE are utilized for the modernization of the laboratories and developments of vibration lab and VLSI lab. The BCUD funds received by faculty members for strengthening the research are utilized completely. The necessary audits are done by the internal and external auditors.

6.5 Internal Quality Assurance System (IQAS)

6.5.1 Internal Quality Assurance Cell (IQAC)

a) Has the institution established an Internal Quality Assurance Cell (IQAC)? If 'yes', what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?

- The Institute has implemented the QMS (Quality Management System) since 2012 and has received the ISO 9001:2008 certification in January 2014, (TUV NORD INDIA).
- As per the XII Plan Guidelines for Establishment and Monitoring of the Internal Quality Assurance Cells (IQACs) in accordance with the UGC guidelines, the IQAC is constituted in the formal way from academic year 2016-17. But prior to formation of IQAC the QMS system was in implementation.
- The ISO takes care of planning, guiding and monitoring Quality Assurance (QA) and Quality Enhancement (QE) activities of the institute.
- The Institute has its own Internal Quality Assurance system working in line with the ISO processes to streamline and support for ensuring the quality in Academic Processes and overall Administration of the Institute.
- Academic and administrative processes are continuously monitored and measured through Quality Objective status, internal audit results and Stakeholders feedback. The teaching and learning processes are regularly analyzed, recorded and rectified for the improvements.

In order to ensure the Quality at every level, the institute has formed a committee under the Guidance of the Principal, Deans and Heads of the Departments. There are various functions carried out under the guidance of coordination committee i.e.,

- 1) Academic Excellence through Qualitative and Quantitative Results
- 2) Promotion and Strengthening Research Culture through –
- 3) Project based Learning, Research Publications in Journals / Conferences, Patents / IPR, MoU with Research Organizations / Industries etc.
- 4) Revenue generation through Consultancy, Collaborative Programs, organizing Add on Courses, Special Technical Courses, etc.
- 5) Financial Assistance Proposals through various Funding Agencies such as AICTE, DST, UGC etc.
- 6) Capability Building of Students through Skills Development, Aptitude Training, Technical Add on and other Professional Courses, Foreign Language courses overall Personality Development activities such as soft skills, Games, Sports and Cultural
- 7) Qualitative and Quantitative growth in Placements
- 8) Efforts for inculcating Values, Ethics, Spirituality, Code of Conduct and Discipline, Sense of Social Commitment etc.
- 9) Infrastructural Development of the Departments and College
- 10) Ensure all Mandatory and Legal Commitments of the Affiliating, Governing Bodies in all respects.
- 11) Faculty and Staff Training, Development and Welfare
- 12) Organization and / or participation in State / National Level Events such as Techlligent, Spectrum, Insperia, Zest, ROBOCON, SAE BAHA, SAE SUPRA, Technical / Project Exhibition etc.
- 13) College Promotion and Publicity through various University, State, National, International Recognitions, Awards
- 14) Prepare and project the College for Autonomy through strengthening, Team Work, Involvement, Loyalty and utmost Commitment; to be a World Class Institute of high repute.

This overall development also ensures institutionalization of the quality assurance processes defined under ISO 9001:2008. Management authorizes Head of the institute as top management for enriching the institute as centre of excellence. All authority lies with Head of the institution for quality improvement of the institute. Quality objectives are measurable and consistent with the Quality Policy. The principal approves all quality management system manuals and changes in the system. Responsibilities of all individuals are defined, documented and communicated through Process manual. The system is well established and implemented through various processes defined in process manuals as mentioned in 6.2.1.

- b) How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?***

In ISO system the decisions are taken in the Management Review meeting (MRM) conducted at the end of every semester after the Internal audit, under the leadership of Principal in presence of all Deans , Head of Departments, Section In-charges and ISO departmental co-ordinators. These decisions of Quality assurance system are well recorded in the form of Minutes of Meeting (MoM) and are available with Management Representative.

- c) Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.***

The IQAC consists of external members from Industry and Alumni representatives. Every department has Departmental Advisory Committee (DAC) that comprises of External members from Academic, Research, Industry, Alumni, Parent. During the DAC meeting the suggestions of these external members are considered for decision making. The contributions include framing of outcomes of programme, bridging the gap between academia and industry and are well available in the form of MoMs in the respective departments.

- d) How do students and alumni contribute to the effective functioning of the IQAC?***

The IQAC of the College has been functional since academic year 2016-17. Feedback mechanism at department level is functional and seeks feedback from students and alumni frequently to strengthen the academic and administrative processes. The suggestions given in the feedbacks are discussed and resolved in the department level and institute level meetings and corrective actions are decided in the presence of Principal, Deans, HoD's.

- e) How does the IQAC communicate and engage staff from different constituents of the institution?***

All the staff from different departments of the institute are communicated and engaged by the IQAC through the Quality Management System (QMS). In QMS all the cell/committee In charges defines their own quality objectives in accordance with institutional quality policy and is monitored through the audits (Internal/ External) for effective communication and coordination among various constituents of the institute viz. Management, Faculty and Administration. Such an all-inclusive composition ensures healthy participation of the fundamental blocks of the Institution in the Quality Assurance process from the first step of conceptualization to the final step of implementation.

6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If 'yes', give details on its operationalization.

For quality assurance of academic and administrative activities, well defined framework is operational that include team of Principal, Dean academics, Head of Departments and Management Representative (MR) - ISO. This Integrated framework assures quality by means of Academic Review Meetings (ARM). The overall system is monitored through Internal audits, Management Review Meetings (MRM) and Surveillance audits (External audit) under ISO 9001:2008 process at institute.

6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If 'yes', give details enumerating its impact.

The Institute offers training at various levels for effective implementation of the Quality and this is guided and monitored through Quality manual. The Institute hired the services of “M/S Shree Consultancy, Nashik” for providing the training to Internal Auditors and also to the Academic and Administrative staff members.

Training is categorized in three stages

- 1) Top Management Training
- 2) Internal Auditors Training
- 3) Individual teaching and Non-Teaching staff Training.

Efforts are taken by Management representative (MR ISO) to provide sufficient training to the internal auditors and ISO coordinators to ensure quality of teaching learning and other activities. Dean academics also put efforts to train academic coordinators to ensure the quality in academic activities by individual faculty and staff for effective teaching – learning enhancement. Induction training program is conducted, for newly appointed faculty members, at institute and department level to appraise them with the processes adopted. Management review meeting ensures the effectiveness of these trainings in terms of achieved quality objective index.

6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If 'yes', how are the outcomes used to improve the institutional activities?

The Institute conducts Internal audit every six months and an external audit once in a year. A team of Internal auditors audits every department for the compliance of existing processes and generates the audit report. Based on the audit findings an MRM is conducted once in six months where the audit findings are discussed and in the case of any noncompliance effective measures are taken. These measures for non-compliances are taken as input for improvement of the Institutional processes to ensure the quality.

The students and parents feedbacks are analyzed for their suggestions and

expectations. The two level structures, one at departmental level and other at Institute level is defined to implement these suggestions and its implementation whose status of completion is verified in internal audits and MRM. The principal and Deans ensure the implementation of planned versus actual status of departmental activities, self-appraisal reports and annual reports through ARM meetings and suggest improvements.

External audits are held by statutory bodies like affiliating University, DTE and AICTE. The suggestions such as student development, strengthening library facility in terms of books and journals, creating advanced laboratory facilities, improving industry institute interactions and infrastructure are considered and well addressed by the institute. These suggestions are thus useful in overall development of institute and satisfying Outcome Based Education (OBE) philosophy.

6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies/regulatory authorities?

The institute's Quality Management System (QMS) update regularly with the new mechanisms / requirements of external quality assurance agencies / regulatory bodies such as affiliating university, DTE and AICTE, through their notifications / circulars and websites. These circulars are studied in detail and analyzed by the institute's General Committees (G1-G12). The modifications / suggestions recommended by General Committees are incorporated in the administrative and academic system to enhance the qualitative outcome.

As an example, the institute has adopted the outcome based education model according to new NBA 2015 guidelines. The up-gradation of ISO 9001-2008 to ISO 9001-2015 is in process and will be implemented soon. As such, internal quality mechanisms are congruent with the requirements of external quality assurance agencies and regulatory agencies.

6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?

Academic Monitoring and Control committee take continuous review of academic processes in the institute. Before commencement of the term, academic calendar is prepared. Faculty plans lectures and allied academic activities for the entire semester and all the academic coordinators ensure that the activities are conducted as per schedule in the internal academic monitoring.

Academic coordinators monitor the day to day academic activities and reviews are taken through academic review meeting (ARM) conducted twice in a semester. A schematic of the academic process implementation and its review is

shown in the flowchart below. Quality of academic activities is ensured through the team specified with various checks and meetings.

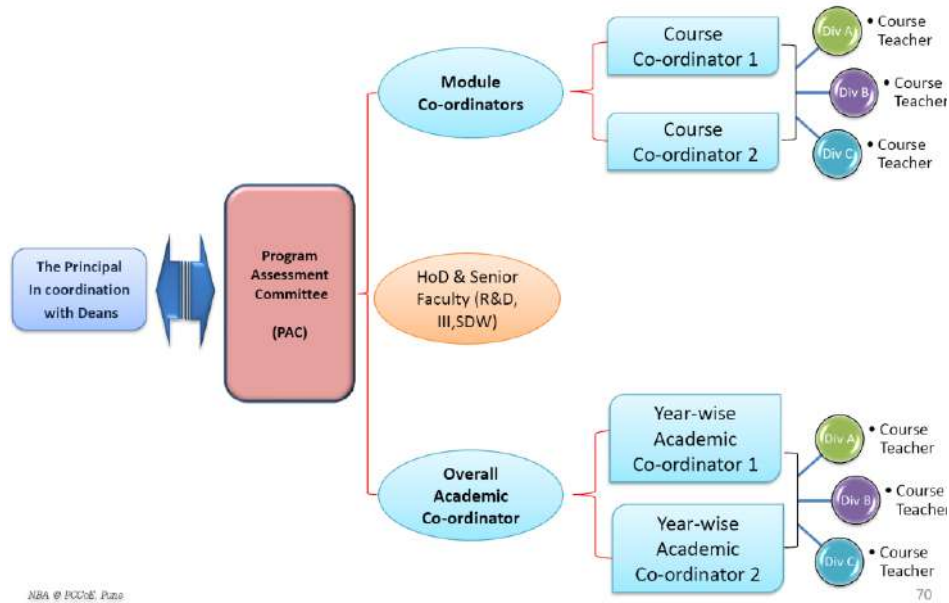


Fig.: Academic coordination and monitoring

The ISO internal and external audit ensures the overall quality of teaching and learning process and outcome is measured through academic results, placements, industry-institute interactions and quality projects.

6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?

The quality policy statement is disseminated to the internal and external stakeholders through various means like display boards, Newswire – a technical bulletin published twice in a year, Institute brochure and website www.pccoepune.org.

The quality assurance policies and mechanisms are well documented in ISO process manuals, quality manual and are easily accessible to internal and external stakeholders. Outcomes of the academic and administrative processes are documented in the form of various reports and are made available to the stakeholders in terms of hard copy, signboards, display boards and through institutional websites. The quality policies/ mechanisms and outcomes are also communicated to the stakeholders during Parent Meet, Alumni Meet, etc.



CRITERION VII: INNOVATIONS AND BEST PRACTICES

CRITERION VII: INNOVATIONS AND BEST PRACTICES

7.1 Environment Consciousness

7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?

Utmost care and initiative is taken by the management, faculty, staff and the students, through various projects periodically to make campus green and clean. Also separate Green Audit of the campus is carried out recently from third party consultant. This is done by supervising the existing status of few of the aspects under audit concept, like: maintenance of the existing trees and locating places for planting new trees. Nurturing plants is one of the non-academic pursuits that develop eco-concern among the students. We strive for optimum use of power through minimizing wastage of electricity and water.

Green Educational Campus: PCCOE consistently receives award from Pimpri Chinchwad Municipal Corporation (PCMC) for Green Educational Campus in entire vicinity based on the Green Audit conducted by officials of PCMC.

At Institute level various committees are formed, Beautification Committee is one of them. The Committee has taken various efforts under the guidance of institute leadership to keep campus clean, green and pleasant. Diversity has been very well kept in mind while planting trees in campus.

All the buildings in the campus are constructed to promote minimum consumption of electricity and there is maximum illumination and ventilation in each of the class rooms and laboratories. Although there is no direct measurement but this electricity saving add directly to the reduction of carbon footprint.

The use of plastic bags is avoided in the campus and declared the entire campus as “No Plastic Zone”.

7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?

- *Energy conservation*
- *Use of renewable energy*
- *Water harvesting*
- *Check dam construction*
- *Efforts for Carbon neutrality*
- *Plantation*
- *Hazardous waste management*
- *e-waste management*

PCCOE is known for its ecofriendly, green foliage landscaped with lawn spaces using recycled water with strictly no smoking zone in the campus. College has taken

various steps to keep the college campus green and eco-friendly. The following are few initiatives worth mentioning.

Energy conservation:

- **Optimum use of available energy:** Institute tries to save each and every unit of energy on the campus by making optimum use of available energy. Maximum efforts are taken to make students and staff aware of energy conservations by display of reminders notices like “Switching off Tubes-Lights and Fans while leaving the classrooms and Labs”
- Almost all street lights, toilets and corridors are provided with the LED fittings.
- Boys and girls hostels are equipped with 4 CFL in each room and LEDs’s are replaced whenever existing tube lights are non-functional
- **Ganesh reservoir** outlet streamline runs through the PCCOE campus. Water is lifted from this streamline for watering the garden and lawn.
- Earlier computers with CRT monitors were used. They have now been replaced with computers having LCD monitors that are advantageous for energy conservation.
- **A Maintenance Committee** to take care of Academic Infrastructure and Facilities is formed, who keeps vigilance on wastage of water, electrical equipment etc to minimize the energy consumption, thus resulting into saving of carbon emissions.
- **NSS** in the institute is one of most active cells which have undertaken various projects outside the campus to reach society and imbibe various values through programs like Village Adoption, Tree plantation campaigns and Nirmalya Recycling Awareness etc.

Use of Renewable Energy:

The use of solar water heaters for hot water is promoted at various building in PCCOE. The faculty members motivate the students to carry out projects and activities related to Environmental Conservation. Few of the projects and activities are listed below:-

- Project on tidal energy under the guidance of Prof. S D Deshpande is completed
- Smart City related competitions are organized to promote green computing
- Project on river front development is carried out by students
- Various projects are funded by BCUD, SPPU like “Organic Waste to Energy” by Dr. S. T. Mali and “Solar Air Dryer” by Mr, S. P. Salvi

Details of solar water heating system provided in boys and girls hostels for hot water requirement as given in the following table.

Table 7.1.3.1: List of Solar Water Heaters Installed in the Campus

| Sr. No. | Building Details | No. of panels installed | Capacity (Liters) |
|---------|------------------|-------------------------|-------------------|
|---------|------------------|-------------------------|-------------------|

| | | | |
|----|------------------|---------------------------|-------------|
| 1. | Old Boy's Hostel | 5 panels | 5000 lit. |
| 2. | New Boy's Hostel | 5 panels with heat pumps | 5000 lit. |
| 3. | Girls hostel | 10 panels with heat pumps | 10,000 lit. |

Water harvesting:

- The waste water is reused for gardening / landscaping, which reduces the pressure on Urban Local Body like Pimpri Chinchwad Municipal Corporation fresh water supply.
- ***Provision of safe drinking water:*** Water Purifiers are installed on each floor of all buildings in the Campus to provide healthy, potable drinking water with Water Coolers. The Potable Water Facility is periodically checked (Three times a year) and regularly maintained through competent Agencies.

Check dam construction: • NSS activities include construction of Bandharas at appropriate village location during NSS camps.

Efforts for Carbon neutrality:

- Almost all tubes lights are replaced by CFL and LED at boys and girls hostel.
- By conserving and reusing energy the need for excessive use of fossil fuels can greatly reduce, thus reducing carbon emissions. Installing solar panels helps in reducing carbon emissions.
- Minimum use of A.C. at our AV Hall and administrative offices.
- We are in process of partially converting LPG base cooking to Biomass gasifier based cooking, to begin with Girls Hostel Mess.
- Faculty and students are made aware of various measures to reduce carbon footprint through posters advocating the following:
 - driving a fuel-efficient vehicle,
 - printing only when necessary,
 - switching off electrical appliances when not in use,
 - reducing use of plastic etc.
- One tree can off- set 0.8 ton of carbon dioxide therefore one of the major measures taken up by the college is to plant trees and maintain them.
- Flowering plants have been planted to attract insects and birds

Plantation:

- Every year students along with the garden staff plant trees. Personal experience of sowing seeds, watering plants, preparing and using organic manure, removing weeds etc., has sensitized the student volunteers, club members and to non-teaching staff as well.

Table 7.1.3.2: Plans in the campus

| Sr. No. | Type of plantation | Total number |
|---------|--------------------|--------------|
|---------|--------------------|--------------|

| | | |
|----|-----------------------------|----------|
| 1. | Shrubs with kundi | 430 |
| 2. | Trees | 611 |
| 3. | Duronda roshan - decoration | 2332 ft. |
| 4. | Himachal pentus | 91 ft. |

- Gardens are maintained through garden maintenance contract. Professor-In-Charge of College Beautification and House Keeping Committee supervises the maintenance of the existing trees and location of planting new saplings.
- To spread the awareness of environmental conservation and promote greenery, institute follows the culture of presenting saplings (instead of bouquets) to guests and experts invited to the institute.
- Motivational Videos are shown to make students aware about the environmental issues.
- Activities like “Tree Plantation” and “Save the Trees” are held.
- Students also performed cleanliness drive at Ghoradeshwar Temple as a social responsibility
- Under Institutional Social Responsibility students plan and organize projects and activities in plantation, cleanliness, up-keepment drives, waste management, e-waste management, rain water harvesting, filtration plants prototype, Environment protection.

Hazardous waste management:

- No hazardous waste is generated in the campus. However to safeguard the buildings from fire hazard following measures are taken.
 - Limiting the height of the building and providing specious passages.
 - Fire extinguisher provision for every building.
- Liquid chemical wastes generated from chemistry laboratory and environmental laboratory are diluted/ neutralized and then discharged.

E-Waste Management:

- The E- waste is collected and periodically sold to vendors for recycling.
- Specific Event Theme are conducted in Kshitij 2016 on E -Waste Management to make students aware about the “E-waste” and Recycling the E-Waste.

Any other:

Swatchha Bharat Abhiyan: It is India’s biggest cleanliness drive. Students of PCCOE have joined their hands in this mission, thereby initiating clean campus drive. Students are thus motivated to keep environment clean. Institute has participated in Swatchha Bharat Abhiyan through rally conducted in nearby locality.

Anti-Tobacco Campaigns are conducted to spread awareness about the ill effects and

dangerous effects on health which further leads to cancer due to consumption of Tobacco.

7.2 Innovations

7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the college.

- **Research and Development Cell:** The R & D cell in the institute is fostering the innovation culture in the institute which has resulted in numerous patent filed by faculty members and students. There are various students clubs in the institute wherein students develop and demonstrate skills and knowledge. Active participation of students in SAE BAJA, SAE SUPRA, ROBOCON competitions to nurture culture of innovation. Special Interest Groups (SIGs) are formed under this R&D cell to establish and enhance research culture among the students.
- **Innovation and Incubation Center:** An incubation center which aims to develop in-house projects has been started to motivate students' participation in renowned competitions.
- **Parent Teacher Guardians (PTG):** The Institute has developed a PTG system to strengthen teacher students' relationship beyond academic learning that will help students' Holistic Development as Responsible Citizen.
- **Regular Academic Reviews:** Verification and validation of academic outcomes by
 - Departmental Meetings for Academic Monitoring: Discuss the regularity of students, TL conduction issues, faculty feedback, performance of students and corrective actions.
 - Institute level Academic Review Meetings (ARM): Discuss the observations of Departments, verify planned V/s Actual, Corrective actions and long term planning.
 - ISO – Management Review Meeting (MRM) : Analysis of targeted objectives of the performance such as quality and overall results, toppers etc. planning and corrective actions towards continual improvement
- **Scrupulous Planning:** Resources & Events for timely and systematic execution of Academic Calendar, Event Calendar, Time Tables, Teaching plans, events schedules etc.
 - Meetings of Course and Module Coordinators- Curriculum discussions, resource requirements planning, activity planning, Outcomes- COs formulation, CO – Targets and attainment
 - HOD Meetings with Principal – Requirements Infrastructure Creation, equipments procurement, Faculty and appointments, trainings etc

- **Event organization:** The Institute offers various opportunities to students to organize various events such Annual Gathering, Tehlligent, Spectrum, Inperia, PGCON, Projections, III Meets, Inductions, Alumni Meet, Art Circle Activities,
- **Language Lab:** Institute has Setup Language Lab to improve self learning of Spoken English. We have installed the English Language software in every department. This software is used for students to improve their communication skills.
- **Co-curricular and Extra-curricular Activities:** to promote cultural activities among students and to provide platform to students who are ready to display their talents. Various In-house Poster Competitions are organized to display innovation and learning of students.
- **Enhancing Student's Aptitude and Communication Skills:** by organizing various training program on "Aptitude and Soft skills" is started for all the second year engineering students to prepare them for aptitude tests for various companies and other competitive exams, improve their communication skills and groom their overall personality to adapt easily to corporate culture.
- **Excellent Academic Planning and Monitoring** of Performance for timely and systematic execution - Academic Calendar, Event Calendar, Time Tables, Teaching plans, events schedules etc.
- **Add-on Courses and Training Offered for Certification:** Professional Development Cell encourage students for enhancing their technical skills through various add-on courses and training programs like IBM certification, MSIT Certification, SAP, CAD-CAM etc. or any such program
- **Parent's meeting:** Every department organize parents meet to seek cooperation and involvement of parents. They share their thought about various activities conducted in the college.
- **Activity Based Learning:** Faculty members design various activities and games for students, related to various subject such as role play and group discussions are carried out in the department. activity based learning are incorporated into the curriculum teaching as measures to enhance the competence of the students and render them employable.
- **MoU to reduce academia industry gap:** Faculty Members are fostering associations with industry so the academia industry gap is bridged. With the goal of exposure to the updated technology and innovation happening in industries different MoU with well-known professional institutes and industries are signed. They keep students updated with the latest technologies and give them wide space to apply their knowledge and skills to find the solutions to the different problems faced by the industries.
- **Wi-Fi campus:** Increase in the number of Information and Communication Technology (ICT) enabled classrooms; LCDs and Wi-Fi campus have promoted extensive use of ICT and use of E-learning resources for innovative teaching

learning.

- **Corporate socially responsible** : The college complies with its social responsibilities through the Social Interaction and NSS Cell by performing the following activities:
 - NSS Students of our College performed activity of Nirmalya collection during Ganesh Chaturthi.
 - NSS Cell participated for Samartha Bharat Abhiyan
 - Organizing Blood Donation Camps
 - Organising Health Awareness Programme
 - Programme on Road Safety - Students' role in controlling accidents are organized in PCCOE to celebrate Road Safety Week

7.3 Financial Management and Resource Mobilization

7.3.1 Elaborate on any two best practices in the given format at page no. 98, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the college.

Best Practice 1

Title : **Holistic Growth through Student Development and Welfare Activities**

Goal : We believe in a holistic education that addresses intellectual, physical, emotional, spiritual, and social needs and capacities of students that help them become their best self in the service of society at large. Main goal of Student Development and welfare section is to provide programs and opportunities that support students in achieving their overall development.

The context : The strategic planning is required for overall developmental and sequential programs/activities to support progressive development of students. Various personal and professional skill development programs viz. Communication and Soft Skill programs, Aptitude Training, Technical Skill enhancement programs, Foreign Language Certification Courses, Personal and Spiritual Development Programs, Entrepreneurship Development Activities, and Preparation courses for competitive Examinations (Gate/GRE/CAT/MPSC/UPSC etc.) are made available on campus through various professional agencies.

The Practice : Student Development and welfare section comprising of different cells and committees listed below which are committed to provide programs and opportunities that support students in achieving their overall development.

- Communication and Personality Development Cell (CPDC)
- Professional Development Cell (PDC)
- Higher Study Cell (HSC)
- Students Welfare, Anti-ragging and Discipline Cell (SWAD)

- Art Circle
- Institute Social Responsibility (ISR)
- Games and Sports
- Student Association

Evidence of Success :

- YES!+ course is organized every year for the FE students which teaches us how to be productive and dynamic while staying cool and centered.
- Various technical skill development and foreign language training programs are organized in all the departments to improve professional standards and to develop personality of students.
- Many higher studies awareness sessions motivated students for pursuing higher studies. Many students successfully got admitted for higher studies in India and abroad.
- Welfare schemes are carried out like Scholarship for Students, Special Guidance Scheme, Prerana - Personality Development Program for Girls, Entrepreneurship Awareness Camp for Students, Anti-Tobacco Campaign for students and faculty and Karmveer Bhourao Patil Earn & Learn Scheme for the students.
- To promote cultural activities and provide platform to students to display their talents, we organized more than 30 events and activities wherein 748 students participated.
- Institute has always promoted students to participate in National and State Level Sports and to organize various sports events in campus.

Problems Encountered and Resources Required:

- Scheduling few courses and activities in vacation decreases the availability of students,
- Planning of activities may not get executed in scheduled date due to change in university examination schedule.

Best Practice 2

Title : Project Based Learning (PBL)

Goal : To improve the ability to apply theory to practice and vice versa. Main goal of PBL is to improve the skills of the students during learning process. Aim of PBL is to provide a platform for students to identify the problems in the society, and provide the solution in terms of software development. This also serves the purpose of developing competency of students to solve engineering problems.

The context : Students find it difficult to learn only from theoretical subjects. The best way to master any subject or to get a deeper understanding of it is by having

hands-on practical experience.

SPPU Curriculum includes mini project based on various technologies in first five semesters, which will help students to apply technical knowledge during project development. In order to keep students in pace with current and latest development trends, various industry internship project were undertaken by students.

Therefore PBL helps students to integrate small modules by creating mini-projects during the semester. The faculty members should be able to identify mini-projects for their subjects. In this group projects are done by students on using advanced technologies and methods.

The Practice : Mostly second year and third year students are involved in development of project/ software as a part of PBL. Faculty allocates various topics related to the subject to a group and a presentation is made in front of whole class.

Every department provides a platform for students to participate in various project development competitions to expose their innovative ideas.

- Competition at PCCOE: The institute arrange following project development competition like TechnoQuest, Innovia where students can demonstrate implementation of their innovative ideas.
- Competition at other colleges: Students are encouraged to participate in project competition like Technocase at IICMR, Avishkar
- Best projects are identified at each department. Shortlist projects are screened at Institute level to nominate for Avishkar- University Level project competitions.

The faculty helps students in problem formulation, feasibility of projects, through discussions in the department, resources required, establishing the methodology, analysis of results, resulting in comprehensive learning through project work, undertaken by students.

Evidence of Success :

The number of internship project undertaken by students in reputed organization has been increased in last few years. This leads to increase project development in current technology. Students also won number project competition in various colleges.

The research ideas identified through project based learning have lead to production of research papers. The project based learning has enabled UG students to work with ME students.

The leaning has enables them to participate in several competitions at University and state level. PBL shows improvement in understanding and confidence about core concepts among students. It also helps in achieving skills required for the professional practice.

Various android apps developed by students as projects are available on Google App Store with good ranking. SAE SUPRA team won 5 awards in various

project competitions.

Problems Encountered and Resources Required: Limited time period is available for the students due to on-line, in-semester examination of the University. The project based learning increases academic load on the faculty.

As a part of internship difficulties are faced when some of the students do not get project work or sufficient work to fulfill the curriculum needs.

To overcome this difficulty department provides some in-house project to such students which fulfill curriculum needs.

Contact details:

| | |
|-------------------------|---|
| Name of the Principal | : Dr. A. M. Fulambarkar |
| Name of the institution | : Pimpri Chinchwad College of Engineering |
| City | : Pune |
| Pin code | : 411 044 |
| Accreditation Status | : Accredited by National Board of Accreditation (NBA) |
| Work phone | : 020 – 2765 3168 |
| Fax | : 020 – |
| Mobile | : 09226094801 |
| Website | : http://www.pccoepune.com/ |
| Email | : fajay@rediffmail.com |



DEPARTMENT EVALUATION REPORTS

Evaluative Report of Mechanical Engineering Department

- 1 **Name of the department** : Mechanical Engineering
- 2 **Year of Establishment** : 2000
- 3 **Names of Programmes / Courses offered** : Bachelor of Mechanical Engineering
 (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)
 : Master of Mechanical Engineering with Specializations
 1) Design Engineering
 2) Heat Power Engineering

4. Names of Interdisciplinary courses and the departments / units involved

| Sr. No. | Department Name | Subject Offered |
|---------|------------------------|--|
| 1 | First Year Engineering | Engineering Mathematics III |
| 2 | First Year Engineering | Advanced Mathematics and Numerical Methods |
| 3 | Mechanical | Mechatronics |
| 4 | ME Mechanical | Mechanical Measurement and Control |

5. Annual/ semester/choice based credit system (programme wise):

UG:

- Credit system is being proposed from 2015-16 by SPPU, Pune
- Annual based results are declared although semester based examination system is in place as prescribed by SPPU, Pune

PG:- Credit system

6. Participation of the department in the courses offered by other departments

| Sr. No. | Department Name | Subject Offered |
|---------|-------------------------------------|--------------------------------|
| 1 | First Year Engineering | Engineering Graphics-I & II |
| | | Basic Mechanical Engineering |
| | | Workshop Practices |
| 2 | Electronics & Telecomm. Engineering | Robotics |
| | | Automotive Electronics |
| 3 | Civil Engineering | System Approach in Civil Engg. |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

| Sr. No. | Name of University / Industry/ Institute | Courses / Programs Offered |
|---------|--|---|
| 1 | Forbes Marshall | Steam Engineering & Energy Conservation |
| 2 | Sapience & Siemens | NX CAD Training |
| 3 | KPIT | Induction Training |
| 4 | CIPET | CATIA |

| | | |
|----|---------------------------------|---|
| 5 | Aditya Birla | Innovation |
| 6 | IIT Mumbai Solar | Solar Technology |
| 7 | NID, Ahmdabad | New Product Development |
| 8 | Innovation Foundation | Innovation in Engineering |
| 9 | VNIT, Nagpur- | Appropriate Technology |
| 10 | Apart Academy | Aptitude Training |
| 11 | Imperial Institute | GATE |
| 12 | SMC Pneumatics Pvt Ltd. | Low Cost Automation |
| 13 | Marsh Consultancy of Excellence | ADAMS |
| 14 | Mantra CAD/CAM Solutions | CFD |
| 15 | NDT Lab | Hands on Training Destructive and Non Destructive Testing |
| 16 | Hypermesh training | Design Tech Solutions Pvt. Ltd. |

8. Details of courses/programmes discontinued (if any) with reasons

NA.

9. Number of Teaching posts

| Title | Sanctioned | Filled |
|----------------------------|------------|--------|
| Professor | 06 | 05 |
| Associate Professor | 10 | 06 |
| Assistant Professor | 38 | 34 |
| Adjunct Faculty | 04 | 04 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

| Sr. No. | Faculty Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of ME/PhD students guided for the last 4 years |
|---------|-------------------|---------------|------------------------|------------------------------------|----------------------------|--|
| 1 | Dr. P.J. Awasare | PhD Engg | Professor and Head | Design Engineering | 36 | 8 |
| 2 | Dr. S. S. Lakade | Ph.D. Engg | Professor and Dean R&D | Production Engg. | 27 | 10 |
| 3 | Dr. N.R. Deore | PhD Engg | Professor | Aerospace, CFD | 16 | 14 |
| 4 | Dr. H.U. Tiwari | PhD Engg | Professor | Refrigeration and Air Conditioning | 20 | 9 |
| 5 | Dr. P.A. Deshmukh | PhD Engg | Professor | Heat Transfer | 20 | 10 |
| 6 | Dr. Anindita Roy | PhD Engg | Associate Professor | Renewable Energy | 13 | 7 |

| | | | | | | |
|----|----------------------|----------------------|----------------------|-------------------------------|------|----|
| 7 | S. K. Bhoite | ME PhD Pursuing | Associate Professor | Metallurgy | 16 | 9 |
| 8 | A.A. Panchwadkar | ME PhD Pursuing | Associate Professor | Design Engg | 19.5 | 11 |
| 9 | L. V. Awadhani | M Tech PhD Pursuing | Associate Professor, | Design Engg | 19 | 12 |
| 10 | S. B. Matekar | ME & PhD Pursuing | Associate Professor | Design Engg | 14 | 9 |
| 11 | Sanjay P. Salve | ME & PhD Pursuing | Associate Professor | Heat Power | 14 | 9 |
| 12 | N. Vivekanandan | M Tech PhD pursuing | Assistant Professor, | Industrial Safety Engineering | 16 | 8 |
| 13 | Ummid I. Shaikh | M Tech PhD pursuing | Assistant Professor, | Thermal & Fluids Engg. | 16 | 2 |
| 14 | C. L.Ladekar | ME & PhD Pursuing | Assistant Professor, | Thermal | 12.5 | 3 |
| 15 | S. R. Wankhede | ME | Assistant Professor, | CAD CAM | 11 | - |
| 16 | U. G. Potdar | ME & PhD Pursuing | Assistant Professor, | Heat Power | 9.3 | 4 |
| 17 | V. K.Aher | ME | Assistant Professor, | Automotive | 12 | - |
| 18 | Mrs. R. S. Pimpalkar | ME | Assistant Professor, | Design Engg | 7.5 | - |
| 19 | Mrs. S.V.Patil | ME | Assistant Professor, | Heat Power | 9.6 | - |
| 20 | A. N. Kore | MTech | Assistant Professor, | Heat Power Engg | 8 | - |
| 21 | Mrs. V. Y. Gayakhe | ME | Assistant Professor, | Manufacturing | 4.6 | - |
| 22 | Mrs. J. P.Wagh | ME | Assistant Professor, | Design Engg | 10.5 | - |
| 23 | A. V. Suryavanshi | M Tech | Assistant Professor, | Heat Power | 6 | - |
| 24 | Mrs. N. A. Mandhare | ME& PhD Pursuing | Assistant Professor, | Heat Power | 10.5 | - |
| 25 | Rahul A. Gujar | ME & PhD Pursuing | Assistant Professor, | Design Engg | 9.5 | - |
| 26 | Mrs. G. V. Phadatare | ME | Assistant Professor, | Heat Power | 11 | - |
| 27 | D. A. Wagholikar | MTech & PhD Pursuing | Assistant Professor, | Energy | 33 | - |
| 28 | Nilesh V. | MTech | Assistant | Heat Power | 4.5 | - |

| | | | | | | |
|------------------------|---------------------|------------------|----------------------|--------------------------------------|------|---|
| | Gaikwad | | Professor, | Engineering | | |
| 29 | J. D. Ganeshkar | ME | Assistant Professor, | CAD/CAM | 7.5 | - |
| 30 | Vishal R. Shingare | M Tech | Assistant Professor, | Turbo Machines | 3 | - |
| 31 | Gaffer G. Momin | ME, PhD Pursuing | Assistant Professor, | Heat Power | 24 | - |
| 32 | C.R. Ingole | M Tech | Assistant Professor, | Production | 4.5 | - |
| 33 | Ishan R. Sathone | M Tech | Assistant Professor, | CAD/CAM | 4.5 | - |
| 34 | D. P. Kute | M Tech | Assistant Professor, | Design Engg | 8.5 | - |
| 35 | Ganesh D. Kale | M Tech | Assistant Professor, | CIM | 5 | - |
| 36 | Mrs. V. Y. Bhalerao | ME | Assistant Professor, | Design Engg | 8 | - |
| 37 | V.U. Garud | M Tech | Assistant Professor, | Automotive Materials & manufacturing | 3.5 | - |
| 38 | S.S. More | ME | Assistant Professor | Design Engg | 5.5 | - |
| 39 | G.S. Lohar | ME PhD Pursuing | Assistant Professor | Metallurgy | 2.5 | - |
| 40 | P.G. Anjankar | ME | Assistant Professor | Thermal Engineering | 6.5 | - |
| 41 | M.V. Patil | ME | Assistant Professor | Design Engg | 15.5 | - |
| 42 | A.S. Kashid | M Tech | Assistant Professor | CAD/CAM | 3.2 | - |
| 43 | N.S. Thakare | M Tech | Assistant Professor | Design Engg | 3 | - |
| 44 | N.J. Surwade | ME | Assistant Professor | Advanced Mfg and Mech. System Design | 1.5 | - |
| 45 | S.S. Shinde | ME | Assistant Professor | Design Engg | 2.5 | - |
| Adjunct Faculty | | | | | | |
| 1 | Mr. Raghu Nair | | ME | Steam Engineering | | |
| 2 | Mr. S.D. Kshirsagar | | ME | Thermal Engineering | | |
| 3 | Mr. Katti S.M. | | ME | Production Engg | | |
| 4 | Mr. Sanjay Kangle | | ME | Design Engineering | | |
| 5 | Mr. Sanjeev Shinde | | BE | Production Engineering | | |

11. List of senior visiting faculty

| Sr. No. | Academician / Industry Person | Designation | Industry/ Institute |
|---------|-------------------------------|------------------------------------|--|
| 1. | Prof. L.S. Utpat | Design Manager | TATA Motors, Pune. |
| 2. | Dr. Dilip Patil | Expert faculty for Stress Analysis | Faculty of Technology, SPPU, Pune |
| 3. | Prof. S. B. Kedare | Expert faculty | IIT Bombay, Mumbai |
| 4. | Dr. P.M. Ghanegaonkar | Professor | DYPIET, Pune |
| 5. | Dr. S.D. Deshmukh | Professor | SAE Kondhwa, Pune. |
| 6. | Dr. S.S. Gogate | Professor | VIT, Pune. |
| 7. | Dr. Hitendra Patel | Expert faculty for FEA Lecture | Phillips India, Pune. |
| 8. | Dr. Gautam Chandekar | Professor | CCOEW, Pune |
| 9. | Prof. P.V. Mandake | Professor | COEP, Pune |
| 10. | Dr. A. T. Pise | Professor | COE Karad |
| 11. | Mr. Mugali | Director BIS Pune | BIS, Pune |
| 12. | Mr. Parag Kshirsagar | Expert faculty | TATA Elexi Vimamagar, Pune |
| 13. | Dr. Bapat | Professor | IIT, Mumbai |
| 14. | Mr. Raghu Nair | Adjunct Faculty | Forbes Marshall, Pune |
| 15. | Mr. Kshirsagar | Adjunct Faculty | Thermax Ltd. Pune |
| 16. | Mr. Katti S.M. | Adjunct Faculty | Aditya Birla Group, Pune |
| 17. | Mr. Sanjay Kange | Adjunct Faculty | SKF, Pune |
| 18. | Mr. Sanjeev Shinde | Adjunct Faculty | Forbes Marshall, Pune |
| 19. | Kachare | Professor | MITSD, Pune |
| 20. | Dr. Praveen Rajpal | CEO | Innovation foundation, New Delhi |
| 21. | Mr. Kedar Tulsulkar | Expert faculty | M/s. Optimum Instruments Pvt. Ltd., Pune |
| 22. | Mr. Anand Mahurkar | Sr. Associate | Krishna Saurashtri Associates of Pune |
| 23. | Mr. Sachin Adlinge | Expert faculty | SKF, Pune |
| 24. | Dr. Padole P. M. | Professor & Dean (Faculty Welfare) | VNIT Nagpur, Recipient of Best S & T Innovation Award for KVIC |
| 25. | Dr. K. K. Ghosh | Associate Professor | College of Military Engineering, Dapodi, Pune |
| 26. | Mr. Patki | Expert faculty | DRDO, Pune |
| 27. | Mr. Alok Awasare | Design Engineer | Mahale Behr India, Pune |
| 28. | Dr. R. K. Goyal | Professor | COEP, Pune |
| 29. | Mr. Sachin Bendre | Expert faculty | HR, Mercedes Benz, Pune |
| 30. | Mr. S. G. Sangamnerkar | Expert faculty | Urja Disha Boiler Technologies, Pune |
| 31. | Mr. Abhishek Khare | Expert faculty | Aircraft design and stability with Pilatus Aircraft Ltd., |

| | | | |
|-----|------------------------|-----------------------|--|
| | | | Switzerland |
| 32. | Dr. Dineshkumar Thakur | Associate Professor | Defense Institute of Advanced Technology, DIAT, Pune |
| 33. | Dr. N. K. Sane | Professor | Walchand College of Engineering Sangli |
| 34. | Mr. David P. Kumar | Senior Manager, | Greaves Cotton Limited, Chinchwad, Pune |
| 35. | Mr. Xavier | Global head Academics | Dassault System, France |
| 36. | Dr. Subhash Deshmukh | Professor | WIT Solapur |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Department do not have any temporary faculty for delivering practical and theory classes. Whereas, the following PG students are given teaching assistance ship and assist the respective faculty.

| Sr. No. | Name of Teaching Assistant | Sem-I | Sem-II |
|---------|----------------------------|-------|--------|
| 1 | U.S. Bawaskar | 0 | 6 Hrs |
| 2 | R.U. Gavali | 0 | 6 Hrs |
| 3 | P.V. Kalaskar | 0 | 6 Hrs |
| 4 | D.H. Bhosale | 0 | 6 Hrs |
| 5 | O.S. Dhumal | 0 | 4 Hrs |
| 6 | Ms. S. S. Thorat | 0 | 4 Hrs |

13. Student -Teacher Ratio (programme wise)

| Year | UG Strength | UG Faculty | STR | PG Strength | PG Faculty | STR |
|---------|-------------|------------|-------|-------------|------------|------|
| 2015-16 | 720 | 44 | 16.36 | 72 | 6 | 12 |
| 2016-17 | 660 | 44 | 15.34 | 53 | 6 | 8.83 |

| Program | Student Ration |
|----------------|----------------|
| Under Graduate | 15.34 |
| Post Graduate | 8.83 |

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

| Title | Sanctioned | Filled |
|----------------------|------------|--------|
| Laboratory Assistant | 09 | 09 |
| Workshop Instructor | 05 | 05 |
| Clerk | 01 | 01 |
| Laboratory Attendant | 07 | 07 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| Qualification | Number of Teaching Faculty |
|---------------|--------------------------------------|
| PhD | 06 + 13 faculty members pursuing PhD |
| ME / MTech | 39 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

| Funding Agency | Number of Projects |
|------------------|--------------------|
| a) National | 03 |
| b) International | -- |
| c) BCUD | 03 |
| d) Industry | 03 |

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

| Funding Agency | Number of Projects | Total Grants Received |
|-------------------|--------------------|-----------------------|
| DST (TIFAC) | 01 | 13 Lakhs |
| UGC | -- | -- |
| AICTE | 01 | 9.5 Lakhs |
| BCUD | 08 | 12.1 Lakhs |
| Industry (3D PLM) | 01 | 11 Lakhs |

| Sr. No. | Academic Year | Faculty Name | Title of the Project | Funding Agency | Grants Received |
|---------|---------------|---|--|----------------|-----------------|
| 1 | 2016-18 | Dr. Mrs. A. Roy | Design and Development of 2 kW wind-battery hybrid system | BCUD | 2,20,000 |
| 2 | 2016-18 | S.P. Salve | Design and development of low cost solar air dryer using phase change material | BCUD | 1,40,000 |
| 3 | 2015-17 | U. G. Potdar | Experimental study of lifted spray flame | BCUD | 85,000 |
| 4 | 2015-16 | Dr. S.S. Lakade S.B. Matekar R.A. Gujar | Establishing Product Innovation Lab | 3DPLM | 11,00,000 |
| 5 | 2015-16 | Dr. S.S. Lakade Dr. N.R. Deore A.A. Panchwadkar | TIFAC | DST | 13,00,000 |
| 6 | 2013-15 | Dr. N.R. Deore | Experimental studies on propagation of premixed flame in diverging meso-scale channels | BCUD | 1,50,000 |

| | | | | | |
|----|---------|---|---|-------|----------|
| 7 | 2013-15 | C.L. Ladekar | Experimental investigation for enhancing of latent heat energy storage using embedded heat pipe | BCUD | 1,90,000 |
| 8 | 2012-14 | U.I. Shaikh U.G. Potdar | Experimental investigation of two phase NCL with end heat exchangers | BCUD | 1,75,000 |
| 9 | 2011-12 | S.K. Bhoite L.V. Awadhani A.A. Panchwadkar | Modernization of Vibration Lab | AICTE | 9,50,000 |
| 10 | 2007-09 | H.U.Tiwari | Cooling of Truck Cabin using engine exhaust | BCUD | 1,50,000 |
| 11 | 2007-09 | A.A. Panchwadkar | CAE of interacting surfaces. | BCUD | 1,00,000 |

18. Research Centre /facility recognized by the University

Applied. The Local Inspection Committee visited and assessed the department research Centre. Result is awaited.

19. Publications:

a) Total Publications:

| Acad Year | International Publication by students | | International Publication by Faculty | | Total |
|-----------|---------------------------------------|------------|--------------------------------------|------------|-------|
| | Journal | Conference | Journal | Conference | |
| 2012-13 | -- | -- | 08 | 07 | 15 |
| 2013-14 | 04 | -- | 25 | 13 | 42 |
| 2014-15 | 07 | 02 | 19 | 06 | 34 |
| 2015-16 | 02 | -- | 28 | 17 | 47 |
| 2016-17 | -- | -- | 02 | 04 | 06 |
| | | | | | 144 |

b) Publication per faculty

| Sr. No | Name of Faculty | Google Scholar | Scopus | Total No. of Publication Listed in international database. | No of citations | h-index |
|--------|------------------|----------------|--------|--|-----------------|---------|
| 1 | Dr. P.J. Awasare | 21 | 10 | 31 | 104 | 2 |
| 2 | Dr. S. S. Lakade | - | - | - | - | - |
| 3 | Dr. N.R. Deore | 11 | - | 11 | - | 1 |

| | | | | | | |
|----|-------------------|----|----|----|-----|---|
| 4 | Dr. H.U. Tiwari | - | - | - | - | - |
| 5 | Dr. P.A. Deshmukh | 07 | 05 | 07 | 26 | 2 |
| 6 | Dr. Anindita Roy | - | 10 | 10 | 103 | 3 |
| 7 | S. K. Bhoite | 4 | - | 4 | 2 | 1 |
| 8 | A.A. Panchwadkar | 1 | - | 1 | 0 | 0 |
| 9 | L. V. Awadhani | 6 | - | 6 | 0 | 0 |
| 10 | S. B. Matekar | 3 | - | 3 | 42 | 2 |
| 11 | N. Vivekanandan | 4 | - | 4 | 6 | 1 |
| 12 | Ummid I. Shaikh | 3 | - | 3 | 0 | 0 |
| 13 | U. G. Potdar | 8 | - | 8 | 6 | 1 |
| 14 | V. K.Aher | - | - | - | - | - |
| 15 | Mrs. J. P.Wagh | 2 | - | 2 | 0 | - |
| 16 | Rahul A. Gujar | 4 | - | 4 | 16 | 2 |
| 17 | Nilesh V. Gaikwad | 3 | - | 3 | - | - |
| 18 | J. D. Ganeshkar | 3 | - | 3 | 0 | 0 |
| 19 | V.U. Garud | 13 | 1 | 13 | 24 | 3 |
| 20 | P.G. Anjankar | 1 | - | - | 7 | 1 |
| 21 | M.V. Patil | 1 | 1 | 1 | 2 | 1 |
| 22 | S.S. Shinde | 3 | - | 3 | 2 | 1 |

- Number of papers published in peer reviewed journals (national / international) by faculty and students**

Total no. of National Journals : 01

Total no. of International Journals : 89

Total no. of National Conferences : --

Total no. of International Conferences: 45

| Acad Year | National Publication | | International Publication | | Total |
|-----------|----------------------|------------|---------------------------|------------|-------|
| | Journal | Conference | Journal | Conference | |
| 2016-17 | 00 | 00 | 16 | 07 | 23 |
| 2015-16 | 00 | 00 | 28 | 17 | 45 |
| 2014-15 | 00 | 00 | 19 | 06 | 25 |
| 2013-14 | 01 | 00 | 26 | 15 | 41 |
| | | | | | 134 |

- Books with ISBN/ISSN numbers with details of publishers**

| Acad Year | Title of Book | Author(s) | Publisher details | ISBN/ ISSN |
|-----------|-------------------------------|---------------|-------------------|------------------------|
| 2015-16 | Design of Machine Elements I | L.V. Awadhani | Nirali Prakashan | ISBN 978-93-5164-130-8 |
| 2014-15 | Design of Machine Elements II | L.V. Awadhani | Nirali Prakashan | ISBN 978-93-5164-357-9 |

| | | | | |
|---------|--|---------------|---|-----------------------------|
| 2014-15 | Hydraulics and Pneumatics | G.G. Momin | Techmax Publication | ISBN 978-93-5077-651-3 |
| 2014-15 | Automobile Engineering(Second Revised Edition) | G.G. Momin | Techmax Publication | ISBN 978-93-5077-355-0 |
| 2014-15 | Automotive Electrical and Electronic systems | G.G. Momin | Techmax Publication | ISBN 978-93-5077-905-7 |
| 2014-15 | Transport Management | G.G. Momin | Techmax Publication | ISBN 978-93-5077-897-5 |
| 2014-15 | Vehicle System Maintenance | G.G. Momin | Techmax Publication | ISBN 978-93-5077-877-7 |
| 2014-15 | Operations Research | S.R. Wankhede | Technical Publications | 978-93-332-0444-6 |
| 2013-14 | Analytical and experimental analysis of Inertia Dynamometer” | R.A. Gujar | By Lambert Academic Publication Germany | ISBN No. 978-3-659-48944-0. |
| 2013-14 | Automobile Engineering | G.G. Momin | Techmax Publication | ISBN 978-93-5077-355-0 |
| 2012-13 | Computer Oriented Numerical Methods | S.B. Matekar | Nishant Prakashan | -- |

20. Areas of consultancy and income generated

| Sr. No. | | Details | Organization | Revenue generated |
|---------|--|---|-----------------------------------|-------------------|
| 1 | Dr. Anindita Roy Mr.A.R.Suryawanshi | Conducted Collaborative training Programme | K Watt Solutions Pvt Ltd. | 11,880/- |
| 2 | D.A. Waghlikar | Conducted a course on GD&T for students | Mechtol Solutions | 7500/- |
| 3 | A.A. Panchwadkar | Determination of stress distribution using Polariscope | AISSMS | -- |
| 4 | L.V. Awadhani | Providing a contact stress calculator | HEXCAM | -- |
| 5 | L.V. Awadhani | Spring back studies for redesign of a bar bending machine | SME | -- |
| 6 | A.A. Panchwadkar | Determination of Mass moment of inertia | Dukati Energia Pvt Ltd. Chinchwad | -- |
| 7 | A.A. Panchwadkar | Determination of fatigue life of fuel tank using Electro-dynamic shaker | NB Technologies | -- |

21. Faculty as members in

a) National committees :

| Sr. No. | Name of the Faculty | Committee | Designation |
|---------|----------------------|-------------------------------|-------------------------|
| 1. | Dr. A.M. Fulambarkar | Quality Circle Forum of India | Secretary, Pune Chapter |

| | | | |
|-----|------------------|---|---------------------------------------|
| 2. | | Board of College and university Development SPPU | Member |
| 3. | | Board of Studies, CCOEW, Pune | Member |
| 4. | | Zeal College of Engineering and Research, Pune | SPPU representative on Governing body |
| 5. | Dr. P.J. Awasare | Board of Studies Mechanical SPPU | Coordinator |
| 6. | | BOS and Faculty , University of Mumbai | Member |
| 7. | | BOS Mechanical and Automation Shivaji University, Kolhapur | Member |
| 8. | | Advisory Board, VIT, VIIT, WIT | Member |
| 9. | Dr. N.R. Deore | Member Technical Committee SPPU | Member |
| 10. | Dr. S.S. Lakade | Keynote Speaker for National Conference on Innovations in Engg and Management | Keynote Speaker |
| 1. | N. Vivekanandan | QCFI | Member |
| 2. | L.V. Awadhani | AMM, ISTE, QCFI | Member |
| 3. | A.A. Panchwadkar | QCFI | Member |
| 4. | S.K. Bhoite | ISTE | Member |
| 5. | U.I. Shaikh | ISTE, SAE | Member |
| 6. | S.P. Salve | ISTE | Member |
| 7. | U.G. Potdar | ISHMT | Member |
| 8. | N. V. Gaikwad | SAE | Member |
| 9. | S.R. Wankhede | ISTE | Member |
| 10. | Vikrant Garud | SAE | Member |
| 11. | Vikrant Garud | IJETAE | Editorial Board Member |
| 12. | M. V. Patil | IJME, MMMS (Scopus Indexed) | Reviewer |

b) International Committees : Nil

| Sr. No. | Name of the Faculty | Committee | Designation |
|---------|---------------------|-----------|-------------|
| 1 | M. V. Patil | IQF | Member |

c) Editorial Boards :

| Sr. No. | Name of the Faculty | Editorial Boards | Journal |
|---------|---------------------|------------------|--------------------------------|
| 1 | Dr.N.R.Deore | Reviewer | Taylor & Francis online |
| 2 | Dr. Anindita Roy | Reviewer | CTEP, Springer & ESD, Elsevier |
| 3 | Mr.V.U. Garud | Member | IJETAE |

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme

| Acad Year | No. of In house projects | In House Projects (%) |
|-----------|--------------------------|-----------------------|
|-----------|--------------------------|-----------------------|

| | | Department | Interdisciplinary |
|---------|----|------------|-------------------|
| 2015-16 | 46 | 82.61 | 17.39 |
| 2014-15 | 27 | 88.88 | 12.12 |
| 2013-14 | 27 | 74.07 | 22.23 |
| 2012-13 | 23 | 100 | Nil |

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies

| Acad Year | Outside Institute Projects (%) | | |
|-----------|--------------------------------|---------------------|--------|
| | Industry | Research Laboratory | Others |
| 2015-16 | 28.98 | -- | -- |
| 2014-15 | 46.15 | -- | -- |
| 2013-14 | 64.10 | -- | -- |
| 2012-13 | 44.11 | -- | -- |

23. Awards / Recognitions received by faculty and students

| Sr. No. | Name of Faculty / Student | Awards / Recognition | Academic Year | Institute / Organization |
|---------|---------------------------|---|---------------|----------------------------------|
| 1. | Team RED Barron | Endurance, Acceleration, Overall second rank, Mountain rider Second place, Night rider- First place, Drag Race- First place, Suspension event- Second place. | 2016-17 | Mega ATV |
| 2. | Mr. Yash Dahake | 1 st Prize as Project of the year 2016 organized by Dassault systems , France | 2016-17 | Dassault systems , France |
| 3. | Team Supra | Overall Winner of SAE SUPRA 2016 | 2016-17 | SAEIND IA |
| | | SAE SUPRA-Autocross | 2016-17 | SAEIND IA |
| | | SAE SUPRA-Endurance | 2016-17 | SAEIND IA |
| | | SAE SUPRA-Economy | 2016-17 | SAEIND IA |
| | | SAE SUPRA-Skid Pad | 2016-17 | SAEIND IA |
| 4. | Team RED Barron | Overall Second place, First place in Design, Second place in cost and Second in Endurance. | 2016-17 | Enduro Student India Competition |
| 5. | Chaudar Vaibhav | Received Young Innovator Award | 2016-17 | Zee 24 |

| | | | | |
|-----|---|---|---------|-----------------------------|
| | Madge Kiran Ms. Chorage Tejaswini | at the hands of Hon. Governer Maharashtra in presence of Chief Minister Maharashtra for the innovation Linear and Angular Scale measuring Compass | | Taas |
| 6. | Kunal Patil Shubham Mohite | Won the Fist place in AVISHKAR 2016 Zonal competition of SPPU | 2016-17 | SPPU |
| 7. | A.V. Suryawanshi N.V. Gaikwad | SAE SUPRA-Dronacharya Award | 2016-17 | SAEIND IA |
| 8. | Dr. P.J.Awasare Dr. N.R. Deore Dr. P.A. Deshmukh S.K. Bhoite N.Vivekanandan A.A. Panchwadkar L.V. Awadhani S.P. Salve C.L.Ladekar V.U. Garud | Certified Internal Auditor ISO 9001:2015 | 2016-17 | Shree Consulta nts |
| 9. | Quality Circle team Avirath | CCQC – 15 Gold Award | 2015-16 | QCFI Pune |
| 10. | Quality Circle team Avirath | NCQC – 15 Excellence Award at Chennai | 2015-16 | QCFI Chennai |
| 11. | Quality Circle Team Elite | Best QC in Academics Award at CCOC 2014 Excellence Award at NCQC 2014 | 2014-15 | QCFI |
| 12. | Quality Circle Team Mechatronics | Silver Award at CCQC 2014 Excellence Award at NCQC 2014 | 2014-15 | QCFI |
| 13. | Quality Circle Team Sunshine | Gold Award at CCQC 2014 Excellence Award at NCQC 2014 | 2014-15 | QCFI |
| 14. | Quality Circle Team Elite | Gold Award at CCQC 2013Distinguished Performance Award at NCQC 2013 | 2013-14 | QCFI |
| 15. | SAE BAJA Team | Best Design Award | 2014-15 | SAE INDIA |
| 16. | SAE BAJA Team Red Baron | Second prize in Technology Innovation Category for use of Composite Material in Steering System | 2015-16 | SAE INDIA |
| 17. | Gangane Akash Gundawar Parimal Rajai Nilkanth Patil Yashodeep | Project Competition, 1 st Prize | 2014-15 | Pccoe, Mechfest 2015. |
| 18. | Joshi Tejas Gadhawe Jayesh Chaudhary Suresh | Project Competition, 2 nd Prize | 2014-15 | Pccoe, Mechfest 2015. |

| | | | | |
|-----|---|---|---------|----------------------------------|
| | Mohite Priyanka | | | |
| 19. | Oval Prasad Tapkir Swapnil Yadav Ashish VakhariyaSankalp | Project Competition, 3 rd Prize | 2014-15 | Pccoe, Mechfest 2015. |
| 20. | Mishra Niranjana PatilJayesh Kelvin Roshan | Mini Project Competition, 1 st Rank | 2014-15 | Pccoe, Mechfest 2015. |
| 21. | Shikhre Chaitanya | Paper Presentation 1 st Rank | 2014-15 | Pccoe, Mechfest 2015. |
| 22. | More ShubhamBankar Prasad | Paper Presentation 2 nd Rank | 2014-15 | Pccoe, Mechfest 2015. |
| 23. | Ranpise Prasad Dilip | Paper Presentation, 3 rd Rank | 2014-15 | Pccoe, Mechfest 2015. |
| 24. | Dubey Mehulkumar | Paper Presentation, Consolation Prize | 2014-15 | Pccoe, Mechfest 2015. |
| 25. | Patankar Aditya | Paper Presentation, Consolation Prize | 2014-15 | Pccoe, Mechfest 2015. |
| 26. | PawarDurgesh | 3D Modeling 1 st Rank | 2014-15 | Pccoe, Mechfest 2015. |
| 27. | RansingShridhar | 3D Modeling 2 nd Rank | 2014-15 | Pccoe, Mechfest 2015. |
| 28. | PatilVivek | 3D Modeling 3 rd Rank | 2014-15 | Pccoe, Mechfest 2015. |
| 29. | Ms. Kulkarni Manjiri And Ms. Landge Meeta | Poster Making, 1 st Rank | 2014-15 | PCCOE, Mechfest 2015. |
| 30. | Bhujbal Ganesh | Poster Making, 2 nd Rank | 2014-15 | Pccoe, Mechfest 2015. |
| 31. | NinadGaidhani | (Mock Placement) Tantrotsav 2015, 2nd Rank | 2014-15 | DY Patil Coe |
| 32. | Sanket Kothawade | Papyrus Mélange 2015, 1 st Rank | 2014-15 | VIT Pune |
| 33. | Shubham More | Texephyr 15 Paper Presentation, 1 st Rank | 2014-15 | MIT, Pune &Kbp, Satara. |
| 34. | Kumar Kale, | Students Participation In | 2014-15 | QCFI |

| | | | | |
|-----|--|---|---------|--|
| | Mahadeo Devkate, Shital Kolekar, M.Mahanawara and Rohan Hatti | 29 th Annual Chapter Convention CCQC2014 On Quality Circle Allied Concepts, Best QC In Academics | | |
| 35. | Kumar Kale, M. Devkate, S. Kolekar, M. Mahanawara & Rohan Hatti | Students Participation In 28 th National Convention On Quality Concepts December 2014, Excellent Awards | 2014-15 | QCFI |
| 36. | Sachin Shelke, Rushikesh Sawant, Malleshwar Swami, Rahul Wagh, Altaf Shaikh & S.Tekale | Students Participation In 29 th Annual Chapter Convention CCQC 2014 On Quality Circle Allied Concepts (Students List Available Separately) Gold Award | 2014-15 | QCFI |
| 37. | SachinShelke, R. Sawant, M.Swami, Rahul Wagh, Altaf Shaikh & S. Tekale | Students Participation In 28 th National Convention On Quality Concepts December 2014, Excellent Award | 2014-15 | Pune |
| 38. | SanketNashikkar, Shubham More, Saquib Bagwan, Akshay Ramshettay & N. Kulkarni | Students Participation In 29 th Annual Chapter Convention CCQC2014 On Quality Circle Allied Concepts, Silver Award | 2014-15 | Kolkata |
| 39. | SanketNashikkar, Shubham More, Saquib Bagwan, Akshay Ramshettay & N. Kulkarni | Students Participation In 28 th National Convention On Quality Concepts December 2014, Excellent Award | 2014-15 | Pune |
| 40. | Sagar Dalvi | Presented A Paper In 5 th Bharatiya Chhatra Sansad Organized By MIT School Of Government., Received An Appreciation Letter By MITSOG For Better Implementation of Clean India Campaign | 2014-15 | MITSOG |
| 41. | SAE Supra Team CRATOS (List Of Student Is Available Separately) | Virtual SAE SUPRA2015, Cleared Virtual SAE SUPRA 2015 | 2014-15 | VEL TECH Universit y Chennai |
| 42. | Robocon Team Automation (List Of Student Is Available Separately) | ROBOCON 2015 International Event Held At Balewadi Stadium Pune. Secured 21 st Position In Super League and 5 th Position In League Matches | 2014-15 | MIT pune&Do ordarshan |
| 43. | SAE BAJA Team RedBaron (List Of StudentIs Available | BAJA SAE India2015, 8 th National Level ATV Competition. First Time Completed Endurance | 2014-15 | Pitampur, Indore |

| | | | | |
|-----|---|--|---------|----------------------|
| | Separately) | Test In13 Laps Successfully. | | |
| 44. | Separate Student List Available | Technical Seminar and innovative idea exhibition At ERCTATA Motors, Pimpri, Pune. Appreciated by TATA Motors For Displaying Innovation On The Eve of ERC Technical Seminar | 2014-15 | TATA MOTOR S |
| 45. | Sreejeet Sivaraman | Acunetix2013 | 2013-14 | DYPIET, Pimpri |
| 46. | Vicky Bhandare, Aishwarya Dhamale | Techlilent2014 (Aero modeling), 2 nd rank | 2013-14 | PCCOE Pune |
| 47. | Vipul Atpadkar | Techlilent2014 (Lathe War) 2 nd rank | 2013-14 | PCCOE Pune |
| 48. | Anurag Kadam | Innovision Mini Project, 2 nd Rank | 2013-14 | PCCOE Pune |
| 49. | V. Ingale, D. Gaware, S. Dubey | Innovision Mini Project, 3 rd Rank | 2013-14 | PCCOE Pune |
| 50. | Abhijeet Jangam | Project Competition, 1 st Prize | 2013-14 | PCCOE Pune |
| 51. | Sagar Dhone | Project Competition Techlilent 2014, 2 nd Prize | 2013-14 | PCCOE Pune |
| 52. | Rutuja Joshi | Poster Competition Techlilent 2014, 2 nd Rank | 2013-14 | PCCOE Pune |
| 53. | Shubham More, Ninad Gaidhani | Paper Presentation, Techlilent 2014, 1 st Rank | 2013-14 | PCCOE Pune |
| 54. | Sachin Shelkhe | Quality Circle Presentation, Techlilent 2014, 1 st Rank | 2013-14 | PCCOE Pune |
| 55. | Sagar Pawar | Quality Circle Presentation, Techlilent 2014, 2 nd Rank | 2013-14 | PCCOE Pune |
| 56. | Rutika Khot | Mock Recruitment, Techlilent 2014, 2 nd Rank | 2013-14 | PCCOE Pune |
| 57. | Ninad Gaidhani | Zion 2014, Oracle (Apti and GD) 2 nd Rank | 2013-14 | DYPIET, Pimpri |
| 58. | Gaurav Jadhav | Quality circle Presentation, Techlilent 2014 1 st Prize | 2013-14 | PCCOE Pune |
| 59. | Shaha Akshay, Dhanraj Shinde Prashant Ranpise | Robo Race 1 st Prize | 2013-14 | Avishkar 2014, ICEM, |
| 60. | Shubham More, Ninad Gaidhani | Paper Presentation, Sinhgad Karandak Winner | 2013-14 | Sinhgad Institutes |
| 61. | Shubham More, Ninad Gaidhani | Paper Presentation, 3 rd Prize | 2013-14 | D. Y. Patil Pimpri |
| 62. | Niranjan Ghatkar | Innovision Mini Project Competition 3 rd Rank | 2013-14 | PCCOE |
| 63. | Sagar Dalvi | Presented a paper in 4th Bharatiya Chhatra Sansad organized by MIT | 2013-14 | MIT SOG |

| | | | | |
|-----|---|---|---------|------------------------|
| | | School Of Government. 3 rd Best Paper among 10,000 participants all over ASIA | | |
| 64. | Kumar Kale, M. Devkate, S. Kolekar, M. Mahanawara and Rohan Hatti | Students Participation in 29 th Annual chapter convention CCQC 2014 on quality circle allied concepts, Gold Award | 2013-14 | Pune |
| 65. | K. Kale, M. Devkate, S. Kolekar, Meghraj Mahanawara and Rohan Hatti | Students Participation in 29 th Annual chapter convention CCQC 2014 on quality circle allied concepts, Distinguished Performance | 2013-14 | Kolkata |
| 66. | SAE BAJA Team Red Barron (List of student is available separately) | BAJA SAE India 2015, 7 th National Level ATV competition. Won First Prize of Rs 1 Lakh for best Engineering Design. | 2013-14 | Pitampur, Indore |
| 67. | Robocon Team Automation (List of student is available separately) | ROBOCON 2014 International Event held at Balewadi Stadium Pune, Secured 19 th position among 89 teams by scoring 70 points. | 2013-14 | MIT Pune & Doordarshan |
| 68. | Gaurav Jadhav | Lathe War, Techlight 2014 | 2013-14 | 2nd Rank |

24. List of eminent academicians and scientists / visitors to the department

| Sr. No. | Name of Visitor | Institute / Organization | Activity/ Program | Date |
|----------------|-------------------------|------------------------------|---|------------|
| 2016-17 | | | | |
| 1 | Dr. Virendrakumar Verma | DRDO, Govt. of India | Lecture on opportunities of PG and PhD research in DRDO | 22/02/2017 |
| 2 | Mr. Manoj Joshi | D Y Patil COE, Akurdi | Guest lecture on Introduction of Materials | 19/09/2016 |
| 2 | Dr. S. T. Vagge | Govt. COE, Pune | Guest lecture on Introduction to corrosion and Its Prevention | 23/08/2016 |
| 3 | Mr. Hemant Watve | MD, CEO, Wilo Mather & Platt | Handover ceremony of split type centrifugal pump donated by Wilo Mather & Platt | 10/10/2016 |
| 4 | Mr. Manoj Bafna | Head (Quality & MR), Wilo | Handover ceremony of split type | 10/10/2016 |

| | | | | |
|----------------|------------------------|---|--|---------------------------------------|
| | | Mather & Platt | centrifugal pump donated bt Wilo Mather & Platt | |
| 5 | Mr. Raghunath Kumatkar | Head (Engineering), Wilo Mather & Platt | Handover ceremony of split type centrifugal pump donated bt Wilo Mather & Platt | 10/10/2016 |
| 6 | Mr. Prashant Bhatt | Marsh consultancy of Excellence | Suggestions for improving the Virtual design of BAJA Vehicle | 02/09/2016 |
| 7 | Mr. Ashish Kulkarni, | | Guest lecture on “Product Life cycle & Product Data Management” | 30/9/2016 |
| 8 | Dr. Vijay Patil | Professor E&Tc | “Mechanical Measurement Control” | 10/9/2016, 24/9/2016, 8/10/2016 |
| 2015-16 | | | | |
| 1 | Dr. K. K. Ghosh | Associate Professor College of Military Engineering, Dapodi | Awareness talk on How to become Member of Institution of Engineers India & its Benefits | 21/12/2015 |
| 2 | Mr. Xaviers | Global head Academics Dassault System France | 1. Western Region Certification Center of Dassault Systems will be established in Mechanical Department. 2. 3D PLM Industry is sponsoring our Mechatronics Lab under CSR. | 12/1/ 2016 |
| 3 | Mr. David P. Kumar | Senior Manager, Greaves Cotton Limited, Chinchwad | Guest lecture on Selection of Engine for Gen - Set A and Erection and Commissioning Procedure for DPP | 5/3/2016 |
| 4 | Dr. K. K. Ghosh | Associate Professor College of Military | Guest lecture on Cooling & Heating Load Calculations | 11/3/2016 |

| | | | | |
|----------------|-------------------------------|---|---|------------|
| | | Engineering, Dapodi | | |
| 5 | Dr. Padole P. M. | Professor & Dean (Faculty Welfare)VNIT Nagpur, Recipient of Best S & T Innovation Award for KVIC | Guest lecture on Appropriate Technology for Rural Development | 22/3/2016 |
| 6 | Dr. N. K. Sane | Ex Professor WCE Sangli | Guest lecture on Global Energy Scenario & its challenges. | 29/3/2016 |
| 7 | Dr. Dineshkumar Thakur | Associate Professor Defense Institute of Advanced Technology, DIAT (Deemed University) DRDO, Ministry of Defense Girinagar, Pune | Guest lecture on Precision Manufacturing Today & Tomorrow | 29/3/2016 |
| 8 | Mr. Abhishek Khare | Aircraft design and stability with Pilatus Aircraft Ltd., Switzerland | Guest lecture on Aircraft Design & Stability | 12/04/2016 |
| 9 | Mr. Sachin G. Sangamnerkar | Urja Disha Boiler Technologies | Guest lecture on Potential of Waste Heat Recovery | 14/7/2015 |
| 10 | Mr. Sachin Bendre | HR, Mercedes Benz | Guest lecture on Expectations of Industry from Fresher | 31/7/2015 |
| 11 | Dr. R. K. Goyal | COE, Pune | Guest Lecture on Advance materials | 13/8/2015 |
| 12 | Mr. Patki | | Session on Scope of Testing of Space Hardware | 2/9/2015 |
| 13 | Mr. Alok Awasare | Team Member from Behr India | Session on Future Opportunities in Design Field | 3/9/2015 |
| 2014-15 | | | | |
| 1 | Mr. Arvind Paranjape | Ex Manager TATA POWER | Expert lecture/ Presentation on the subject of Power Plant Engineering | 24/2/2015 |

| | | | | |
|----------------|----------------------|--|---|-----------|
| 2 | Mr. Parag Kshirsagar | TATA Elexi Vimamnagar | Guest Lecture on Applied Thermodynamics | 23/3/2015 |
| 3 | Dr.G. S. Patki | Consultant Gear Engineering | Guest lecture on Gear Engineering | 18/7/2014 |
| 4 | Prof. S. B. Kedare | IIT Bombay | Guest lecture on Solar Thermal Energy System' s | 2/8/2014 |
| 5 | Mr.Sachin Adlinge | SKF, India Pvt. Ltd. | Expert lecture for BE students in PDD field. | 9/9/2014 |
| 6 | Mr. Taizoon Baker | Executive Director, M/s. Baker Gauges India Private Limited , Pune | Expert lecture on Metrology & Quality Control | 3/9/2014 |
| 2013-14 | | | | |
| 1 | Dr. Dilip Patil | Technology SPPU | on Industrial Practice for Stress Analysis | 7/9/2013 |
| 2 | Mr.Kedar Tulsulkar | M/s. Optimum Instruments Pvt. Ltd., Pune | Expert lecture on Energy Audit Instruments | 17/9/213 |
| 3 | Mr. Anand Mahurkar | Sr. Associate of Krishna Saurashtri Associates of Pune | AWARENESS WORKSHOP ON IPR | 5/10/2016 |
| 4 | Dr. G. R Gogate | VIT Pune | on Analysis of Spatial Mechanism | 14/5/2014 |
| 5 | Dr. Hitendra Patel | Phillips India | on Shell and Plate Elements | 12/4/2014 |
| 6 | Dr. Gautam Chandekar | Cummins College of Engineering | Nonlinear Analysis in FEM | 29/3/2014 |
| 2012-13 | | | | |
| 1 | Dr. G. R Gogate | VIT Pune | Expert Lecture on Spatial Mechanisms | 26/4/213 |
| 2 | Prof. P.V Mandke | COEP | Selection of PG Project | 27/4/2013 |
| 3 | Dr. S.Y. Bhawe | Prof Emeritus MIT, Pune | Random Vibrations | 29/4/2013 |

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

| Academic Year | Title of the Seminar/ Conference/ Workshops | Source of Funding |
|---------------|---|-----------------------------|
| 2016-17 | Add on course on Low cost automation | (Self-financed) PCCOE & SMC |

| | | |
|---------|---|--|
| | | Pneumatics India Pvt. Ltd. |
| 2016-17 | Add on course GD & T | (Self financed) Mechtol Solutions |
| 2015-16 | Add on course on ADAMS | (Self-financed)Marsh Consultancy of Excellence |
| 2015-16 | Six days workshop on Automotive Skill Development Programme | (Self-financed) Prigma Edutech Solutions Private Ltd. |
| 2015-16 | Add on course on CATIA V-5 | (Self-financed) conducted by CIPET ,Aurangabad |
| 2015-16 | Add on course on CFD | (Self-financed) conducted by Expertise from Emerson Technologies & Mantra CAD/CAM Solution |
| 2015-16 | Add on course on NX | (Self-financed) conducted by Expertise from Siemen & Sepience solution |
| 2014-15 | National Seminar on New Product Development | SPPU |
| 2014-15 | NCQC | QCFI |
| 2014-15 | Add on course on CATIA V-5 | (Self-financed) conducted by CIPET, Aurangabad |
| 2013-14 | National seminar on CFD | SPPU |
| 2012-13 | Workshop on CAE tools for SAE BAJA | SAEINDIA |
| 2011-12 | NCAEMS-12 | ISTE, SPPU, Pune |
| 2011-12 | 5 Days workshop on Advances in ICE | SPPU, Pune |

b) International

| Academic Year | Title of the Seminar/ Conference/ Workshops | Source of Funding |
|---------------|---|-------------------|
| 2015-16 | ICCUBEA-2016 | ISTE, IEEE, SPPU |
| 2014-15 | ICCUBEA-2015 | ISTE, IEEE, SPPU |

26. Student profile programme/course wise:

| Course | Academic Year | Applications received | Selected | Enrolled | | Pass Percentage |
|---------------------------|---------------|-------------------------------|----------|----------|----|-----------------|
| | | | | M | F | |
| UG | 2015-16 | Centralized Admission Process | 223 | 181 | 42 | 85.49 |
| | 2014-15 | | 223 | 177 | 46 | 95.67 |
| | 2013-14 | | 224 | 179 | 45 | 94.95 |
| | 2012-13 | | 223 | 188 | 35 | 94.33 |
| PG Design Engineering | 2016-17 | | 17 | 15 | 2 | NA |
| | 2015-16 | | 18 | 11 | 7 | NA |
| | 2014-15 | | 17 | 14 | 3 | 88.23 |
| | 2013-14 | | 17 | 16 | 1 | 94.11 |
| PG Heat Power Engineering | 2016-17 | | 3 | 1 | 2 | NA |
| | 2015-16 | | 15 | 11 | 4 | NA |
| | 2014-15 | | 13 | 11 | 2 | 100 |
| | 2013-14 | | 17 | 11 | 6 | 88.24 |

*M = Male *F = Female

27. Diversity of Students

| Course | Academic Year | % of students from the same state | % of students from other States | % of students From abroad |
|---------------------------|---------------|-----------------------------------|---------------------------------|---------------------------|
| UG | 2014-15 | 99.56 | 0.43 | -- |
| | 2013-14 | 99.10 | 0.89 | -- |
| | 2012-13 | 99.10 | 0.89 | -- |
| | 2011-12 | 99.10 | 0.89 | -- |
| PG Design Engineering | 2016-17 | 100 | 0 | -- |
| | 2015-16 | 100 | 0 | -- |
| | 2014-15 | 100 | 0 | -- |
| | 2013-14 | 100 | 0 | -- |
| PG Heat Power Engineering | 2016-17 | 66.67 | 33.33 | -- |
| | 2015-16 | 100 | 0 | -- |
| | 2014-15 | 84.62 | 15.38 | -- |
| | 2013-14 | 94.12 | 5.88 | -- |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| Acad Year | GATE | GRE |
|-----------|------|-----|
| 2012-13 | 2 | -- |
| 2013-14 | -- | 11 |
| 2014-15 | 2 | 9 |
| 2015-16 | -- | 8 |

29. Student progression

| Student progression | Against enrolled | | | |
|----------------------------------|------------------|---------|---------|---------|
| | 2012-13 | 2013-14 | 2014-15 | 2015-16 |
| UG to PG | 12.03% | 3.16% | 4.98% | 7.62% |
| Employed through | 59 | 100 | 118 | 112 |
| a) Campus selection | | | | |
| b) Other than campus recruitment | 26 | 25 | 15 | \$ |
| Entrepreneurship/Self-employment | 6 Numbers | | | |

30. Details of Infrastructural facilities

a) Library

The Central library is well furnished with spacious Stacking area, Reference section and Reading hall with Wi-Fi facility. Library provides OPAC (Open Public Access Catalogue) facility to students and faculties for easy access to available books. In addition to central library, each department is having a departmental library to cater the needs of students and faculty.

| Sr. No | Department/Branch | Title | Volumes |
|--------------|---|-------------|--------------|
| 01 | Mechanical Engineering | 1675 | 6156 |
| 02 | Computer Engineering | 1250 | 6274 |
| 03 | E and TC Engineering | 1272 | 6756 |
| 04 | Information Technology | 625 | 3320 |
| 05 | Civil Engineering | 213 | 1591 |
| 06 | Science and Humanities(Including Physics, Chemistry, Mathematics, Management (Engineering) and General books) | 2047 | 6671 |
| Total | | 7082 | 30768 |

Journals Subscriptions:

| | Details | 2014-15 | 2013-14 | 2012-13 | 2011-12 |
|----------------------------|-----------|---|---|--|--|
| Science | Soft Copy | 4 Packages of AICTE. –(IEL, ASME, ELSEVIER, ASCE,) | 4 Packages of AICTE. (IEEE, ASME, ELSEVIER, ASCE) | 8 Packages of AICTE. –(IEEE, ASME, Mc GRAW HILL, SPRINGER, ASCE, ELSEVIER, ASTM, J-GATE) | 7 Packages of AICTE. –(IEEE, ASME, Mc GRAW HILL, SPRINGER, ELSEVIER, ASTM, J-GATE –) |
| | Hard Copy | 10 | 10 | 10 | 14 |
| Engineering and Technology | Soft Copy | 4 Packages of AICTE. –(IEL, ASME, ELSEVIER, ASCE) | 4 Packages of AICTE. –(IEEE, ASME, ELSEVIER, ASCE,) | 8 Packages of AICTE. –(IEEE, ASME, Mc GRAW HILL, SPRINGER, ASCE, ELSEVIER, ASTM, J-GATE) | 7 Packages of AICTE. –(IEEE, ASME, Mc GRAW HILL, SPRINGER, ELSEVIER, ASTM, J-GATE) |
| | Hard Copy | 123 | 118 | 119 | 89 |

Digital Library: An electronic library with sufficient number of computing facility with focused collection of digital objects that includes audio and video material is available.

- NPTEL –130 Courses, (Lectures – 4604),
- E- Journals – 4 Packages of AICTE. (IEL, ASME, ELSEVIER, ASCE),
- Various packages for practicing and improving the Aptitude skills and for preparation of higher studies, entrance exam such as Gate/CAT/GRE Exam.
- Availability of an exclusive server: Yes
- Availability over intranet / internet: Yes
- Availability of exclusive space / room: Yes
- Number of user per day: 41

b) Internet facilities for Staff & Students

Internet facility is available in each class room, faculty rooms and labs (Two Internet lines are available)

1. Tata Communications Ltd: Primary line of 45Mbps
2. Dish- net Pvt. Ltd: Secondary Line of 10Mbps, Available bandwidth: 55Mbps,

c) Class rooms with ICT facility

| Room Description | Usage | Shared/ Exclusive | Capacity Area(m ²)/ No. of Students | Rooms equipped with |
|----------------------------------|------------|-------------------|---|--|
| Description of Classrooms | | | | |
| Class Room No-201 | Class Room | Exclusive | 72 m2 /80 | Glass board, multimedia projector and screen, computer, Internet, benches (36), fans (6), tube lights (6), dais, curtains & CCTV camera. |
| Class Room No-202 | Class Room | Exclusive | 72 m2 /80 | Glass board, multimedia projector and screen, computer, Internet, benches (36), fans (6), tube lights (6), dais, curtains & CCTV camera. |
| Class Room No-207 | Class Room | Shared | 72 m2 /80 | Glass board, multimedia projector and screen, computer, Internet, benches (36), fans (6), tube lights (6), dais, curtains & CCTV camera. |
| Class Room No-301 | Class Room | Exclusive | 72 m2 /80 | Glass board, multimedia projector and screen, computer, Internet, benches (36), fans (6), tube lights (6), dais, curtains & CCTV camera. |
| Class Room No-302 | Class Room | Exclusive | 72 m2 /80 | Glass board, multimedia projector and screen, computer, Internet, benches (36), fans (6), tube lights (6), dais, curtains & CCTV camera. |
| Class Room No-303 | Class Room | Exclusive | 72 m2 /80 | Glass board, multimedia projector and screen, computer, Internet, benches (36), fans (6), tube lights (6), dais, curtains & CCTV camera. |
| Class Room No-402B | Class Room | Exclusive | 72 m2 /80 | Glass board, multimedia projector and screen, computer, Internet, benches (36), fans (6), tube lights (6), dais, curtains & CCTV camera. |
| Class Room No-405 | Class Room | Exclusive | 72 m2 /80 | Glass board, multimedia projector and screen, computer, Internet, benches (36), fans (6), tube lights (6), dais, curtains & CCTV camera. |

| Conference Hall, Seminar Rooms, Tutorial Rooms, Drawing Hall, Departmental Library Girls Common room, meeting room, and HOD cabin. | | | | |
|---|------------------------------------|-----------|-------------------------|---|
| Central Seminar Hall (Academic Building 4th Floor) | Conference /Guest Lecture | Shared | 250 m ² /300 | White board, dais, multimedia projector and screen set (2), computer, internet, fans, tube lights, curtains. chairs, sound system, podium with public addressing system |
| LRDC/Seminar Hall Room No. C401 | Seminar Hall | Shared | 170 m ² /150 | White board, dais, multimedia projector and screen, computer, internet, chairs, fans, Tube Lights, curtains & public address system, Video conferencing facility. |
| LRDC- Learning Resources Development Center | | | | |
| *Drawing Hall No-401 | Mechanical Department Drawing Hall | Exclusive | 147 m ² /80 | Glass board, drawing benches (70), fans (12), tube lights (12), dais, curtains & drawing board attachment (400). |
| *Drawing Hall No-C405 | Civil Department Drawing Hall | Shared | 157 m ² /50 | Glass board, drawing benches (50), fans(12), tube lights (12), dais, curtains & drawing board attachment |
| * Drawing halls 401 & C 405 is shown under laboratory | | | | |
| Department Library No-307 | Department Library/ Reading Room | Exclusive | 31 m ² | Library books storages, reading tables, chairs, tube lights and fans |
| Girls Common Room No. 307B | Common Room Girls | Exclusive | 40 m ² | Table, cot, bed, pillows, mirror, chairs, windows with curtains, tube lights, fans & attached W/c. |
| Meeting Room No-105 | Departmental Meeting Room | Exclusive | 40 m ² | White board, multimedia projector and screen, computer, Printer internet, chairs, fans, tube lights. |
| HOD's Room No-105 | HOD Cabin and Office | Exclusive | 32 m ² | Computer, All in one printer, internet, chairs, HOD table with storage, fans, tube lights, small white board, and windows. |

d) Laboratories

| Curriculum Lab Description | Exclusive use / Shared | Space (m²)/ No. of Students | No. of Experiments | Quality of Instruments | Lab Manuals |
|---|-------------------------------|---|--------------------------------|-------------------------------|--------------------|
| Domain – BASIC Engineering Laboratories (for Mechanical Engineering) | | | | | |
| Basic Mechanical Engg. Lab. (306) | Exclusive | 72 m2/ 24 | BME(8) | Standard | Available |
| Engineering Graphics Lab. (102) | Shared | 72 m2/ 24 | EG-II(5) | Standard | Available |
| Basic Electrical Engg. Lab. (410) | Shared | 80 m2/25 | EEE(8) | Standard | Available |
| Domain – Thermal Engineering | | | | | |
| I.C. Engine Lab. | Exclusive | 54 m2 / 24 | AT(8) | Standard | Available |
| Thermal Engg. Lab. | Exclusive | 108 m2/ 24 | TD(8) PPE(8) | Standard | Available |
| Heat Transfer (107) | Exclusive | 72 m2 / 24 | HT(8) | Standard | Available |
| Refrigeration & Air Conditioning (106) | Exclusive | 72 m2/ 24 | RAC(8) ARAC(5) | Standard | Available |
| Fluid Engg. Lab. | Exclusive | 107 m2/ 24 | FM(8) Tm/c(9) | Standard | Available |
| Domain – Design Engineering | | | | | |
| Drawing Hall (401-A) | Exclusive | 144 m2 / 24 | EG-I(5) MSD(4) | Standard | Available |
| Drawing Hall (C-405) | Shared | 72 m2/ 24 | DME-II (2) EG-I(5) | Standard | Available |
| Computer Graphics (104) | Exclusive | 72 m2/ 24 | CAMD(5) CFD(8) | Standard | Available |
| CAD/CAM and Automation (103) | Exclusive | 72 m2/24 | CAMD & Automation(6) NMO(8) | Standard | Available |
| Dynamics of Machinery (203) | Exclusive | 72 m2/ 24 | SOM(8) DOM(8) | Standard | Available |
| Theory of Machines (204) | Exclusive | 72 m2 / 24 | TOM-II(8) TOM-I(9) | Standard | Available |

| Domain – Production / Inter-disciplinary Engineering | | | | | |
|---|-----------|----------------|---|----------|-----------|
| Metrology and quality Control(C104) | Exclusive | 72 m2 / 24 | MQC(11) | Standard | Available |
| Industrial Fluid power (304) | Exclusive | 72 m2/ 24 | HAP(10) IFP(8) | Standard | Available |
| Metallurgy (404) | Exclusive | 72 m2/ 24 | Mat. Sci.(8) META(8) | Standard | Available |
| Mechatronics Lab. (C403) | Shared | 72 m2/ 24 | MTR(9) | Standard | Available |
| Workshop | Exclusive | 309 m2/ 60 | W/S(11),M/C Shop-I(6),M/C Shop-II(5) Skill Dev.(2) | Standard | Available |
| Innovation Center/Project Lab. | Shared | 146 m2/ 24 | Research / Project work | Standard | Available |
| Product Innovation Lab | Exclusive | 72 m2/ 24 | Product Innovation/ Development | Standard | Available |
| Testing of Materials /SOM Lab. (C101) | Shared | 170+62* m2/ 24 | Material Testing Lab. | Standard | Available |

31. Number of students receiving financial assistance from college, university, government or other agencies

| Academic Year | No. of students receiving financial assistance from | | | |
|---------------|---|------------|------------|-------|
| | College | University | Government | Other |
| 2015-16 | 52 | -- | -- | 60 |
| 2014-15 | 16 | -- | 04 (CIRT) | 72 |
| 2013-14 | 20 | 04 | -- | 75 |
| 2012-13 | 28 | -- | -- | 45 |

• **Financial Assistance from College, University, Government and NGOs:**

| Academic Year | No. of students benefited | | |
|---------------|---------------------------------------|-----------------------------------|--------------|
| | Earn and Learn (College & University) | Free Meal and Book Bank (College) | Other (NGOs) |
| 2016-17 | 04 | 02 | 03 |

| | | | |
|---------|----|----|----|
| 2015-16 | 06 | 02 | -- |
| 2014-15 | 11 | -- | -- |
| 2013-14 | -- | -- | -- |

| Acad Year | Financial Assistance from Government | | | | | | | | | |
|-----------|--------------------------------------|---------|--------|---------|----------|-----------|---------|----------|---------|----------|
| | SC Sch | SC Free | ST Sch | ST Free | VJNT SCH | VJNT Free | SBC SCH | SBC Free | OBC SCH | OBC Free |
| 2015-16 | 4422417 | 3026254 | 791743 | 1502838 | 3465411 | 1695026 | 414239 | 318830 | 3249033 | 1964962 |
| 2014-15 | 4434197 | 2512944 | 937684 | 1390410 | 2779947 | 637094 | 394682 | 295136 | 3046159 | 1649772 |
| 2013-14 | 4014129 | 2246162 | 683518 | 598628 | 2652356 | 1288363 | 280054 | 210235 | 2300529 | 0 |

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

| Acad Year | Title of the lecture | Name of the external experts | Organization | Number of students benefited |
|-----------|---|--|--|------------------------------|
| 2014-15 | Sustainable Energy Technologies group organized a seminar on "Energy Conservation" for Creating Awareness about Energy Conservation TE and BE (Mech). | Expert Speaker was Mr. Sandeep Padhye, Joint Director (WR), PCRA, Mumbai | Petroleum Conservation Research Association (PCRA) | 250 |
| 2014-15 | A session on Metrology and Quality for TEMechanical students | Mr. Taizoon Baker | Baker Gauges India Pvt. Ltd., Pune | (240 Students) |
| 2014-15 | Session for BE students in Product design and Development Field. | Mr. Sachin Adlinge, | SKF India Pvt. Ltd, Pune | |
| 2014-15 | A session on Gear Engineering for TE Mechanical Students | Dr. G. S. Patki | Consultant for Gears | 200 |
| 2014-15 | Session on 'Principles and Applications Engineering Optimization Techniques' | Dr. Tripathi | COEP, Pune. | |
| 2014-15 | Lecture on Scope of Mechanical Engineer in Aerospace Industry | Mr. C. Nehate | Eaton, Pune | 85 |
| 2014-15 | Seminar on 'Patent filling and awareness ' was conducted | NCL, Pune team Members | NCL | 150 |
| 2014-15 | A session on Machine | P Vasudevan | (Retd.) Professor IIT | |

| | | | | |
|---------|---|--|---|-----|
| | Design Online Software on Fatigue Analysis | | Bombay | |
| 2014-15 | Session on Power Plant Engineering | Mr. Paranjape | (Retd) Manager, Tata Power Khopoli | 200 |
| 2012-13 | An institutional training program on “Present Energy scenario and various case studies of energy conservation” was organized. | Mr. A. Y. Mehendale | Petroleum Conservation Research Association, Bandra, Mumbai | 230 |
| 2013-14 | Workshop organized on Nastran, Patran, and ADAMS | | Techlead solutions Pvt. Ltd. | 200 |
| 2013-14 | Seminar on Basics of metrology | Mr. Taizoon Baker | Executive Director, M/S Baker Gauges India Pvt. Ltd., Pune. | 230 |
| 2013-14 | Workshop organized on Advanced I.C. Engine Technologies | Experts Hub Industry Skill Development Center and Radiance | IIT Bombay | 100 |
| 2013-14 | “Prerana” Personality Development for Girls | | SPPU | 140 |

33. Teaching methods adopted to improve student learning

Following teaching methods are adopted by the faculty members to enhance student’s learning.

| Teaching Method | Description | Teaching Method | Description |
|-----------------|--|-----------------|-----------------------------|
| CDM 1 | Lecture with interaction | CDM 6 | Mini projects / Competition |
| CDM 2 | Quiz | CDM 7 | Presentation |
| CDM 3 | Group Discussion | CDM 8 | Industrial visit |
| CDM 4 | Demonstration (through Models, chart, videos etc.) | CDM 9 | Asynchronous Discussion |
| CDM 5 | Case study based | CDM 10 | Tutorial |

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Cloth donation activity for the Punarutthan Samarasta Gurukulam (4 Cartons Clothes) and SAMPARC (Social Action for Manpower Creation) (10 Cartons Clothes). Faculty and students of this institute conduct certain projects and activities for betterment of the Society. Some such activities are mentioned below.

- Village adoption and conducted NSS camp for various developmental activities.

- Cloth donation activity for the Punarutthan Samarasta Gurukulam (4 Cartons Clothes) and SAMPARC (Social Action for Manpower Creation) (10 Cartons Clothes).



- Blood donation activity on 15th Sep 2015. In this camp, students, faculties & admin staff together donated total 378 have Units of blood
- Nirmalya Collection activity on 23th September and 27th September 2015. 55 NSS volunteers collected Nirmalya in separate tanks; they also worked for controlling the traffic, cleaning the surrounding area and participating in Ganesh aarti. More than 5000 Ganesh Statues were brought for visarjan. All the NSS volunteers enthusiastically collected the nirmalya, separated bio-degradable material & also helped people to find their way in crowd

35. SWOC analysis of the department and Future plans

Strengths:

- Excellent infrastructural facilities, well-furnished laboratories with up to date equipment.
- PDCA cycle is strictly followed.
- Good intake quality students.
- Motivated and enthusiastic faculty.
- Situated in vicinity of Industrial belt.
- Excellent support by management to faculty and students.
- 6 faculty members with PhD qualification & 13 number of PhD pursuing faculty

Weaknesses:

- Revenue generation through sponsored projects, STTPs, Training and consultancy needs to be more focused.
- Cadre wise faculty structure needs to be strengthened.
- IPR generation can be still better.

Opportunities:

- There are number of industries nearby to initiate the revenue generation.
- Number of faculty already carrying out research in various domains. The research outcomes can be integrated.

Challenges:

- Number of graduates completing the education from large number of colleges. It is difficult to place all the graduates at the end of their education.

Future Plans:

- Research and Development activities, Funded Research projects, Revenue generation through consultancy will be focused.
- Increasing the employability of the students.
- Interaction with outside world will be improved.
- New Product development and incubation activities to be strengthened.

Evaluative Report of Electronics and Telecommunication Engineering Department

- 1 **Name of the department** : Electronics and Telecommunication Engineering
- 2 **Year of Establishment** : 1999
- 3 **Names of Programmes / Courses offered** : Bachelor of Engineering (E&TC)
(UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.) : Master of Engineering (VLSI and Embedded)

4. Names of Interdisciplinary courses and the departments / units involved

| Sr. No. | Department Name | Subject Offered |
|---------|------------------------|-----------------------------|
| 1 | First Year Engineering | Engineering Mathematics III |

5. Annual/ semester/choice based credit system (programme wise):

| Sr.No. | Programme | Credit System |
|--------|--|---|
| 1 | Bachelor of Engineering (E&TC) | <ul style="list-style-type: none"> • Credit system is started from 2015-2016 by SPPU, Pune. Currently First Year and Second Year have credit based pattern. • Third and Final Year follows semester based pattern prescribed by SPPU, Pune. |
| 2 | Master of Engineering (E&TC) (VLSI and Embedded Systems) | Credit system. |

6. Participation of the department in the courses offered by other departments

| Sr. No. | Department Name | Subject Offered |
|---------|------------------------|-------------------------------|
| 1 | First Year Engineering | Basic Electronics Engineering |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

| Sr. No. | Name of University / Industry/ Institute | Courses / Programs Offered |
|---------|--|--|
| 1 | KPIT Technologies | Advanced Automotive Electronics |
| 2 | B&R Industrial Automation Pvt. Ltd | PLC Trainer Boards |
| 3 | Texas Instruments | Analog And Digital Project Development Boards. |
| 4 | Masstrans Power Electronics | Mutual Cooperation In The Area Of Power Electronics. |
| 5 | TIFAC Government of India | Program For Skill Development Of Students In |

| | | |
|---|---------------------------|--|
| | | The Area Of Automation Projects |
| 6 | BOAT Ministry of HRD Body | Internship Program For Skill Development Of Students |
| 7 | Infosys Campus Connect | Analytical Skill Development Program |
| 8 | 3DPLM | Product Development And Innovation Center |

8. Details of courses/programmes discontinued (if any) with reasons

The programme previously named as Industrial Electronics has been discontinued and started as Electronics & Telecommunications Engineering to meet up the challenges, trends and growing opportunities in the field of Electronics & Telecommunication.

9. Number of Teaching posts

| Title | Sanctioned | Filled |
|---------------------|------------|--------|
| Professor | 5 | 5 |
| Associate Professor | 10 | 3 |
| Assistant Professor | 29 | 35 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

Academic Year 2016-17

| Sr. No. | Faculty Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---------|-------------------------|---------------|------------------------------------|------------------------|----------------------------|---|
| 1 | Dr. N. B. Chopade | Ph.D. | Professor & Head of the Department | Electronics Engg | 23.5 | 3 |
| 2 | Dr. Mrs. S. U. Bhandari | Ph.D | Professor & ME Coordinator | Electronics Engg | 12 .5 | - |
| 3 | Dr. Kishor Kinage | Ph.D | Professor | Electronics Engg | 27 | - |
| 4 | Dr. Vijay Patil | Ph.D | Professor | Electronics Engg | 24 | - |
| 5 | Dr. Mahesh Kolte | Ph.D | Professor | Electronics Engg | 25 | 5 |
| 6 | Mr. A. R. Suryawanshi | M.E | Associate Prof | Industrial Electronics | 20.5 | - |
| 7 | Mr. A. B. Patil | Ph.D | Associate | Power | 23.5 | - |

| | | | | | | |
|----|--------------------------|------------------|-------------------|------------------------------------|------|---|
| | | pursuing | Prof | Electronics | | |
| 8 | Mr. S. L. Tade | Ph.D pursuing | Associate Prof | E&TC | 16.5 | - |
| 9 | Mr. G. R. Rahate | M.E. | Asst. Prof. | Digital systems | 19.5 | - |
| 10 | Mrs. V.A. Kulkarni | M.E. | Asst. Prof. | Digital System | 23.5 | - |
| 11 | Mrs. S. U. Deoghare | M.E. | Asst. Prof. | Digital System | 13.5 | - |
| 12 | Mrs. R. S. Kad | M.Tech. | Asst. Prof. | Biomedical Instrumentat ion | 12.5 | - |
| 13 | Mrs. S. K. Gaikwad | M.Tech. | Asst. Prof. | E&TC | 12.5 | - |
| 14 | Mrs. J. S. Kulkarni | PhD Pursuing | Asst. Prof. | E&TC Microwave | 12.5 | - |
| 15 | Mrs. S. M. Dhavale | M.E | Asst. Prof | Digital System | 12.5 | - |
| 16 | Ms. A. S. Pawar | M.E. | Asst. Prof | Digital Electronics | 13.5 | - |
| 17 | Mrs. M. S. Bhandarkar | M.E. | Asst. Prof | Digital System | 8.5 | - |
| 18 | Mrs. A. A. Shrivastav | M.Tech. | Asst. Prof | VLSI | 7.5 | - |
| 19 | Mrs. P.K. Rajani | Ph.D pursuing | Asst. Prof | Digital System | 11.5 | - |
| 20 | Mrs. S. P. Jagtap | M.E. | Asst. Prof | Digital System | 8.5 | - |
| 21 | Mr. P. R. Sonawane | Ph.D pursuing | Asst. Prof | Microwave Engg. | 6.5 | - |
| 22 | Mrs. A.S. Shinde | M.E. | Asst. Prof | Electronics | 8.5 | - |
| 23 | Mr. S. D. Nagarale | M.Tech. | Asst. Prof | VLSI Systems | 5.5 | - |
| 24 | Mr. K. B. Kotangale | M.Tech. | Asst. Prof | Electronics instrumentati on | 5.5 | - |
| 25 | Mrs. V.S. Bendre | Ph.D Pursuing | Asst. Prof | Digital System | 13.5 | - |
| 26 | Mrs. V. K. Harpale | Ph.D Pursuing | Asst. Prof | VLSI &Embedded systems | 13.5 | - |
| 27 | Mrs. S.Y. Sawant | M.E | Asst. Prof | Signal Processing | 11.5 | - |

| | | | | | | |
|----|--------------------|---------------|------------|-----------------------------|------|---|
| 28 | Mrs. J. P. Joshi | M.E. | Asst. Prof | Digital System | 11.5 | - |
| 29 | Mr. M. M. Narkhede | M.Tech. | Asst. Prof | Electronics | 4.5 | - |
| 30 | Mrs. S. V. Patil | M.E | Asst. Prof | E&TC | 7.5 | - |
| 31 | Mrs. A. M. Ekbote | M.Tech. | Asst. Prof | Electronics | 9.5 | - |
| 32 | Mr. U.R. Shirode | M.Tech | Asst. Prof | VLSI Tech | 3.5 | - |
| 33 | Mr. S. S. Ayane | M.E | Asst. Prof | Digital Electronics | 10.5 | - |
| 34 | Mr. P. V. Sontakke | M. Tech | Asst. Prof | Electronics instrumentation | 8.5 | - |
| 35 | Mrs. A. V. Bhamare | M.E. | Asst. Prof | VLSI | 6.5 | - |
| 36 | Mrs. D.S. Khurge | Ph.D Pursuing | Asst. Prof | Electronics | 10.5 | - |
| 37 | Mrs. N .D. Garade | M.E. | Asst. Prof | VLSI & Embedded systems | 3.5 | - |
| 38 | Mr. A. S. Gadhe | M. Tech | Asst. Prof | VLSI Tech.) | 3.5 | - |
| 39 | Mrs. A. M. Lalge | M.E. | Asst. Prof | VLSI & Embedded systems | 4.5 | - |
| 40 | Mrs. S. A. Patil | M.E. | Asst. Prof | Communication | 15.5 | - |
| 41 | Ms. K.V. Shinde | M.E. | Asst. Prof | Digital Systems | 4 | - |
| 42 | Mrs. S. R. Pawar | M.E. | Asst. Prof | VLSI & Embedded Systems | 4 | - |
| 43 | Ms. P.A . Undre | M.E. | Asst. Prof | C.N | 2 | - |

Academic Year 2015-16

| Sr. No. | Faculty Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---------|-------------------------|---------------|----------------------------|------------------|----------------------------|---|
| 1 | Dr. N. B. Chopade | Ph.D. | Professor & HOD | Electronics Engg | 23 | 3 |
| 2 | Dr. Mrs. S. U. Bhandari | Ph.D | Professor & ME Coordinator | Electronics Engg | 12 | - |

| | | | | | | |
|----|-----------------------|---------------|----------------|-----------------------------|----|---|
| 3 | Mr. A. R. Suryawanshi | M.E. | Associate Prof | Industrial Electronics | 20 | - |
| 4 | Mr. A. B. Patil | M.E. | Associate Prof | Power Electronics | 23 | - |
| 5 | Mr. S. L. Tade | Ph.D pursuing | Asst. Prof. | E&TC | 16 | - |
| 6 | Mr. G. R. Rahate | M.E. | Asst. Prof. | Digital systems | 19 | - |
| 7 | Mrs. V.A. Kulkarni | M.E. | Asst. Prof. | Digital System | 23 | - |
| 8 | Mrs. S. U. Deoghare | M.E. | Asst. Prof. | Digital System | 13 | - |
| 9 | Mrs. R. S. Kad | M.Tech. | Asst. Prof. | Biomedical Instrumentation | 12 | - |
| 10 | Mrs. S. K. Gaikwad | M.Tech. | Asst. Prof. | E&TC | 12 | - |
| 11 | Mrs. J. S. Kulkarni | PhD Pursuing | Asst. Prof. | E&TC Microwave | 12 | - |
| 12 | Mrs. S. M. Dhavale | M.E. | Asst. Prof | Digital System | 12 | - |
| 13 | Ms. A. S. Pawar | M.E. | Asst. Prof | Digital Electronics | 13 | - |
| 14 | Mrs. M. S. Bhandarkar | M.E. | Asst. Prof | Digital System | 8 | - |
| 15 | Mrs. A. A. Shrivastav | M.Tech. | Asst. Prof | VLSI | 7 | - |
| 16 | Mrs. P.K. Rajani | Ph.D pursuing | Asst. Prof | Digital System | 11 | - |
| 17 | Mrs. S. P. Jagtap | M.E. | Asst. Prof | Digital System | 8 | - |
| 18 | Mr. P. R. Sonawane | M.E. | Asst. Prof | Microwave Engg. | 6 | - |
| 19 | Mrs. A.S. Shinde | M.E. | Asst. Prof | Electronics | 8 | - |
| 20 | Mr. S. D. Nagarale | M.Tech. | Asst. Prof | VLSI Systems | 5 | - |
| 21 | Mr. K. B. Kotangale | M.Tech. | Asst. Prof | Electronics instrumentation | 5 | - |
| 22 | Mrs. V.S. Bendre | Ph.D Pursuing | Asst. Prof | Digital System | 13 | - |
| 23 | Mrs. V. K. | Ph.D | Asst. Prof | VLSI | 13 | - |

| | | | | | | |
|----|---------------------|---------------|--------------------|-----------------------------|---------|---|
| | Harpale | Pursuing | | &Embedded systems | | |
| 24 | Mrs. S. Y. Sawant | M.E. | Asst. Prof | Signal Processing | 11 | - |
| 25 | Mrs. J. P. Joshi | M.E. | Asst. Prof | Digital System | 11 | - |
| 26 | Mr. M. M. Narkhede | M.Tech. | Asst. Prof | Electronics | 4 | - |
| 27 | Mrs. S. V. Patil | M.E. | Asst. Prof | E&TC | 7 | - |
| 28 | Mrs. A. M. Ekbote | M.Tech. | Asst. Prof | Electronics | 9 | - |
| 29 | Mrs. S.I. Shirke | M.E. | Asst. Prof | Digital System | 12 | - |
| 30 | Mr. U.R. Shirode | M.Tech | Asst. Prof | VLSI Tech | 2 | - |
| 31 | Mr. S. S. Ayane | M.E. | Asst. Prof | Digital Electronics | 10 | - |
| 32 | Mr. P. V. Sontakke | M. Tech | Asst. Prof | Electronics instrumentation | 8 | - |
| 33 | Mrs. A. V. Bhamare | M.E. | Asst. Prof | VLSI | 6 | - |
| 34 | Mrs. D.S. Khurje | Ph.D Pursuing | Asst. Prof | Electronics | 10 | - |
| 35 | Mrs. N. D. Garade | M.E. | Asst. Prof | VLSI & Embedded systems | 3 | - |
| 36 | Mr. A. S. Gadhe | M. Tech | Asst. Prof | VLSI Tech.) | 2 | - |
| 37 | Mrs. A. M. Lalde | M.E. | Asst. Prof | VLSI & Embedded systems | 4.5 | - |
| 38 | Mrs. S. A. Patil | M.E. | Asst. Prof | Communication | 15 | - |
| 39 | Ms. Y. M. Narkhede | M.E. | Teaching Assistant | Electronics | 5 Month | - |
| 40 | Mrs. S. P. Savarkar | M.E.VLSI & ES | Teaching Assistant | E&Tc | 2 | |
| 41 | Mrs. M. H. Murai | M.E. | Teaching Assistant | VLSI & Embedded systems | 6 | - |

11. List of senior visiting faculty

| Sr. | Academician / Industry | Designation | Industry/ Institute |
|-----|------------------------|-------------|---------------------|
|-----|------------------------|-------------|---------------------|

| No. | Person | | |
|-----|--------------------|-----------------------------|--------------------------------------|
| 1. | Prof. S.S. Pujari | Visiting Professor | Pune University, Dept. of Technology |
| 2. | Mr. Mayur Deshmukh | Senior Application Engineer | CoreEL Technologies, Pune |
| 3. | Mr. Ashok P. Kale | Technical Director | Doordarshan Kendra, Pune |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Nil (No temporary faculty is recruited in the department).

13. Student -Teacher Ratio (programme wise)

Academic Year: 2016-17

| Program | Student Ration |
|----------------|----------------|
| Under Graduate | 13.95 |
| Post Graduate | 18 |

Academic Year: 2015-16

| Program | Student Ration |
|----------------|----------------|
| Under Graduate | 14.63 |
| Post Graduate | 18 |

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

| Title | Sanctioned | Filled |
|-----------------------|------------|--------|
| Laboratory Assistants | 12 | 12 |
| Laboratory Attendant | 1 | 1 |
| Junior Clerk | 1 | 1 |
| Peon | 2 | 2 |
| Electricians | 1 | 1 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| Qualification | Number of Teaching Faculty |
|---------------|----------------------------|
| PhD | 5 |
| ME / MTech | 38 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

| Number of faculty with ongoing projects from National funding Agencies | Grants received from National funding agencies | Number of faculty with ongoing projects from International funding Agencies | Grants received from International funding agencies |
|--|--|---|---|
| 2 | 1.5 lacs | NIL | NIL |
| 1 | 7.25Lacs | NIL | NIL |
| 2 | 50k | NIL | NIL |

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

| Sr. No. | Academic Year | Faculty Name | Title of the Project | Funding Agency | Grants Received |
|---------|--------------------------------|--|--|--|-----------------|
| 1 | 2014-16 | Mr. G.R. Rahate (PI) Dr. N. B. Chopade (CO-PI) | Wireless/Mobile Communication | Savitribai Phule University of Pune under BCUD | 1.5 lacs |
| 2 | 2013-14 | Dr. S. U. Bhandari | Development of state of the art research lab for VLSI and Embedded Systems under the MODROBS | AICTE | 7,25,000/- |
| 3 | 2010-11 | Mrs. V.A. Kulkarni (PI) Prof. A.R.Suryawanshi (CO-PI) | EEG based brain computer interface for communication & control | Savitribai Phule University of Pune under BCUD | 50,000 |
| 4 | 2015-2017 (Proposal Submitted) | Mr. S. L. Tade Dr. N. B. Chopade | Wireless ECG transmission System for continuous event recording for telemedicine application | Savitribai Phule University of Pune under BCUD | Rs.1,87,500/- |
| 5 | 2015-2017 (Proposal Submitted) | Mrs. S.U.Deoghare Mrs. M. S. Bhandarkar | Robust Speaker Verification System for Attendance Monitoring | Savitribai Phule University of Pune under BCUD | Rs. 2.9 Lacs |
| 6 | 2015-2017 (Proposal Submitted) | Mrs. V. K. Harpale V. K. Bairagi | Real-Time Driver Vigilance Monitoring System using Scalp EEG | Savitribai Phule University of Pune under | Rs. 4.60 Lacs |

| | | | | | |
|----|-----------------------------------|--|--|---|----------------|
| | | | Analysis and Eye Blink Sensor Interface | BCUD | |
| 7 | 2015-2017 (Proposal Submitted) | Mr. S.S. Ayane Mrs. J. P. Joshi | Determination of primary Nutrient Deficiency in Cotton Plan Through Remote Sensing | Savitribai Phule University of Pune under BCUD | Rs. 2.32 Lacs |
| 8 | 2015-2017 (Proposal Submitted) | Mr. K. B. Kotangale Mr. P. V. Sontakke | Real-time Smart Attendance Monitoring System | Savitribai Phule University of Pune under BCUD | Rs. 2.61 Lacs |
| 9 | 2015-2017 (Proposal Submitted) | Mrs. V. S. Bendre Mrs. Archana Bhamare | The hardware and Software Co-Design based Finger print Identification System | Savitribai Phule University of Pune under BCUD | Rs. 1.85 Lacs |
| 10 | 2015-2017 (Proposal Submitted) | Dr. S. U. Bhandari , Mrs. D. S. Khurge Mrs. V. S. Bendre | Design of Low power, high speed Quaternary Memory | ISRO Ahmedabad, under RESPOND program | Rs. 11.25 Lacs |
| 11 | 2015-2017 (Proposal Submitted) | Mrs. Anjali A. Shrivastav | Performance enhancement of Software Defined Radio using Dynamic Partial Reconfiguration and hardware-software co-design approach | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 12 | 2015-2017 (Proposal Submitted) | Mrs. Varsha. S. Bendre Mr. U. R. Shirode | Low Power Operational Amplifier Using Deep Submicron Technology | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 13 | 2015-2017 (Proposal Submitted) | Mrs. Veena Kulkarni Dr. N. B. Chopade | GSM based ECG Machine | University Grants Commission's Minor Research | Rs. 5 Lacs |

| | | | | | |
|----|-----------------------------------|---|--|---|------------|
| | | | | Project for Teacher | |
| 14 | 2015-2017 (Proposal Submitted) | Dr. N. B. Chopade Mr. M. M. Narkhade | Eco friendly approach for PCB design, Fabrication & Development | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 15 | 2015-2017 (Proposal Submitted) | Mrs. V. K. Harpale V. K. Bairagi | Real-Time processing and Analysis of EEG Signals For Epileptic Seizure Detection | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 16 | 2015-2017 (Proposal Submitted) | Mr. G. R. Rahate Mr. S. S. Sambare | Performance Analysis of Different Vertical Handover And Schemes And Implementation Of An Effective Algorithm on FPGA | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 17 | 2015-2017 (Proposal Submitted) | Mr. S. L. Tade Dr. N. B. Chopade | To implement an Effective Algorithm for Microaneurysm (MA) Detection and Classification Which Helps for Medical Diagnosis & Continuous Monitoring of Clinically Observed Symptoms In Retina Of Diabetic Patients | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 18 | 2015-2017 (Proposal Submitted) | Mr. A. B. Patil Mrs. R. S. Kad | Calibration Setup for Modern electronic Test and Measuring Instruments | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 19 | 2015-2017 | Mrs. Swati. P. | Efficient Algorithm | University | Rs. 5 Lacs |

| | | | | | |
|----|--------------------------------|---|--|---|---------------|
| | (Proposal Submitted) | Jagtap Mrs. Jyoti. S. Kulkarni | for 3D Image Compression using Different Transforms | Grants Commission's Minor Research Project for Teacher | |
| 20 | 2015-2017 (Proposal Submitted) | Mrs. Ashwini Shinde Mrs. S. Y. Sawant | Emotion Detection using Digital signal Processing of EEG | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 21 | 2015-2017 (Proposal Submitted) | Mrs. Rajani. P.K Dr. Arti Khaparde | Implementation of Bio-inspired Algorithms for Error Concealment in Video for Spatio-Temporal Domain to improve the Video Quality | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 22 | 2015-2017 (Proposal Submitted) | Mr. A. R. Suryawanshi Mr. P. R. Sonawane | A smart model for age prediction using Facial Dynamics. | University Grants Commission's Minor Research Project for Teacher | Rs. 5 Lacs |
| 23 | 2016-18 (Proposal Submitted) | Dr. S.U. Bhandari (PI) Mrs.A. A. Shrivastav Mrs. A.M. Lalge | FPGA based Partially Reconfigurable PSK Demodulator with bit-synchronizer | ISRO | Rs. 7.55 Lacs |

18. Research Centre /facility recognized by the University

Applied. The Local Inspection Committee visited and assessed the department research centre. Result is awaited.

Department Laboratories are equipped with basic & advanced hardware as well as software.

Software tools available: MATLAB 13a, Xilinx ISE 13.1, IC Design Tool (Mentor), Questa Advanced Simulator, DEL Statistica, Multisim.

Free Open Source Software: Scilab, Python, Logisim, KiCAD, Verilator, Audacity, eSim, Eclipse, Ubuntu, Gcc Compiler

Hardware facilities available: CRO, DSO, Spectrum Analyzer, Logic analyzer, True Power scope, DIP lab, Zed Board, Virtex 7 Evaluation kit along with Vivado design suite, Spartan 6, OMAP, DSP+ ARM Development kit, PLC (B&R Make), PCB Design & Development Setup, Wobbuloscope and colour pattern generator, SDR Setup

19. Publications:

| Sr. No. | Name of the Faculty | No. of Papers published in peer reviewed journals Faculty/students | No. of Publications listed in International /National conference | Mono-graphs | Chapters In Book | Books Edited | Books with ISBN in international DB | Citation Index | SNIP | SJR | Impact Factor | h-Index Average |
|---------|-----------------------|--|--|-------------|------------------|--------------|-------------------------------------|----------------|------|-----|---------------|-----------------|
| 1 | Dr. N. B. Chopade | 08 | 14 | - | - | - | - | 13 | - | - | - | 3 |
| 2 | Dr. S. U. Bhandari | 10 | 15 | - | - | - | - | 3 | - | - | - | 1 |
| 3 | Dr. V. N. Patil | 01 | | | | | | | | | | |
| 4 | Mr. A. R. Suryawanshi | 11 | 09 | - | - | - | - | 1 | - | - | - | 1 |
| 5 | Mr. A. B. Patil | 04 | - | - | - | - | - | - | - | - | - | - |
| 6 | Mr. S. L. Tade | 04 | 09 | - | - | - | - | - | - | - | - | - |
| 7 | Mrs. V. A. Kulkarni | 01 | 02 | - | - | - | - | - | - | - | - | - |
| 8 | Mrs. S. U. Deoghare | 09 | 08 | - | - | - | - | - | - | - | - | - |
| 9 | Mrs. R. S. Kad | 06 | 03 | - | - | - | - | - | - | - | - | - |
| 10 | Mrs. S. K. Gaikwad | 01 | - | - | - | - | - | - | - | - | - | - |
| 11 | Mrs. S. M. Dhavale | 05 | - | - | - | - | - | - | - | - | - | - |
| 12 | Mrs. J. S. Kulkarni | 04 | 09 | - | - | - | - | 1 | - | - | - | - |
| 13 | Mrs. A. S. Pawar | 02 | 01 | - | - | - | - | - | - | - | - | - |
| 14 | Mrs. M. S. Bhandarkar | 05 | 07 | - | - | - | - | - | - | - | - | - |
| 15 | Mrs. Rajani P. K | 06 | 07 | - | - | - | - | - | - | - | - | - |
| 16 | Mrs. A. A. Shrivastav | 05 | 01 | - | - | - | - | - | - | - | - | - |
| 17 | Mrs. S. P. Jagtap | 03 | 01 | - | - | - | - | - | - | - | - | - |
| 18 | Mr. P. R. Sonawane | 04 | - | - | - | - | - | - | - | - | - | - |
| 19 | Mrs. A. S. Shinde | 03 | - | - | - | - | - | - | - | - | - | - |

| | | | | | | | | | | | | |
|----|---------------------|----|----|---|---|---|---|---|---|---|---|---|
| 20 | Mr. S. D. Nagarale | 02 | - | - | - | - | - | - | - | - | - | - |
| 21 | Mrs. V.S. Bendre | 04 | 07 | - | - | - | - | - | - | - | - | - |
| 22 | Mr. K. B. Kotangale | 05 | - | - | - | - | - | - | - | - | - | - |
| 23 | Mrs. S. Y. Sawant | 02 | 01 | - | - | - | - | - | - | - | - | - |
| 24 | Mrs. S. V. Patil | 01 | 01 | - | - | - | - | - | - | - | - | - |
| 25 | Mrs. J. P. Joshi | 07 | 01 | - | - | - | - | - | - | - | - | - |
| 26 | Mrs. V.K. Harpale | 03 | 07 | - | - | - | - | - | - | - | - | - |
| 27 | Mr. G. R. Rahate | 06 | 11 | - | - | - | - | - | - | - | - | - |
| 28 | Mrs. A.M. Ekbote | - | 02 | - | - | - | - | - | - | - | - | - |
| 29 | Mrs. S. I. Shirke | 01 | - | - | - | - | - | - | - | - | - | - |
| 30 | Mr. P. V. Sontakke | 08 | - | - | - | - | - | - | - | - | - | - |
| 31 | Mrs. D. S. Khurge | 01 | 06 | - | - | - | - | 1 | - | - | - | - |
| 32 | Mr. S. S. Ayane | 03 | - | - | - | - | - | - | - | - | - | - |
| 33 | Mrs. A.V. Bhamare | 01 | 01 | - | - | - | - | - | - | - | - | - |
| 34 | Mrs. A. M. Lalge | 02 | 04 | - | - | - | - | 3 | - | - | - | 1 |

20. Areas of consultancy and income generated

| Sr.No. | Area of Consultancy | Income generated |
|--------|---|------------------|
| 1 | Training Program on Solar smart student certification in association with KWatt solutions, SINE, IIT Bombay | 11,332/- |
| 2 | FDP on EPD course revision | 34,300/- |
| 3 | Reconfigurable Computing | 99,500/- |
| 4 | Rapid Prototyping of Electronics Projects | 6,000/- |
| 5 | VED quest 2014 | 16500/- (19,255) |

21. Faculty as members in

| Sr.No. | Committee | No. of Faculty |
|--------|---|----------------|
| 1 | International | Nil |
| 2 | National | 01 |
| 3 | Editorial | 03 |
| 4 | Reviewer/Session Chair/Convener | 26 |
| 5 | Invited Talks/Judge/Resource/Examiner/Chief guest | 14 |
| 6 | LIC/subject chairman/flying squad/selection committee/Syllabus revision committee/other university committees | 09 |

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme

| Acad Year | Total Groups | No. of In-house Projects | % of in-house projects |
|-----------|--------------|--------------------------|------------------------|
|-----------|--------------|--------------------------|------------------------|

| | | | |
|---------|----|----|-------|
| 2016-17 | 75 | 47 | 62.66 |
| 2015-16 | 82 | 45 | 54.87 |
| 2014-15 | 76 | 50 | 65.79 |
| 2013-14 | 53 | 30 | 56.60 |
| 2012-13 | 32 | 25 | 78.13 |

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies

| Year | Total Groups | No. of in Collaboration | % sponsored |
|---------|--------------|-------------------------|-------------|
| 2016-17 | 75 | 28 | 37.33 |
| 2015-16 | 82 | 37 | 45.12 |
| 2014-15 | 76 | 26 | 34.21 |
| 2013-14 | 53 | 23 | 43.40 |
| 2012-13 | 32 | 07 | 21.88 |

23. Awards / Recognitions received by faculty and students

| AY 2016-17 | | | | |
|------------|-----------------------|--------------|---|---|
| Sr. No. | Name of the Faculty | Organization | Date/Year | Awards/Recognition |
| 1 | Dr. N.B Chopade | PCCOE | 12-13 August 2016 | General Chair for International Conference (ICCUBEA 2016) |
| 2 | Dr. V.N Patil | I2IT Pune | 9 th and 10 th Sept 2016. | General Chair for International Conference (ICACDOT 2016) |
| 3 | Dr. S.U Bhandari | PCCOE | 12-13 August 2016 | Finance Chair for International Conference (ICCUBEA 2016) |
| 4 | Prof. A.R Suryawanshi | PCCOE | 12-13 August 2016 | Technical Chair for Automation & control track in ICCUBEA-2016 International Conference |
| 5 | Prof. G. R. Rahate | PCCOE | 12-13 August 2016 | Technical & Program Chair for Computer Network in ICCUBEA-2016 International Conference |
| 6 | Prof. A.R | PCCOE | 12-13 August | Session chair for |

| | | | | |
|----|----------------------------------|--|--|---|
| | Suryawanshi , Mrs. D.S Khurge | | 2016 | International Conference (ICCUBEA-2016) |
| 7 | Dr. N.B Chopade | ICACDOT 2016 | 10 th Sept 2016 | Plenary talk on “ Transforms in Signal Processing”, in IEEE Pune Section Sponsored ICACDOT 2016, I2IT, Pune |
| 8 | Dr. V.N Patil | I2IT,Pune | 9 th and 10 th Sept 2016. | Session Chair for International Conference (ICACDOT 2016) |
| 9 | Prof. A. R. Suryawanshi | BSW, Pune university | 3 rd May 2012 | Best student welfare Officer |
| 10 | Mrs. S. K. Gaikwad | COEP | 2012-13 | Best Project award for ME project |
| 11 | Prof. A. R. Suryawanshi | Bharatiya Jain Sanghatna, Chinchwad, Pune | 7th July 2007 | Adarsh Shikshak Purskar |
| 12 | Prof. A. B. Patil | PCCOE | 2007 | Best Teacher Award |

Awards / Recognitions received by Students:

| Sr. No | Name of the student | Event Name | Date/Year | Award/Recognition |
|-------------------|----------------------------|-----------------------------|---------------------------|--|
| AY 2015-16 | | | | |
| 1 | Yash Patil | Sinhgad Karandak sports | 27 th sep 2015 | Runner up |
| 2 | Ankush Khanapure | Sinhgad Karandak sports | 27 th sep 2015 | Runner up |
| 3 | Lonkar Madhuri | PCCOE | 11 th jan 2016 | Runner Up of Intra College Project Competition |
| 4 | Akanksha Kumbhar | PCCOE | 11 th Jan 2016 | Runner Up of Intra College Project Competition |
| 5 | Shibhra Tupke | Miss Global India | Jan -2016 | Winner |
| 6 | Shubham Shevde | International Film Festival | 10feb-2016 | Short film “Kaalyatram” Selecte d in top 10 short film. |
| AY 2014-15 | | | | |
| 1 | Rahul Ranjan | Air Craft Design | 6/9/2014 & 7/9/2014 | Best Design |
| 2 | Dipti Nathu, Shivanjali | Exploration to Multisim | 2/01/2015 | Winner |

| | | | | |
|----|--|--|------------|------------------|
| | Thorat | | | |
| 3 | Yogesh Shivale, Mohit Naikade | Exploration to Multisim | 2/01/2015 | First runner up |
| 4 | Ajinkya Omble Rahul Ranjan | Exploration to Multisim | 2/01/2015 | Second Runner Up |
| 5 | Shubhangi Mahajan Pooja Nalawade Dipti Kulkarni | Kit fabrication (Techshastra) | 2/04/2015 | Winner |
| 6 | Joyti Pokharkar Sanjyot Kajale Sayali Gole | Kit fabrication (Techshastra) | 2/04/2015 | Runner Up |
| 7 | Sashikumar Sharma Adarsh Shukla | Electronica (Techshastra) | 02/04/2015 | Winner |
| 8 | Amruta Dudhal Shubhangi Chavan | Electronica (Techshastra) | 02/04/2015 | Runner Up |
| 9 | Sashikumar Sharma Adarsh Shukla Amol Tidke | IC Miniproject Competition (Techshastra) | 01/04/2015 | Winner |
| 10 | Vivek Gupta Manas Ranjan Mayur Kumbhar Prasanna Deshpande | IC Miniproject Competition (Techshastra) | 01/04/2015 | Runner Up |
| 11 | Dwivedi Avinash Dhirendra, Gaikwad Kimaya A. Gandhe Saurabh Nilay | BE Project Competition (Techshastra) | 01/04/2015 | Winner |
| 12 | Shah Aditya Amar Potghan Ajay Bhaskar Patil Pratik Prakash | BE Project Competition (Techshastra) | 01/04/2015 | Runner Up |
| 13 | Muaaz Bagban, Harshvardhan Kumbhar | Byte The Bit (Techshastra) | 01/04/2015 | Winner |
| 14 | Sarika Doke Soanli Hirve | Byte The Bit (Techshastra) | 01/04/2015 | Runner Up |
| 15 | Mayur Karkhile Pranav Kende | Mini Project Competition | 01/04/2015 | Winner |

| | | | | |
|-------------------|--|---|------------|-----------|
| | Balaji Gundale | (Techshastra) | | |
| 16 | Prashik Gavhande Ramesh Jangid Sagar Dhamale | Mini Project Competition (Techshastra) | 01/04/2015 | Runner Up |
| 17 | Saurabh Gandhe ,Pooja Bora Avinash Dwivedi | Papyrus - Paper Presentation Competition (Techshastra) | 01/04/2015 | Winner |
| 18 | Surabhi Kadam BhushanPaithan kar, PallaviKakade | Papyrus - Paper Presentation Competition (Techshastra) | 01/04/2015 | Runner Up |
| AY 2013-14 | | | | |
| 1 | Prajakta Surve | Matlab Madness (Techlignent) | 25/02/2014 | Winner |
| 2 | Bhushan Paithankar Surbhi Kadam | Matlab Madness (Techlignent) | 25/02/2014 | Runner Up |
| 3 | Harshwardhan Kumbhar Maaaj Bagban | Electronica (Techlignent) | 25/02/2014 | Winner |
| 4 | Sayali Shinde Ajay Gambhire | Electronica (Techlignent) | 25/02/2014 | Runner Up |
| AY 2012-13 | | | | |
| 1 | KassemSah Rohit Agrawal | Matlab Grazer (Techlignent) | 22/03/2013 | Winner |
| 2 | Sandeep Omprakash Avinash Kumar Dwivedi | Sort- O-Circuito (Techlignent) | 22/03/2013 | Winner |
| 3 | Akshay Deshmukh Maharudra Tarange | Sort- O-Circuito (Techlignent) | 22/03/2013 | Runner Up |
| 4 | Devendra Pokharkar Tushar Jamsutkar | Electrocraft (Techlignent) | 22/03/2013 | Winner |
| 5 | Neeta Mamgain Priyanka Patil | Electrocraft (Techlignent) | 22/03/2013 | Runner Up |
| 6 | Mayank Jain Peter Gaikwad PraneetaYeole | Technokruti Project Competition (Techlignent) | 22/03/2013 | Winner |

| | | | | |
|---|--|---------------------------------|--------------------------------|-----------------------|
| 7 | Deepali Wankhede Nikita Vaidya Shwetha Sasikumar | Poster Presentation Competition | 11/02/2013 to 15/02/2013 | Winner |
| 8 | SayaliNadhe SupriyaLakade | A Technical Poster Competition | 07/09/2012 | Winner |
| 9 | PranitaYevle, Mayank Jain and Peter Gaikwad | Poster Presentation Competition | 11/02/2013 to 15/02/2013 | 1 st Prize |

24. List of eminent academicians and scientists / visitors to the department

| Sr. No. | Name of Visitor | Institute / Organization | Date | Activity/ Program |
|---------|---------------------------|---|------------|---|
| 1 | Prof. A. K. Sisodiya | ISRO Ahmedabad | 21/03/2016 | Seminar |
| 2 | Shrikant Nimbalkar | SKF India Limited | 11/01/2016 | Project Competition |
| 3 | Vitthal Dhumal | SKF India Limited | 11/01/2016 | Project competition |
| 4 | Ronak Shah | Proton Training Solution | 11/01/2016 | To conduct interview |
| 5 | Ranjeet Kumar Singh | Nutan Infotronics (p) Ltd | 13/01/2016 | Seminar |
| 6 | Uday Shinde | Mahindra Truck & Bus Division | 23/02/2016 | Project & Consultancy opportunities |
| 7 | Sudarshan Mantri | Educate Automate (ETA) Pune | 16/03/2016 | Seminar |
| 8 | Mr. Mayur Deshmukh | Coreel LTD | 9/3/2016 | Seminar |
| 9 | Dr. Dipankar Nagchaudhari | Ex-Prof. IIT-Delhi, DAIICT Gandhinagar | 26/02/2016 | Speaker for Workshop |
| 10 | Mr Ketan Raut | Professor, VIIT, Pune | 26/02/2016 | Speaker for Workshop |
| 11 | Mr. Pankaj D.Gautam | Cadence Design System | 27/02/2016 | Speaker for Workshop |
| 12 | Mr. Amit Saini | Cadre Design Systems | 27/02/2016 | Speaker for Workshop |
| 13 | Mr. Nitin Paranjpe | Edutech Learning LTD | 27/02/2016 | Speaker for seminar on Internet of Things |
| 14 | Dr. Abhay M. Chopade | VITPune | 15/07/2015 | Speaker for workshop |
| 15 | Dr. Dhiren Dave | Dave Sr. Associate Professor, Tolani Marine Institute | 23/03/15 | Speaker for seminar |
| 16 | Praveen Vaidya | B&R Industrial Automation Ltd | 4/10/2014 | Speaker for seminar |

| | | | | |
|----|-------------------|------------------------------------|------------|-----------------------------------|
| 17 | Vishal Gorde | Volkswagen India Pvt Ltd | 29/11/2014 | Judge for for project competition |
| 18 | Rahul Wadkar | Schneider Eletronics India Pvt Ltd | 29/11/2014 | Judge for for project competition |
| 19 | Atul Gaikwad | Tata Motors | 9/06/2012 | Seminar |
| 20 | Aditya T.Ranbhare | Tech Mahindra, | 9/06/2012 | Workshop |
| 21 | Tushar Shitole | Electronics System & Devices | 9/06/2012 | Seminar |
| 22 | Ranjith R. | B&R Industrial Automation Ltd | 5/06/2012 | Seminar |
| 23 | Manoj Varghese | State Bank of India | 6/06/2012 | Seminar |
| 24 | Vaishali Kalekar | Phi.Energy Technologies pvt ltd | 17/07/2012 | Seminar |

25. Seminars/ Conferences/Workshops organized & the source of funding

a) National

b) International

| Sr. No. | Seminar/ workshop / guest lecture | Topic | Resource person | Date | National / International |
|------------------------------|-----------------------------------|---|--|---|----------------------------------|
| Academic Year 2015-16 | | | | | |
| 1 | Two days Workshop | Design & Simulation of low power integrated circuits using H-Spice at Deep Submicron technology | Dipankar Nagchaudhari, Pankaj D.Gautam | 26 th & 27 th Feb 2016 | 1,00,000/- BCUD, SPPU |
| 2 | FDP | Electronic Product Design | From SPPU | 11 th June to 13 th June 2015 | Savitribai Phule Pune University |

26. Student profile programme /course wise:

| Name of the Course/Programme | Academic Year | Applications received | Selected | Enrolled | | Pass percentage |
|--|---------------|--|----------|----------|-----|-----------------|
| | | | | *M | *F | |
| UG (Electronics and Telecommunication Engineering) | 2016-17 | Centralized admission Governed by DTE. | | 105 | 122 | NA |
| | 2015-16 | | | 117 | 119 | 95.76 |
| | 2014-15 | | | 115 | 101 | 99.53 |
| | 2013-14 | | | 82 | 67 | 97.99 |

*M = Male *F = Female

PG:

| Name of the Course / | Academic Year | Applications received | Selected | Enrolled | Pass Percent |
|----------------------|---------------|-----------------------|----------|----------|--------------|
|----------------------|---------------|-----------------------|----------|----------|--------------|

| Programme | | | | | age |
|--|---------|--|----|----|-------|
| PG (Electronics and Telecommunicati on Engineering) | 2016-17 | Centralized admission Governed by DTE. | 18 | 17 | NA |
| | 2015-16 | | 18 | 18 | 100 |
| | 2014-15 | | 18 | 16 | 100 |
| | 2013-14 | | 18 | 17 | 76.47 |

27. Diversity of Students

| Name of the Course/Programme | Name of the Course | % of students from the same state | % of students from other States | % of students From abroad |
|------------------------------|--------------------|-----------------------------------|---------------------------------|---------------------------|
| UG | 2015-16 | 93.08 | 6.91 | Nil |
| | 2014-15 | 88.64 | 11.35 | Nil |
| | 2013-14 | 97.31 | 2.68 | Nil |
| | 2012-13 | 94.62 | 5.37 | Nil |
| PG | 2015-16 | 100 | Nil | Nil |
| | 2014-15 | 100 | Nil | Nil |
| | 2013-14 | 100 | Nil | Nil |
| | 2012-13 | 100 | Nil | Nil |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

GATE-17; CAT/MBA-CET-14; Civil Services-01; GRE-19

| Exam | No of Students | | | |
|----------------|----------------|---------|---------|---------|
| | 2016-17 | 2015-16 | 2014-15 | 2013-14 |
| GATE | NA | 7 | 7 | 3 |
| Defence | NA | Nil | Nil | Nil |
| CAT/MBA-CET | NA | 2 | 11 | 1 |
| Civil Services | NA | Nil | Nil | 1 |
| GRE | 4 | 7 | 4 | 4 |

29. Student progression

| Student Progression | Against % enrolled | | | | |
|---------------------------------|--------------------|---------|---------|---------|---------|
| | 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| UG to PG | NA | 4 | 3 | 11 | 13 |
| PG to M.Phil | NA | | | | |
| PG to Ph.D | Nil | Nil | Nil | Nil | Nil |
| Ph.D to Post-Doctoral | NA | | | | |
| Employed | | | | | |
| • Campus Selection | 85 | 129 | 76 | 56 | 25 |
| • Other than campus recruitment | | 6 | 70 | 43 | 34 |
| Entrepreneurship/Self- | Nil | Nil | Nil | 1 | 1 |

| | | | | | |
|-------------------|-----|-----|-----|---|-----|
| Employment | | | | | |
| Government Sector | Nil | Nil | Nil | 1 | Nil |

30. Details of Infrastructural facilities

| Sr. No. | Infrastructural facilities | Details of items | Numbers |
|---------|---|---|---------------------------|
| 1 | Library | 1. Titles of books 2. Volumes 3. Journals 4. Project Reports | 1297 6899 27 350 |
| 2 | Internet facilities for Staff & Student | 1. Wi-Fi Connectivity in Campus 2. Very high speed Internet 3. Available bandwidth: 4. LAN Access speed: | 55Mbps 100Mbps |
| 3 | Classrooms | with ICT facility: 1. Under Graduate 2. Post Graduate | 06 01 |
| 4 | Tutorial Room | 1. Under Graduate | 01 |
| 5 | Laboratories | 1. Under Graduate 2. Post Graduate | 14 01 |

List of computing facilities available:

| Sr. No. | Name of the Computing facility | Quantity |
|---------|--------------------------------|---|
| 1 | Desktop Computers | 158 |
| 2 | Printers | 01 (Color Laser Printer), 09 (Laser), 03 (Dot matrix) |
| 3 | Scanner | 01 |
| 4 | All in One Printer | 01 |
| 5 | DVD Writer | 04 |
| 6 | Laptop | 02 |

List of major Equipments:

| Name of the Equipments/Instruments | | Quantity | Cost (Rs.) |
|------------------------------------|-------------|----------|------------|
| Dual Trace CRO | Aplab | 2 | 36000.00 |
| | Anshuman | 4 | 59292.00 |
| | Systronics | 3 | 71660.00 |
| | Scientific | 20 | 338625.00 |
| | Sciencetech | 22 | 378500.00 |
| | Hal-tech | 10 | 151200.00 |
| Function Generator | Adroit | 2 | 17068.00 |
| | Anshuman | 6 | 36234.00 |

| | | | |
|---|---------------------------|----|-----------|
| | Scientific | 21 | 184500.00 |
| | Scientech | 10 | 82950.00 |
| | GW-Instek | 20 | 220500.00 |
| Dual Power Supply | Testronix | 4 | 18240.00 |
| | Hitech | 50 | 349975.00 |
| | Radial | 10 | 65250.00 |
| Digital Multimeter | CE UNIT | 2 | 2700.00 |
| | Mastech | 46 | 66109.00 |
| | Rishabh | 1 | 3900.00 |
| | Vartech | 5 | 6706.00 |
| 6 ½ DMM | Fluke | 1 | 133650.00 |
| Spectrum Analyzer | HAMEG | 1 | 221375.00 |
| | Agilent | 1 | 596907.00 |
| | Rigol | 1 | 149100.00 |
| PC Based Spectrum Analyzer | Velleman | 1 | 43920.00 |
| DSO | HAMEG | 1 | 125125.00 |
| | Caddo | 3 | 177060.00 |
| | Agilent | 7 | 474973.00 |
| Logic Analyzer | Agilent | 1 | 211200.00 |
| Line Impedance Stabilization Network, Near Field Probe, Antenna | HAMEG | 1 | 123220.00 |
| PLC | B&R Industrial Automation | 1 | 256458.00 |
| Synthesized Arbitrary waveform generator/Noise Generator | Scientech Make | 1 | 135575.00 |
| IC Tester | Mechatronics | 1 | 72150.00 |
| Universal Programmer | Superpro | 1 | 31489.00 |
| | Busy bee | 1 | 64000.00 |
| Analog & Digital Oscilloscope | HAMEG | 1 | 125125.00 |
| DIP Lab | Wavelet Group | 1 | 315000.00 |
| Advanced PIC Trainer kits | Logsun Systems | 15 | 168750.00 |

List of major software:

| Name of the Software | Quantity | Cost (Rs.) |
|-----------------------------|-----------------|-------------------|
| MATLAB (2006a) | 25 Users | 1043509.00 |
| MATLAB-01 (2005) | 5 Users | 147280.00 |
| Microwind 3.5 | 15 Users | 425000.00 |
| Xilinx 5.2i | 1+9 Users | 209526.00 |
| Multisim 12 | 25 Users | 314000.00 |
| Multisim 2000 | 1 User | 83035.00 |
| Ultiboard 2000 | 1 User | 28882.00 |
| Code Composer studio | 1 User | 80000.00 |

| | | |
|--------------------|--------|-----------|
| (platinum edition) | | |
| Statistica 12.5 | 1 User | 117360.00 |

31. Number of students receiving financial assistance from college, university, government or other agencies

| Sr. No. | Details of financial assistance | Academic year/ No of students | |
|-----------------------|---------------------------------|-------------------------------|-----------|
| | | 2015-2016 | |
| | | Scholarship | Free ship |
| 1 | OBC | 25 | 106 |
| 2 | SC/ST | 1 | 44 |
| 3 | SBC | 13 | 7 |
| 4 | VJ/NT | 43 | 13 |
| 5 | TFWS | - | - |
| Total No. of Students | | 82 | 170 |

Students receiving financial assistance from other agencies:

| Sr. No. | Name of the student | Scholarship | Duration in Year | Scholarship Amount in Rs. |
|---------|------------------------|---------------------------|------------------|---------------------------|
| 1 | Ms. Archana M. Wabale | Lila Poonawala Foundation | 03 | 50,000/- |
| 2 | Ms. Ashwini N. Saste | Lila Poonawala Foundation | 03 | 50,000/- |
| 3 | Ms. Pooja Jadhav | Lila Poonawala Foundation | 03 | 40,000/- |
| 4 | Ms. Purva P. chindage | Lila Poonawala Foundation | 03 | 50,000/- |
| 5 | Ms. Prajal S. Takalkar | Lila Poonawala Foundation | 03 | 40,000/- |
| 6 | Ms. Minal S. Murkute | Lila Poonawala Foundation | 03 | 40,000/- |
| 7 | Ms. Prajal S. Takalkar | Persistent Foundation | 03 | 50,000/- |
| 8 | Ms. Sarita Wahile | Lila Poonawala Foundation | 03 | 50,000/- |
| 9 | Ms. Pooja Nalawade | Lila Poonawala Foundation | 03 | 35,000/- |
| 10 | Ms. Deepti Natu | Lila Poonawala Foundation | 03 | 40,000/- |

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Following table shows the details of guest lectures/expert talks/workshops/hands on training etc arranged for the students.

| Sr. No. | Seminar/ workshop / guest lecture | Topic | Resource person | Date |
|---------|-----------------------------------|-----------------------------------|-------------------------------|------------|
| 1 | Expert talk | Basics Of Satellite Communication | Dr. R. P. Borse (SAE Kondhwa) | 04/02/2016 |

| | | | | |
|----|-------------------|--|--|--------------------------|
| 2 | Workshop | Design And Simulation Of Low Power Integrated Circuits Using HPSICE At Deep Submicron Technology | Dr. Dipankar Nagchaudhari, Ex-Prof. IIT-Delhi | 26/02/2016 & 27/02/2016. |
| 3 | Hands on Training | Hands On Training On RF Planning | Mr. V. M. Dapurkar, RTTC, BSNL | 11/03/2016 |
| 4 | Expert talk | Industrial Sensors And Its Applications | Mr. Sudarshan Mantri (Project Manager) Educate Automate (ETA), | 16/03/2016 |
| 5 | Workshop | Workshop On Signal Processing | Mrs. Rajani. P.K, Mrs. S. P. Jagtap and Mrs. M. H. Murai | 30/03/2016 |
| 6 | Guest Lecture | Device Driver Of Embedded Systems | Mr. S.S. Pujari | 01/09/2015 |
| 7 | Expert Lecture | Understanding The Research Process From Problem Identification To Intellectual Property Rights | Dr. N. R. Deore, Dr. J. S. Umale | 09/09/2015 |
| 8 | Guest Lecture | Timing Tactics In Digital Design | Dr. Shaila Subbaraman | 10/10/2015 |
| 9 | Guest Lecture | ME, MYSELF & I, Self-Concept & Self Esteem | Dr. Anuja Johri | 20/10/2015 |
| 10 | Guest Lecture | Linux Operating System | Mrs. S. A. Gore | 26/10/2015 |
| 11 | Expert talk | Internet Of Things | Dr. G. S. Mani, Fellow IEEE | 30/12/2015 |
| 12 | Workshop | Antenna Design And Simulation | Mr. Dhananjay Magar, Ni2 designs, Pune | 20/02/2015 |
| 13 | Expert Talks | Recent Trends In Power Electronics (SMPS) | Mr. Shushant Vitonde, Olympus Power Electronics, Bhosari, Pune | 21/02/2015 |
| 14 | Expert Talks | Applications Of Embedded Processor | N. G. Palan, Cummins College of Engineering, Pune | 25/02/2015 |
| 15 | Hands on Training | Training On AUTOSAR And Automotive Electronics | Ms. Tracy Austina and Mr. Purushothaman Surendra from KPIT Technologies, Bangalore | 19/03/2015 to 22/03/2015 |
| 16 | Expert Talks | Advances In Control System: FSM Based PLC Ladder Diagram | Dr. Dhiren Dave, Tolani Maritime Institute, Pune | 23/03/2015 |
| 17 | Expert Talks | Project Opportunities Around FPGA | Prof. S. S. Pujari Director, IIT, Sambhalpur, Orrisa. | 02/08/2014 |
| 18 | Workshop | PLC Training | Mr. Amit Kumar and Mr. Himanshu Kumar | 11/08/2014 to 23/08/2014 |
| 19 | Workshop | Training Session On "WT-DIPLAB-1-0 Real Time Digital Image And Video Processing Board | Akshay kulkarni Ramkrishna Bodhula Wavelet group PvtLtd | 22/08/2014 |

| | | | | |
|----|-------------------|--|---|--------------------------|
| 20 | Expert Talks | Application Of Image Processing In Industries | Dr. Vishwas Udpikar from Wavelet Technologies Pune. | 28/08/2014 |
| 21 | Expert Talks | Invention By Design | Mr. Bhalchandra M. Gondhalekar | 13/09/2014 |
| 22 | Hands-on training | Hands-On Training On Industrial Automation (PLC & SCADA) | B&R automation | 26/12/2014 to 29/12/2014 |
| 23 | Expert Talks | Current Trends And Application Of Image Processing In Industry | Mr. Prakash Sanap, Professional | 30/12/2014 to 31/12/2014 |
| 24 | Seminar | Demonstration Of DSP Board WT-DIPLAB-1.0 | Wavelet Groups Pvt. Ltd. | 25/01/2014 |
| 25 | Seminar | Advances In Optical Fiber Communication | Mr. Waman Joglekar, Synergy India | 24/03/2014 |
| 26 | Seminar | Design Of On-Board Computer For The Nano-Satellite | Mr. Nishchay Mhatre | 17/09/2013 |
| 27 | Workshop | Laptop Repairing Workshop | BSW, UoP & Success Institute of Technology | 19/09/2013 to 21/09/2013 |
| 28 | Hands on Training | Gps Theory, Practices, Applications & Hands On Training | Dr. S. R. Jog | 21/09/2013 |
| 29 | Expert Talks | Expert Session On “ GUI Building Using Matlab” | Prof. M.M .Narkhede | 03/10/2013 |
| 30 | Workshop | STTP, “Training On Industrial Automation Products (PLC & SCADA)” | Mr. Amit Kumar Mr. Himanshu Kumar | 23/12/2013 to 28/12/2013 |
| 31 | Expert Talks | Technology Update In Industrial Ethernet | Mr.Ninad Deshpande (B&R automation pvt.Ltd) | 27/12/2013 |
| 32 | Seminar | Seminar On Mobile Phone Radiation And Hazards | Dr. S. R. Jog | 30/12/2013 |

33. Teaching methods adopted to improve student learning

Along with traditional teaching method, multiple innovative and interactive content delivery methods are adopted by the faculty to improve student learning. Few of the methods are as following:

- Lecture with interaction
- Quiz, Role-plays
- Group Discussion
- Demonstration through models, charts, videos..etc
- Case studies
- Mini Projects, Technical competitions/events
- Presentation
- Industrial Visit/Tours

- Hands –On Workshops, Seminars, Industrial automation trainings.
- Expert Talks
- Technical add-on courses.
- Tutorial classes
- Curriculum Gap & Beyond syllabus topics.
- Asynchronous Discussion

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

Department contributes in Institutional Social Responsibility through various Student oriented Programmes / Activities organized under ETSA, NSS, Art Circle Cell, ISR cell such as:

- Donated fund of Rs. 50,000/- to NAAM foundation to help drought affected farmers.
- Organized computer literacy program for under privileged student of Zilla Parishad School, Varali.
- Organized Social Study Visit at Hiware Bazaar on 6th March 2016.
- Along with ETSA students visited & donated grocery to Special Children Orphanage “TARA”.
- ETSA students under Art Circle Cell performed Charity show to help drought affected farmers.
- Cloth Donation
- Blood Donation
- Students volunteered at Ganpati Visarjaan to maintain cleanliness.
- Various activities conducted at village Yelase under one week NSS campaign: like health, education, pathnatya, civil projects & cleanliness awareness programme

35. SWOC analysis of the department and Future plans

Strengths:

- Accredited by NBA (Twice).
- All processes are standardized as per ISO 9001-2008
- Four pillar approach (I. Academics, II. Research, III. Professional development, IV. Social)
- Stringent Teaching Learning Process.
- Excellent Academic Results
- Excellent Placements
- Good number of patents filed by faculty & students.
- Good working environment, infrastructure and well equipped laboratories
- Good Industry Institute Interaction
- Qualified, experienced and committed faculty with good retention

- MOUs are signed with different industries.
- Students personal counseling for academic progress, career advancement and overall development is done throughout the semester.

Weaknesses:

- Flexibility in curriculum design
- Scope of improvement in quality consultancy work
- Participation in Sport & Cultural Activities at State & National Level

Opportunities:

- Starting Research Centre in the department may improve research component.
- Attracting more core industry for placement.
- Qualification upgradation of faculties and supporting staff.
- Publishing books and monographs.
- Alumni interaction for student development.
- Autonomy will give flexibility in bridging the curriculum gap.

Challenges:

- External funding for research.
- Competition and fluctuating market demand will affect quality inputs.
- Rapid changes in technology and time bound learning and training skills for the faculty.

Future Plans:

- To start Research Centre in the Department.
- To improve in the area of research and consultancy.
- To publish more number of quality papers in reputed conferences and journals like IEEE, Springer...etc.
- To add ME program in various specializations.
- To set up Centre of Excellence.
- To cultivate Research culture & thereby start consultancy work.

Evaluative Report of Computer Engineering Department

- 1 **Name of the department** : Computer Engineering
- 2 **Year of Establishment** : 2001
- 3 **Names of Programmes / Courses offered** : Bachelor of Computer Engineering
: Master of Computer Engineering

4. Names of Interdisciplinary courses and the departments / units involved

The programme follows the curriculum of Savitribai Phule Pune University (SPPU). The curriculum offers interdisciplinary courses. The list below mentions the interdisciplinary courses.

| Sr. No. | Department Name | Subject Offered |
|---------|------------------------------------|--------------------------------------|
| 1 | First Year Engineering | Engineering Mathematics III |
| 2 | Department of Computer Engineering | Digital Electronics and Logic Design |
| | | Microprocessor |
| | | Embedded Operating Systems |
| | | Digital Signal Processing |
| | | Embedded Security |

5. Annual/ semester/choice based credit system (programme wise):

B.E. (Computer Engineering): UG programme follows the semester based examination system. Credit System is introduced by SPPU from the academic year 2015-16 and hence it is implemented for First year and Second Year Engineering.

Final year students can choose elective subjects from the list of 16 electives. That are divided into four groups in two semesters on recent technologies such as cloud computing, mobile computing, web applications, Business Analytic and Intelligence and Cyber Security.

M.E. (Computer Engineering): PG program follows the Semester based Credit system. PG students choose elective subjects from the list of offered electives.

6. Participation of the department in the courses offered by other departments

| Sr. No. | Department Name | Subject Offered |
|---------|------------------------|---|
| 1 | First Year Engineering | Fundamentals of Programming Language–I |
| | | Fundamentals of Programming Language–II |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

| Sr. No. | Name of University / Industry/ Institute | Courses / Programs Offered |
|---------|--|---|
| 1 | KPIT Technologies | KPIT PACE Programme (Digital Transformation, Advanced Enterprise Solutions, SAP-ABAP) |
| 2 | ATS Infotech | Certificate programme in .NET, C# |
| 3 | Infosys Technologies | Campus Connect |
| 4 | Seed Infotech | Training on Aptitude and Soft Skills |
| 5 | Suman Technology | Big Data, Hadoop |
| 6 | IBM | Centre of Excellence |

8. Details of courses/programmes discontinued (if any) with reasons

NIL

9. Number of Teaching posts

| Title | Sanctioned | Filled |
|---------------------|------------|--------|
| Professor | 5 | 04 |
| Associate Professor | 9 | 02 |
| Assistant Professor | 26 | 34 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. / Ph.D. / M. Phil. etc.,)

Academic Year 2016-17

| Sr. No. | Faculty Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---------|-------------------------|--|-------------------------------|---|----------------------------|---|
| 1 | Prof. Dr. K. Rajeswari | Ph.D. (Comp) M.Tech (CSE). B.E (CSE) | Professor, HOD | Smart Systems | 19 | |
| 2 | Prof. Dr. J.S.Umale | Ph.D.(Comp), M.E.(Comp.) B.E.(Comp.) | Professor, Dean Academics, | High Performance & Scientific Computing | 24 | |
| 3 | Prof. Dr. A. D. Thakare | Ph.D (CSE), M.E. (Comp), B.E.(CSE) | Professor | Data Science & Knowledge Engineering. | 16.9 | |
| 4 | Prof. Dr. Pravin Futane | PhD (CSE), | Professor | Visual Computing. | 19 | |
| 5 | Prof. Dr. S. D. Patil | Ph.D. (Comp), M.E. (Comp), B.E.(Comp), | Associate Professor | Networking & Communicati | 13 | |

| | | | | | | |
|----|---------------------|--------------------------------|----------------------|---------------------------------------|------|--|
| | | | | on. | | |
| 6 | Prof. S. S. Sambare | M.E. (Comp), B.E.(Comp) | Associate Professor, | Networking & communication | 23.2 | |
| 7 | Prof. R. S. Kharat | M.Tech. (CSE), B.E.(Comp), | Assistant Professor | Networking & Communication | 14 | |
| 8 | Mrs. B. Mahalakshmi | M.E. (Comp) , B.Tech. (CSE) | Assistant Professor | Visual Computing. | 13 | |
| 9 | Mrs. A. S. Kadam | M.E (Comp), B.E. (CSE), | Assistant Professor | Data Science & Knowledge Engineering. | 10.1 | |
| 10 | Mrs. S. R. Vispute | M.E (Comp), B.E.(Comp) | Assistant Professor | Data Science & Knowledge Engineering. | 11.3 | |
| 11 | Mrs. S. V. Pede | M.E (Comp), B.E. (Comp) | Assistant Professor | Visual Computing. | 10 | |
| 12 | Mrs. Deepa Abin | M.E (Comp), B.E.(Comp), | Assistant Professor | Visual Computing. | 12 | |
| 13 | Mrs. A. R. Londhe | M.E. (Comp), B.E.(Comp) | Assistant Professor | Data Science & Knowledge Engineering. | 13 | |
| 14 | Mrs. H. R. Mhaske | M.E.(Comp), B.E.(Comp) | Assistant Professor | Visual Computing. | 8.2 | |
| 15 | Mr. A. S. Birajdar | M.E.(Comp), B.E.(Comp) | Assistant Professor | Information Management | 8 | |
| 16 | Mr. G. S. Deshmukh | ME(Comp), BE(Comp) | Assistant Professor | Networking & Communication | 6.3 | |
| 17 | Mrs. S. S. Gudadhe | ME(Comp), BE(Comp) | Assistant Professor | Data Science & Knowledge Engineering. | 9 | |
| 18 | Mrs. R. S. Hirawane | M.Tech (IT), BE (Comp) | Assistant Professor | Information Management | 6 | |
| 19 | Mr. V. H. Wagh | M. Tech (CSE), BE(Comp) | Assistant Professor | Smart Systems | 4 | |
| 20 | Mrs. Shweta | ME (Comp) | Assistant Professor | Visual Computing. | 10 | |

| | | | | | | |
|----|-----------------------|--------------------------|---------------------|--|-----|--|
| | Koparde | | | | | |
| 21 | Mrs. Meghana Lokhande | MTech (Comp), | Assistant Professor | Networking & Communication | 8 | |
| 22 | Mrs. Namrata Gawande | MTech (Comp) | Assistant Professor | Visual Computing. | 6 | |
| 23 | Mr. Sagar Salunke | ME (Comp) | Assistant Professor | Networking & Communication | 5.4 | |
| 24 | Mr. Rahul Pitale | ME (Comp) | Assistant Professor | Smart Systems | 3.2 | |
| 25 | Ms. Madhura Kalbhor | ME (Comp) | Assistant Professor | Visual Computing. | 1 | |
| 26 | Ms. Swati Chandurkar | M.Tech(CSE) | Assistant Professor | Data Science & Knowledge Engineering. | 9 | |
| 27 | Ms. Priya Ithape | ME (IT) | Assistant Professor | Visual Computing. | 2 | |
| 28 | Mr. R. A. Patil | M.E.(Comp), B.E. (IT) | Assistant Professor | Data Science & Knowledge Engineering. | 11 | |
| 29 | Mr. S. R. Kokate | M.E. (Comp), B.E. (Comp) | Assistant Professor | Networking & communication | 10 | |
| 30 | Mr. S. K. Hule. | M.E. (IT), B.E.(Comp) | Assistant Professor | High Performance & Scientific Computing. | 7 | |
| 31 | Mrs. Pallavi Dhade | ME (Comp), BE (IT) | Assistant Professor | Networking & communication | 9 | |
| 32 | Mr. A. G. Pawar | M.E.(IT), B.E.(IT) | Assistant Professor | Communication And Networking, | 5.5 | |
| 33 | Mr. Rajesh Lomate | ME(CSE) | Assistant Professor | Networking & communication | 5 | |
| 34 | Mrs. Smita Khairnar | ME (Comp), BE(Comp) | Assistant Professor | Smart Systems | 6 | |
| 35 | Mr. Kapil Tajane | ME (Comp) | Assistant Professor | High Performance & Scientific | 4 | |

| | | | | | | |
|----|---------------------|-------------------------|---------------------|---------------------------------------|------|--|
| | | | | Computing. | | |
| 36 | Mr. Ketan Desale | ME (Comp N/W) | Assistant Professor | Data Science & Knowledge Engineering. | 3.1 | |
| 37 | Ms. Smita Landge | ME(Comp) | Teaching Assistance | Visual Computing. | 0.8 | |
| 38 | Ms. Rupali Bhondave | ME (Comp) | Assistant Professor | Visual Computing. | 0.8 | |
| 39 | Prof. S. A. Gore | M.E.(Comp), B.E.(Comp) | Assistant Professor | Visual Computing. | 12.5 | |
| 40 | Mrs. P. A. Surana | M.E (Comp) B.E.(Comp) | Assistant Professor | Data Science & Knowledge Engineering. | 11.5 | |

11. List of senior visiting faculty

| Sr. No. | Academician / Industry Person | Designation | Industry/ Institute |
|---------|-------------------------------|------------------------|------------------------------|
| 1. | Prof. A.M. Kurkure | Adjunct Professor | PCCOE, Pune |
| 2. | Prof. Vivek D. Kulkarni | Chief Architect | Persistent Ltd |
| 3. | Mr. Santosh Mugalikar | CEO | Creospan Solutions PVT.Ltd |
| 4. | Prof. Shrinivas Gadage | Director | ALKON SYS Consultancy, Pune |
| 5. | Prof. Sudhir B. Pawar | Lead Software Engineer | Intelizign Engineer Services |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Nil (No temporary faculty is recruited in the department).

13. Student -Teacher Ratio (programme wise)

Academic Year: 2016-17

| Program | Student Ration |
|----------------|----------------|
| Under Graduate | 15:1 |
| Post Graduate | 12:1 |

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

| Title | Sanctioned | Filled |
|-------------|------------|--------|
| Dept. Clerk | 1 | 1 |

| | | |
|----------------------|---|---|
| Technical Assistant | 1 | 1 |
| Laboratory assistant | 9 | 9 |
| Laboratory Attendant | 1 | 1 |
| Peon | 2 | 2 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| Qualification | Number of Teaching Faculty |
|---------------|----------------------------|
| PhD | 5 |
| ME / MTech | 35 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

Computer engineering department inculcates research culture among the faculty and students through various initiatives such as incubation centre, special interest groups and student projects.

Faculty members are taking sufficient efforts in preparing and submitting the proposals to various funding agencies.

The following table shows the details of grants received for the research projects.

| Funding Agency | Number of Projects | | | |
|------------------|--------------------|---------|---------|---------|
| | 2016-17 | 2015-16 | 2014-15 | 2013-14 |
| a) National | 2 | 2 | 2 | NIL |
| b) International | NIL | NIL | NIL | NIL |

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

| Sr. No. | Academic Year | Faculty Name | Title of the Project | Funding Agency | Grants Received |
|---------|---------------------|-------------------|--|----------------|-----------------|
| 1 | 2015-16, 2016-17 | Dr. J.S. Umale | To analyze human emotion & body signal to predict suitable therapy for depression recovery | SPPU, Pune | 40, 000/- |
| 2 | 2015-16, 2016-17 | Prof. Rahul Patil | Data Mining Hybrid Approach for prediction at critical illness | SPPU, Pune | 37, 000/- |

18. Research Centre /facility recognized by the University

Recently research committee from SPPU has visited the department for grant of research centre. Result is awaited.

19. Publications:

| Sr. No. | Name of the Faculty | No. of Papers published |
|---------|-------------------------|-------------------------|
| 1 | Prof. Dr. K. Rajeswari | 49 |
| 2 | Prof. Dr. J.S.Umale | 16 |
| 3 | Prof. Dr. A.D. Thakare | 40 |
| 4 | Prof. Dr. Pravin Futane | 49 |
| 5 | Prof. S. S. Sambare | 42 |
| 6 | Prof. Dr. S. D. Patil | 43 |
| 7 | Prof. R. S. Kharat | 13 |
| 8 | Prof. S. S. Deshmukh | 16 |
| 9 | Prof. S. A. Gore | 15 |
| 10 | Mrs. B. Mahalakshmi | 07 |
| 11 | Mrs. A. S. Kadam | 08 |
| 12 | Mrs. S. R. Vispute | 13 |
| 13 | Mrs. S. V. Pede | 07 |
| 14 | Mr. R. A. Patil | 18 |
| 15 | Mrs. Deepa Abin | 12 |
| 16 | Mrs. P. A. Surana | 04 |
| 17 | Mrs. A. R. Londhe | 06 |
| 18 | Mrs. H. R. Mhaske | 04 |
| 19 | Mr. S. R. Kokate | 10 |
| 20 | Mr. S. K. Hule | 05 |
| 21 | Mr. A. G. Pawar | 03 |
| 22 | Mrs. Rajasree R.S. | 06 |
| 23 | Mrs. Pallavi Dhade | 03 |
| 24 | Mr. G. S Deshmukh | 05 |
| 25 | Mrs. Smita Khairnar | 07 |

| | | |
|----|-----------------------|----|
| 26 | Mrs. S. S Gudadhe | 07 |
| 27 | Mrs. R. S. Hirawane | 02 |
| 28 | Mr. V. H. Wagh | 0 |
| 29 | Mrs. Shweta Koparde | 01 |
| 30 | Mrs. Meghana Lokhande | 01 |
| 31 | Mrs. Namrata Gawande | 04 |
| 32 | Mr. Rajesh Lomate | 06 |
| 33 | Ms. Madhura Kalbhor | 02 |
| 34 | Mr. Sagar Salunke | 05 |
| 35 | Mr. Kapil Tajane | 18 |
| 36 | Mr. Rahul Pitale | 16 |
| 37 | Mr. Ketan Desale | 07 |
| 38 | Ms. Swati Chandurkar | 02 |
| 39 | Ms. Priya Ithape | 01 |
| 40 | Ms. Minal Bodke | 02 |
| 41 | Ms. Rupali Bhondave | 02 |

- *Number of papers published in peer reviewed journals (national / international) by faculty and students*

| Acad Year | National Publication | | International Publication | | Total |
|-----------|----------------------|------------|---------------------------|------------|-------|
| | Journal | Conference | Journal | Conference | |
| 2016-17 | NIL | NIL | 21 | 26 | 47 |
| 2015-16 | NIL | 02 | 65 | 11 | 78 |
| 2014-15 | NIL | NIL | 65 | 31 | 96 |
| 2013-14 | NIL | NIL | 37 | 27 | 64 |
| 2012-13 | NIL | NIL | 40 | 13 | 53 |

The following table summarizes the publications listed in International Database

| Sr. No. | Name of the Faculty | Google Scholar | Scopus | EBSCO host | Total | No. of Citations | h-index |
|---------|------------------------|----------------|--------|------------|-------|------------------|---------|
| 1 | Prof. Dr. K. Rajeswari | 57 | 6 | 0 | 57 | 151 | 7 |

| | | | | | | | |
|----|-------------------------|----|----|---|----|----|---|
| 2 | Prof. Dr. J.S.Umale | 16 | 9 | 0 | 16 | 15 | 3 |
| 3 | Prof. Dr. A.D. Thakare | 26 | 11 | 0 | 4 | 9 | 2 |
| 4 | Prof. Dr. Pravin Futane | 9 | 1 | 0 | 9 | 0 | 0 |
| 5 | Prof. S. S. Sambare | 36 | 5 | 0 | 36 | 26 | 3 |
| 6 | Prof. Dr. S. D. Patil | 41 | 7 | 6 | 39 | 53 | 3 |
| 7 | Prof. R. S. Kharat | 8 | 4 | 1 | 8 | 10 | 2 |
| 8 | Prof. S. S. Deshmukh | 13 | 3 | 2 | 13 | 9 | 1 |
| 9 | Prof. S. A. Gore | 0 | 0 | 0 | 0 | 4 | 1 |
| 10 | Mrs. A. S. Kadam | 6 | 1 | 0 | 6 | 4 | 1 |
| 11 | Mrs. S. R. Vispute | 5 | 0 | 0 | 5 | 5 | 2 |
| 12 | Mrs. S. V. Pede | 4 | 1 | 0 | 4 | 4 | 1 |
| 13 | Mr. R. A. Patil | 6 | 0 | 0 | 6 | 3 | 1 |
| 14 | Mrs. Deepa Abin | 8 | 3 | 0 | 8 | 8 | 2 |
| 15 | Mrs. P. A. Surana | 2 | 0 | 0 | 0 | 0 | 2 |
| 16 | Mrs. A. R. Londhe | 4 | 0 | 0 | 4 | 2 | 1 |
| 17 | Mrs. H. R. Mhaske | 1 | 1 | 0 | 1 | 1 | 1 |
| 18 | Mr. S. R. Kokate | 10 | 0 | 0 | 0 | 12 | 3 |
| 19 | Mr. A. G. Pawar | 4 | 0 | 0 | 4 | 4 | 0 |
| 20 | Mrs. Pallavi Dhade | 5 | 0 | 0 | 5 | 4 | 1 |
| 21 | Mr. G. S Deshmukh | 6 | 0 | 0 | 4 | 1 | 1 |
| 22 | Mrs. Smita Khairnar | 8 | 4 | 1 | 8 | 18 | 3 |
| 23 | Mrs. S. S Gudadhe | 5 | 3 | 0 | 8 | 1 | 1 |
| 24 | Mrs. R. S. Hirawane | 4 | 0 | 0 | 0 | 4 | 3 |
| 25 | Mr. V. H. Wagh | 1 | 0 | 0 | 0 | 1 | 1 |
| 26 | Mrs. Shweta Koparde | 3 | 0 | 0 | 3 | 0 | 0 |
| 27 | Mrs. Meghana Lokhande | 3 | 0 | 0 | 3 | 4 | 1 |
| 28 | Mrs. Namrata Gawande | 4 | 0 | 0 | 4 | 0 | 0 |
| 29 | Mr. Rajesh Lomate | 2 | 0 | 0 | 2 | 0 | 2 |
| 30 | Ms. Madhura Kalbhor | 7 | 0 | 0 | 7 | 11 | 2 |
| 31 | Mr. Sagar Salunke | 4 | 0 | 0 | 4 | 0 | 0 |
| 32 | Mr. Kapil Tajane | 16 | 5 | 5 | 16 | 35 | 4 |
| 33 | Mr. Rahul Pitale | 14 | 4 | 4 | 14 | 22 | 2 |
| 34 | Mr. Ketan Desale | 7 | 2 | 0 | 7 | 11 | 2 |
| 35 | Ms. Swati Chandurkar | 8 | 1 | 0 | 8 | 22 | 1 |
| 36 | Priya Ithape | 6 | 0 | 0 | 6 | 1 | 1 |
| 37 | Ms. Smita Landge | 2 | 0 | 0 | 2 | 0 | 0 |
| 38 | Ms. Rupali Bhondave | 2 | 4 | 0 | 4 | 8 | 2 |

- **Monographs -NIL**
- **Chapter in Books – 08**

| Sr. No. | Name of the Author | Book Name | Publisher | ISBN/ISSN no. |
|---------|--------------------|---------------------------|-----------|-------------------|
| 1 | Reena Kharat | Security in Computing and | Springer | 978-981-10-2738-3 |

| | | | | |
|---|------------------|---|----------|-------------------|
| 2 | Reena Kharat | Communications Security in Computing and Communications | Springer | 978-981-10-2738-3 |
| 3 | Rahul Pitale | Emerging Research in Computing, Information, Communication and Applications | Springer | 978-81-322-2549-2 |
| 4 | Kapil Tajane | Emerging Research in Computing, Information, Communication and Applications | Springer | 978-81-322-2549-3 |
| 5 | Dr.Sonali Patil | Emerging Research in Computing, Information, Communication and Applications | Springer | 978-81-322-2549-4 |
| 6 | Dr. Sonali Patil | Recent Trends in Engineering & Technology | Elsevier | 978-93-5107-220-1 |
| 7 | Dr. Sonali Patil | Recent Trends in Engineering & Technology | Elsevier | 978-93-5107-220-1 |
| 8 | Dr. A.D. Thakare | Advances in Intelligent Systems and Computing | Springer | 978-3-319-11218-3 |
| 9 | Reena Kharat | Advances in Intelligent Systems and Computing | Springer | 978-81-322-1664-3 |

- **Books Edited- NIL**
- **Books with ISBN/ISSN numbers with details of publishers – 02**

| Sr. No. | Name of the Author | Book Name | Publisher | ISBN/ISSN no. |
|---------|----------------------------|---|---------------------|-------------------|
| 1 | Kapil Tajane, Rahul Pitale | Digital Signal Processing & Application | Success Publication | 978-981-10-2738-3 |

- **Source Normalized Impact per Paper (SNIP) – 05**

| Sr. No. | Academic Year | Name of Faculty | Name of Journal / Conference | Source Normalized Impact per Paper (SNIP) |
|---------|---------------|-----------------|--------------------------------------|---|
| 1 | 2013-14 | Dr. K Rajeswari | Research Journal of Applied Sciences | 0.308 |
| 2 | 2016-17 | Dr. K Rajeswari | IJCTA | 1.466 |
| 3 | 2016-17 | Reena Kharat | SSCC' 2016 | 0.169 |
| 4 | 2016-17 | Reena Kharat | SSCC' 2016 | 0.169 |
| 5 | 2016-17 | Reena Kharat | IJCTA | 1.466 |

- **SCImago Journal Rank (SJR) –**

| Sr. No. | Academic Year | Name of Faculty | Name of Journal / Conference | SCImago Journal Rank (SJR) |
|---------|---------------|-----------------|--|----------------------------|
| 1 | 2013-14 | K Rajeswari | Research Journal of Applied Sciences | 0.15 |
| 2 | 2013-14 | H R Mhaske | International Conference on Circuits, Controls and Communications, CCUBE 2013 | 0.1 |
| 3 | 2015-16 | Rupali Bhondave | International Conference on Communication, Information & Computing Technology (ICCICT) | 0.1 |
| 4 | 2015-16 | Smita Chavan | 11th IEEE India Conference: Emerging Trends and Innovation in Technology, INDICON 2014 | 0.16 |
| 5 | 2015-16 | Smita Chavan | Proceedings of the 2013 International Conference on Advances in Computing, Communications and Informatics, ICACCI 2013 | 0.16 |
| 6 | 2016-17 | Reena Kharat | SSCC' 2016 | 0.15 |
| 7 | 2016-17 | Reena Kharat | SSCC' 2016 | 0.15 |
| 8 | 2016-17 | Reena Kharat | IJCTA | 0.526 |
| 9 | 2016-17 | K Rajeswari | IJCTA | 0.526 |

20. Areas of consultancy and income generated

- Consultancy work has been initiated in our department through different U.G and P.G sponsored projects viz., Persistent, NCL, DRDO etc.
- Research proposals have been submitted to various agencies and some grants have been received.

21. Faculty as members in

| Sr.No. | Committee | No. of Faculty |
|--------|---------------|----------------|
| 1 | International | Nil |
| 2 | National | Nil |
| 3 | Editorial | 04 |

| Sr. No. | Name of the Faculty | Editorial Boards | Duration |
|---------|---------------------|--|-----------|
| 1 | Dr. J.S Umale | International Journal of Computer Engineering & Technology | Life Time |
| 2 | Dr. Pravin Futane | Journal of Advanced Research | Life Time |

| | | | |
|---|------------------|--|--------------------------|
| 3 | Dr. Sonali Patil | IJCSA | Life Time |
| 4 | Mr. Kapil Tajane | International Journal of Computer Engineering & Technology | 05/01/2016 to 31/12/2016 |

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme

| Acad Year | In House Projects (%) | |
|-----------|-----------------------|-------------------|
| | Department | Interdisciplinary |
| 2016-17 | 80.7% | 8.77% |
| 2015-16 | 50% | 17.8% |
| 2014-15 | 84.62% | 2.56% |

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies

| Acad Year | Industry /Research Laboratory /Others |
|-----------|---------------------------------------|
| 2016-17 | 10.52% |
| 2015-16 | 32.20% |
| 2014-15 | 12.82 % |

23. Awards / Recognitions received by faculty and students

Students participate and win awards and laurels in various co-curricular and extracurricular activities and competitions organized at departmental level, inter College level and also at University level.

Faculties are recognized at different levels such as Panel members of International Bodies, Session Chairs, Paper reviewers, Subject Chairman's and as mentors of qualitative projects. The details are as follows:

| Sr. No | Name of Faculty / Student | Awards / Recognition | Academic Year | Institute / Organization |
|--|---------------------------|---|---------------|--------------------------|
| Awards / Recognitions received by Faculty | | | | |
| 1 | Mr. Kapil Tajane | International Software Testing Qualifications Board (ISTQB) Certification | 2016-17 | German Board |
| 2 | Mr. Rajesh Lomte | Resource Person for "Principles of | 2016-17 | RMDSOE |

| | | | | |
|---|-------------------------|--|---------|---|
| | | Modern Compiler Design” | | |
| 3 | Mr. Rahul. R. Pitale | International Software Testing Qualifications Board (ISTQB) Certification | 2016-17 | German Board. |
| 4 | Mrs .Sushma R. Vispute | Manuscript Reviewer | 2016-17 | IEEE Journal of Biomedical & Health Informatics 2016 |
| 5 | Dr. Prof. Sonali Patil | Copyright for Diary Number: 11705/2015-CO/L, Title: Multifarious Secret Sharing with Augmented Capabilities | 2016-17 | Govt. of India |
| | | Resource person for one day Workshop on “Advances in Object Oriented Concepts” | | G. H. Rasoni College of Engineering and Management, Wagholi, Pune |
| 6 | Prof. Dr. K. Rajeswari | Expert for “Regional Research Conference Innovation.” | 2015-16 | DYPIoEMR Akurdi |
| | | Convenor | | cPGCON 2016 |
| | | Session Chair | | cPGCON 2016 |
| | | Expert talk on “Object Oriented Programming” | | VIT, Pune |
| 7 | Prof. Dr. J. S. Umale | R&D project funded | 2015-16 | BCUD , SPPU |
| | | Resource person in FDP on “High Performance Computing” for BE Comp. 2012 course. | | MIT COE, under SPPU |
| | | Session Chair | | cPGCON 2016 |
| | | Track Chair | | cPGCON 2016 |
| 8 | Prof. Dr. A. D. Thakare | Filed a patent “A system and method for detecting the health condition of an individual” (Application Number: 20162101179) | 2015-16 | |
| | | Filed Copyright “Web application for virtual Trial Room for sari”(Diary Number 3959/2016-CO/SW) | | Govt. of India |
| 9 | Mrs. R. S. Kharat | Session Co-chair | 2015-16 | cPGCON-2016 |

| | | | | |
|----|---------------------|---|---------|---|
| | | Certification "MATLAB Programming for Numerical Computation" | | NPTEL |
| | | Certification "Introduction to Research" | | NPTEL |
| 10 | Prof. S. S.Deshmukh | Patent Filed on "Method for Hotspot Based Calling and Messaging in Zero Balance Mobile Phones"(Application Number: 201621007514 A) | 2015-16 | |
| | | Resource person for "FDP on Computer Laboratoty-1" | | G.H Rasoni Institute of Engineering and Technology, Wagholi |
| | | Speaker for "Logic Development and problem solving" | | Zeal COE |
| | | Expert Talk on "Computer Network Design and Modeling." | | G.H Rasoni Institute of Engineering and Technology, Wagholi |
| 11 | Mrs. S. A. Gore | Online Certification examination for the course " Introduction to Machine Learning" | 2015-16 | NPTEL |
| | | Applied for Copyright "Design of data management and prediction about Health status to support health care system using QR code" (Diary Number 5003/2016-CO/SW) | | Govt. of India |
| 12 | Dr. Sonali Patil | Filed a patent on "Implementation of Secure Bank Locker System Using Secure Secret Sharing Scheme and FPGA". (Application Number 4140/MUM/2015) | 2015-16 | Govt. of India |
| | | Session Chair at VIIT for national conference | | VIIT |
| | | Session Chair national conference | | RSCOE |
| | | Delivered expert talk on "Mathematical Model " | | AISSMS, Pune |

| | | | | |
|----|--------------------|--|-----------|---|
| 13 | Mrs. S. R. Vispute | Track chair and Session chair | 2015 - 16 | cPGCON-2016 |
| | | Online Certification examination for the course “ Introduction to Machine Learning” | | NPTEL |
| | | Awarded wit “A” Grade in FEP on “Big Data & Analytics ” | | Infosys Ltd, Pune. |
| 14 | Mrs. S.V. Pede | Applied for Copyright “Smart Lock: Locking system using Bluetooth Technology & Camera verification” (Diary Number 3962/2016-CO/SW) | 2015-16 | Govt. of India |
| | | Resource person for workshop on QT | | DYPCOE Akurdi |
| 15 | Mr. R. D. Deokar | Filed a Patent on” Traffic Management using wireless transmitter and control device” (Application Number: 4616/MUM/2015) | 2015-16 | Govt. of India |
| 16 | Mr. R. A. Patil | R&D Project | 2015-16 | BCUD under SPPU |
| 17 | Mrs. Priya Surana | Filed a Copyright “Development of Android App for Real Traffic and Traffic Prediction using Data Mining Techniques” (Diary Number 5033/2016-CO/SW) | 2015-16 | Govt. of India |
| 18 | Mrs. Deepa Abin | ”Filed a Copyright “ Secure communication between Vehicle for safe traffic flow” (Diary Number 3953/2016-CO/SW) | 2015-16 | Govt. of India |
| | | Filed a Patent on “A quick Remote file access gadget.(Application Number: 201621015181) | | Govt. of India |
| 19 | Mrs. A. R. Londhe | Online Certification courses “Introduction to Research” and “Programming : Data Structures and Algorithms” | 2015-16 | NPTEL |
| 20 | Mr. S. K. Hule. | Resource Person for the Short Term Training Program (STTP) on “Big Data and Hadoop” | 2015-16 | Usha Mittal Institute of Technology , SNDT Women's University, Mumbai |

| | | | | |
|----|------------------------|---|---------|----------------|
| 21 | Mrs. Rajasree R.S. | Resource person for one day workshop on QT | 2015-16 | DYPCOE Akurdi |
| | | Filed copyright for title “Intelligent parking management system”(Diary Number | | Govt. of India |
| 22 | Ms. S. S. Gudadhe | Resource Person for “ARAMBHA 2016 Technical Event” | 2015-16 | BVCOE Lavale |
| | | Resource Person on “Microprocessor and Interfacing Technology “ | | BVCOE Lavale |
| | | Filed a patent “ A system and method for detecting the health condition of an individual” (Application Number: 20162101179) | | Govt. of India |
| | | Filed Copyright on “Digiboard- A personalized notice board”(Diary Number 3969/2016-CO/SW) | | Govt. of India |
| | | Filed Copyright “Web application for virtual Trial Room for sari”(Diary Number 3959/2016-CO/SW) | | Govt. of India |
| 23 | Prof. Sonali Tidke | Patent filed “SMART CARD BASED INTELLIGENT NOTICE BOARD” (Application Number:201621005841) | 2015-16 | Govt. of India |
| | | IPR filed “ Detection of SMS based Malware for Android operating system” (Diary Number 3815/2016-CO/SW) | | Govt. of India |
| 24 | Prof. Meghana Lokhande | Patent filed “SMART CARD BASED INTELLIGENT NOTICE BOARD”(Application Number:201621005841) | 2015-16 | Govt. of India |
| | | Filed IPR along with students for Project Title “ Personalized e-Learning” (Diary Number | | Govt. of India |

| | | 4196/2016-CO/SW) | | |
|---|--|--|----------------------|--|
| 25 | Mrs. Pallavi Dhade | Resource Person for “Programming Laboratory-IV” | 2015 - 16 | BVCOE, Lavale |
| 26 | Mr. Sudarshan S. Deshmukh | Expert talk on “Design and Analysis of Algorithms” on (2nd August 2015) | 2015-16 | RMD Sinhgad COE, Pune |
| 27 | Mrs . B Mahalakshmi | Workshop “Computer Lab-I” | 2015-16 | GHRIET, Pune |
| 28 | Prof. S. Sambare | Evaluator | 2015-16 | "UGCON-2016" NMIET, Talegaon |
| | | Session Chair | | DYP, Akurdi |
| 29 | Mrs . S. A. Koparde | IPR on “Assessment of student understanding using concept maps” | 2015-16 | Govt. of India |
| 30 | Mrs . S. A. Koparde | IPR on “Battery Discharge Prediction Using Data Mining Based On Usage Pattern” | 2015-16 | Govt. of India |
| Awards / Recognitions received by students | | | | |
| Sr. No | Name of Student | Awards / Recognition | Academic Year | Institute / Organization |
| 1 | Prachi Tekawade | First Winner of ACM-W National Level Lady Ada Contest | 2016-17 | ACM |
| 2 | Shivani Junavane | Secured 8th place in ACM-W National Level Lady Ada Contest | 2016-17 | ACM |
| 3 | Sunny Shah | Microsoft Certification | 2016-17 | Microsoft |
| 4 | Laveena Soni | Digital India-Presentation | 2015-16 | ACM |
| 5 | Nikhil Londhe Vishwamohini Kumbhar Neha Kuvlekar Tanaya Salunke | Winner - Project Competition | 2015-16 | PES Modern College of Engineering Pune |
| 6 | Uday Hajare | Code Storm | 2015-16 | RSCOE |
| 7 | Dhananjay Gawari | Pic the Hint | 2015-16 | RSCOE |
| 8 | Vishwamohini Kumbha | Pic the Hint | 2015-16 | RSCOE |
| 9 | Jayesh Amodkar | Pic the Hint | 2015-16 | RSCOE |
| 10 | Rohan Rao | Quiz-A-Bate of "Electronova 2K16” | 2015-16 | Department of E&TC, PCCOE |
| 11 | Ahishek Ratnaparki | Football (men) “Pune District Sports Zone” | 2015-16 | Savitribai Phule Pune University |
| 12 | Ahishek Ratnaparki | FootBall“Zeal Ranaangan 2015 state level Inter collegiate sports Tournament” | 2015-16 | Zeal Education Society |
| 13 | Tejal Rajput | Technovanza, National level event | 2015-16 | VJTI |
| 14 | Abdul Wasay, Chandan | | 2015-16 | Computer |

| | | | | |
|----|--|--|---------|--|
| | Singh, Ankush Pathak, Patil Atul | CPGCON 2016 | | Dept,PCCOE |
| 15 | Chaitanya Kulkarni | Crypt-text | 2015-16 | PCCOE,Pune |
| 16 | Sunny Shah | Snap Hunt | 2015-16 | PCCOE,Pune |
| 17 | Vaishnavi Dighe | Poster presentation, Trace -O-Line (E&Tc) | 2015-16 | PCCOE |
| 18 | Aniket Chimurkar | Badminton University, Satej Karandak , | 2015-16 | Lohagoan Akurdi(DYP) |
| 19 | Rohit Dhawale | Min to Win Developer training of Apache Hadoop | 2015-16 | PCCOE |
| 20 | Yogini Kale | Technical rangoli (Civil) poster presentation minute to win | 2015-16 | PCCOE |
| 21 | Madhuri Gawade | Technical rangoli (Civil) poster presentation minute to wi | 2015-16 | PCCOE |
| 22 | Vinayak Dixit | Code-e-Azam, Appstruct | 2015-16 | PCCOE, D Y Patil Akurdi |
| 23 | Ekta Wason | Brand Bazar | 2015-16 | D.Y.Patil Pimpri |
| 24 | Atmaja S. | Funny Bones | 2015-16 | PCCOE.Dept.of IT |
| 25 | Pooja Newase | Poster PRESENTATION | 2015-16 | PCCOE.Dept.of Computer |
| 26 | Shrinivas Phalle | Code Craft | 2015-16 | PCCOE Dept. of Computer |
| 27 | Pooja Samudre | Hack This Event (Techlligent of Computer dept) | 2015-16 | PCCOE |
| 28 | Tejas Dhawale | Sangharsh-2016(Basketball) | 2015-16 | PCCOE |
| 29 | Anand Khot | Oracle Certification Program (Java Standard Edition 6 Programmer Cerfied Professional) | 2015-16 | Pune |
| 30 | Dhanashree Nemade Ranjit Bhosale Shreyasi Kolapkar Simran Manghwani | Code-e-Azam, Appstruct | 2015-16 | Copyright Office Govt. of India |
| 31 | Kunal Shimpi Vedant Kakade Prajakta Kulkarni | Brand Bazar | 2015-16 | Copyright Office Govt. of India |
| 32 | Sanket Salve Akash Shinde Akshay Sawant | Funny Bones | 2015-16 | Copyright Office Govt. of India |
| 33 | Piyush Mulik Apuv PATil Ravindra More Kalyani Phalak | Poster PRESENTATION | 2015-16 | Copyright Office Govt. of India |
| 34 | Komal Mohite | Code Craft | 2015-16 | Intellectual Property India : Govt. of India |
| 35 | Tejas Dhawale,Tanmay Patil,Anand | Football | 2015-16 | Trinity College and D. Y. Patil |

| | | | | |
|----|--|---------------------------|---------|---|
| | Rane, Abhishek Ratnaparkhi, Vivekanand Joshi | | | College, Lohegaon |
| 36 | Anantharaman Seshadri, Chaudhari Manojkumar | Table Tennis | 2015-16 | G.H. Rasoni College of Engg. & Mgt., Wagholi. |
| 37 | Potphode Shubham, Jadhav Vijay | Handball (Boys) | 2015-16 | S.P. Jain College, Pabal |
| 38 | Doke Shantanu Chimurkar Aniket | Badminton (Boys) | 2015-16 | D.Y. Patil School of Engineering, Lohegaon |
| 39 | Mane Akshata, Manghwani Simran | Basketball (Girls) | 2015-16 | M.U.C. College, Pimpri |
| 40 | Aniket Chimurkar | Badminton, Satej Karandak | 2015-16 | D.Y. Patil School of Engineering, Lohegaon |

24. List of eminent academicians and scientists / visitors to the department

| Sr. No. | Name of Visitor | Institute / Organization | Activity/ Program |
|---------|---------------------------|---|---|
| 1 | Dr. (Prof.) Sarang Joshi, | Professor, PICT, Pune & Chairman BoS Computer Engg, SPPU, Pune. | Advisory Board Meeting |
| 2 | Mr. Deepak Garud | Vice President, Technology Group, Accenture, Pune. | Advisory Board Meeting |
| 3 | Dr. Aniruddha Joshi, | Director, Atreya Software Solutions, Pune | Advisory Board Meeting |
| 4 | Mr. Yogesh Dandawate | ICERTIS, Pune. | Advisory Board Meeting |
| 5 | Mr. Vijay Shahane | Head, Test Lab & Facility, M/s Dana Technical Centre Pvt. Ltd, Hinjewadi, Pune. | Advisory Board Meeting |
| 6 | Dr. P.N. Mahalle | Sinhgad SKN COE, Pune | FDP on "Design & Analysis of Algorithm" |
| 7 | Mr. Jitendra Sangar | Algorithms & me Bangalore | FDP on "Design & Analysis of Algorithm" |
| 8 | Mr. Ravindra Thadani | Rahul Comp Pune | FDP on "Design & Analysis of Algorithm" |
| 9 | Mr. Milind Deore | CISCO Systems Inc. | FDP on "Design & Analysis of Algorithm" |
| 10 | Dr. D.V. Patil | MET Bhujbal COE, Nashik | FDP on "Design & Analysis of Algorithm" |
| 11 | Prof. Sunil Dhore | Army Institute of Technology, Pune | FDP on "Design & Analysis of Algorithm" |
| 12 | Mahesh Rakheja | MK Solutions | Guest Lecture on "Awareness about cyber security and ethical hacking" |
| 13 | Dr. Parag Kulkarni | EKLaT Research, Pune | Guest Lecture on "Knowledge Innovation Strategy" |

| | | | |
|----|------------------------|---|---|
| 14 | Mahesh Rakheja | MK Solutions | Workshop on Hackthon-Android and Cloud Computing Development |
| 15 | Manish Kumar | Tech Bharat Accociation ACTIIT Kharagpur | Workshop on big data hadoop |
| 16 | Prof. Ujwala Bhangale | K J Somaiya College of Engineering (KJSCE) | One week Faculty Development Program on Research Trends in Computer Engineering |
| 17 | Prof. Ujwala Bhangale | K J Somaiya College of Engineering (KJSCE) | Workshop on GPU Computing |
| 18 | Dr. Abhijaat Vichare | Consultant, ACM India | Discussion on Curriculum and Research of System Programming SIG |
| 19 | Mr. Sudeep Pawar | INTELISIGN | IUG Level Project Competition |
| 20 | Shilpa Zawale | KPIT Tech. Ltd. | IUG Level Project Competition |
| 21 | Dr. R. K Shyamasundar | Tata Institute of Fundamental Research | Distinguished Speaker Program on Multi core Programming |
| 22 | Mr. Jitendra Shelar | CISCO Systems Inc. | Guest lecture on Recent Trends in IT |
| 23 | Dr. Sachin P. Lodha | Tata Consultancy Services | Guest lecture on Fun with Algorithms |
| 24 | Dr. Abhijat Vichare | Consultant, ACM India | Speaker Program on Mathematical Modelling |
| 25 | Mr. Vivek Kulkarni | Chief Architect Persistent Systems Pvt. Ltd. | Guest lecture on Theory of Computation |
| 26 | Dr. Subramaniam | IT advisor to CAG India, Senior deputy director general, Ministry of Communication Electronics & IT | Seminar on Architecting the next generation governance, lesson learn and future directions. |
| 27 | Mr. M. S. Ananth | IIT Bombay | Guest lecture on Introduction to Research |
| 28 | Mr. G. Phani Kumar | IIT Madras | Guest lecture on Literature Review |
| 29 | Mr. Arun Kumar Agarwal | Tata Consultancy Services | Guest Lecture on Business Intelligence & Analytics |

25. Seminars/ Conferences/Workshops organized & the source of funding

The following is a list of the National and International conferences, FDPs and workshops organised by the department.

Table: Seminars/Conferences/Workshops organised by Department

| Module Description | Duration | Sponsoring agency |
|--|--------------------------|-------------------|
| Workshop and hands on session on "Operating System Design" | 25/07/2016 to 27/07/2016 | Self financed |

| | | |
|--|--------------------------|--------------------|
| ICCUBEA (1 st International conference) | 24/02/2015 to 25/02/2015 | IEEE, Pune Chapter |
|--|--------------------------|--------------------|

Table : Workshops organized by Department.

| Module Description | Duration | Resource Persons |
|--|--------------------------|--|
| AY 2016-17 | | |
| Avishkar 2017 | 24/12/2016 | BCUD, SPPU |
| STTP on "Optimization in Machine Learning Research" | 16/01/2017 to 21/01/2017 | Self financed |
| ICCUBEA (2 nd International conference) | 11/08/2016 to 12/08/2016 | IEEE, Pune Chapter |
| Workshop and hands on session on "Operating System Design" | 25/07/2016 to 27/07/2016 | Mr. Yogeshwar Shukla Core Programming Academy, Pune |
| cPGCON (5 th Post Graduate conference) | 24/03/2016 to 5/03/2016 | BOS, Computer Engineering SPPU |
| AY 2015-16 | | |
| Workshop on Big Data & Hadoop | 27/06/15 to 28/06/15 | Mr. Manish Kumar & Mr. Rahul Gaikwad |
| Workshop on Big Data & Hadoop | 5/09/15 to 6/09/15 | Mr. Manish Kumar & Mr. Rahul Gaikwad |
| Workshop on Research Proposal writing | 29/06/15 | Dr. J.S. Umale, Dr. A.D. Thakare |
| Workshop on HACKATHON | 3/7/15 to 5/7/15 | Mr. Mahesh Rakheja |
| Workshop on Major Proposal Writing and Funding | 16/07/15 | Dr. N. Kartikeyan |
| Workshop on GPU Computing | 05/11/15 & 06/11/15 | Mrs. Ujjwala Bhangale |
| Workshop on Patent Writing | 18/12/15 | Dr. H. U. Tiwari |
| Workshop on QT Creator | 19/12/15 to 20/12/15 | Praveen Shaik, Janvi Vidhate, Vishal Maurya, Siddhen Prabhu. (TE students) |
| Workshop on Core Java & Dynamic Programming | 30/1/16 to 31/1/16 | Vishal Maurya (TE students) |
| Workshop on Advance Java | 09/03/16/ | Vedant Kakade, Kunal Shimpi. (BE Students) |
| Workshop on Linux Kernel Compilation | 13/02/16 | Mrs. Gaund, Mrs Sali |
| Workshop on OS Design and Implementation | 28/03/16 to 29/03/16 | Mr. Yogesh Shukla |

| AY (2014-15) | | |
|--|-----------------------|---|
| Workshop on Implementation of Basic Algorithms of Secret Sharing in MATLAB | 02/08/14 | Prof. S. Patil |
| Workshop on C/C++ | 27/08/14 & 28/08/14 | Mr. Sumit Kumar and Mr. Raj Negi |
| Workshop on Core Java | 2/09/14 & 3/09/14 | Mr. Gopi Krishna Kapagunta and Mr. Prasanna Choudhari |
| Workshop on Mathematical Modeling | 11/09/14 | Dr. Leena Sharma |
| Workshop on Dell Statistica- analytics tool | 12/11//14 to 13/11/14 | Mr. Biswajit Nayak |
| Workshop on Android | 09/01/15 to 11/01/15 | Mr. Gopi Krishna Kapagunta and Mr. Prasanna Choudhari (B.E Comp students) |
| AY (2013-14) | | |
| Workshop on Latex | 25/10/13 | Dr. J. S. Umale and Dr. Bhandari |
| Workshop on Web page Designing | 23/12/13 | Mr Kunal Roy and Mr. Gopal Thate |
| Workshop on TE COMP syllabus revision | 27/12/13 | Dr. Sarang Joshi |
| Workshop on Implementation of Image Processing Applications using MATLAB | 05/01/14 | Prof. H. Mhaske and Mrs. S. G. Gudhade |
| Workshop on Hands on Basic Algorithms of Information Security | 23/01/14 | Prof. S. Patil |
| Workshop on Business Intelligence Tool & Techniques | 30/01/14 to 01/2/14 | Mr. Bhatewar |
| Workshop on Android Application | 7/02/14 to 9/02/14 | Ajendra Joshi, Gopi Krishna, Prasanna Chaudhary |
| Workshop on Implementation of Data mining Applications using WEKA | 8/2/14 | Mrs. Deepa Abin |

Table: FDPs conducted by Department

| Module Description | Duration | Resource Persons |
|--|-------------------------|--|
| AY (2016-17) | | |
| Faculty Development Program on on “Big Data & Hadoop” | 13/06/2016 & 14/06/2016 | Mr. Yogesh Pawar |
| AY (2015-16) | | |
| Faculty Development Program on Design and Analysis of Algorithms | 08/06/15 to 13/06/15 | Prof. A. M. Kurkure, Dr. S. R. Dhore, Dr. S. Lodha |

| | | |
|--|-------------------------|--|
| Faculty Development Program on on “Research Trends in Computer Engineering” | 3/10/15 to 7/10/15 | Prof. S. Deshmukh, Dr. S. D. Thepade, Mrs. H. Mhaske and Mrs. S.Gudadhe, Mrs. S. Patil, Ms.Reena Kharat And Mr. K.Tajane, Mrs. S. Vispute, Dr. A.M. Kanthe, Prof. Mahalaxmi |
| AY (2014-15) | | |
| Faculty Development Program on Data Communication & Wireless Sensor Networks | 4/7/14 and 5/7/14 | Prof. Dr. Sarang Joshi and Prof. Madan Kharat |
| Faculty Development Program on “Computer Network” | 02/01/15 to 04/01/15 | Prof. V. V. Kimbhune, Prof. S. K. Pathan , Mr. Nilesh Deshmukh |

Table : Seminars conducted by Department

| Module Description | Duration | Resource Persons |
|--|-----------------|---|
| AY (2016-17) | | |
| Difference between Student Programmer and Professional Programmer | 14/09/2016 | Dr. Navin Kabra CTO ReliScore.com |
| AY (2015-16) | | |
| Awareness about Cyber Security and Ethical Hacking | 04/07/15 | Mr. Mahesh Rakheja |
| Distinguished Speaker Program on Multi core Programming | 21/07/15 | Dr. R. K. Shyamasundar |
| Guest lecture on Recent Trends in IT | 05/08/15 | Mr. Jitendra Shelar |
| Guest lecture on Fun with Algorithms | 08/08/15 | Mr. Dr. Sachin P. Lodha |
| Seminar on Success Mantra | 03/8/15 | Prof. Meera Natrajan |
| Seminar on Emotional intelligence | 14/8/15 | Mr.Swapnil Pande |
| Seminar on ‘Leadership Skills, Business etiquettes and corporate grooming’ | 24/8/15 | Mr.Vikram Chandgude |
| Group Discussion & Personal Interview | 13/08/15 | Mrs.Swati Malhotra |
| Awareness Session for CAT | 19/08/15 | Mr. Anvesh |
| Awareness Session for GRE | 19/08/15 | Mr. Anvesh |

| | | |
|---|----------------------|---|
| Speaker Program on Mathematical Modeling | 25/08/15 | Dr. Abhijat Vichare |
| Guest Lecture on Knowledge Innovation Strategy | 01/09/15 | Dr. Parag Kulkarni |
| Guidance of IAS/IPS/MPSC for Engineering Graduate | 04/09/15 | Mr. Manohar Bhole |
| Expert Session on “Advanced Storage Systems” | 05/09/15 | Milan Gandhi |
| Awareness Session for GATE | 08/09/15 | Mr. Paresh Gugale |
| Guest lecture on Theory of Computation | 14/09/15 | Mr. Vivek Kulkarni |
| Introduction to Hadoop and translator tool | 17/10/15 | Lokesh Katore, Shyam Deshmukh |
| Seminar on Architecting the next generation governance, lesson learn and future directions. | 11/01/16 | Dr. Subramaniam |
| Session on Evolutionary Algorithms | 12/01/16 | Dr. J. S. Umale |
| Session on Real Applications of Algorithm | 12/01/16 | Prof. A.M. Kurkure |
| Counseling session on GATE | 11/02/16 to 12/02/16 | Mr. Paresh Gugale |
| Experience sharing session for GRE | 04/03/16 | Mr. Nishant Pie |
| Counseling session on IES | 08/03/16 | Vaibhav Shrivastav |
| Counseling session on AT/GMAT/CETMBA | 10/3/16 | Mr. Pravin Bakal |
| Seminar on Presentation Skills and Grooming | 10/3/16 | Mr. Kushal Raut |
| Guest lecture on Introduction to Research | 10/3/16 to 15/3/16 | Mr. M. S. Ananth |
| Guest lecture on Literature Review | 10/3/16 to 15/3/16 | Mr. G. Phani Kumar |
| Guest Lecture on Business Intelligence & Analytics | 18/3/16 | Mr. Arun Kumar Agarwal |
| Counseling session on GRE | 11/03/16 | Mr. Hiren Rathod, Education Consultants |
| Seminar on Overseas Education Opportunities | 31/3/16 | Ms. Polina & Mr. M. Joshi |
| AY(2014-15) | | |
| Seminar and Counseling session for GATE | 25/06/14 | Mr. Paresh Gugale |
| Seminar on GATE 2015 | 21/07/14 | Mr. Vivek Tiwari |
| Seminar on Research Component in B.E Projects | 25/8/14 | Prof. Dr. H. U. Tiwari |
| Seminar on Higher studies preparation | 04/09/14 | Ganjendra Borle |
| Guest Lecture on Automated Testing Tool like Selenium with demonstration | 16/9/14 | Mr. Vishal Gupta |

| | | |
|---|----------|---|
| Guest Lecture on Advanced System Storage and Infrastructure Management | 20/09/14 | Mr. Pramod Birajdar |
| Seminar on “Higher Education Campaign” | 13/01/15 | Mr.Arpan suryawan- shi |
| Seminar on “Success Programming” | 07/02/15 | Prof. Meera Natarajan |
| Seminar on “Google Forms” | 07/02/15 | Prof. S.R. Kokate |
| Seminar on “How to do Research..” | 13/02/15 | Mr. Yogesh Dandawate |
| Seminar on “Recent Trends in Cloud Computing and Information Security” | 16/2/15 | Mr. Amar Samarth |
| Seminar on “Web Services” | 21/02/15 | Mr. Ajendra Joshi |
| Seminar on “Benefits of Yoga & Secrets of Pranayam” | 17/03/15 | Mr. N. Lokhande (Patanjali Yogpeeth) |
| Seminar on “Getting started with Patenting” | 23/02/15 | Prof. (Dr.) Tiwari, Prof. Shirode, Prof. S. S. Deshmukh |
| Seminar on GATE coaching campaign | 18/03/15 | Mr.Paresh Gugle |
| Seminar on Stress Management and Time Mangement | 24/03/15 | Mr. Aniruddha Joshi |
| AY (2013-14) | | |
| Seminar on “Aptitude & Soft skill” | 27/06/13 | Mr. Sumit Dey |
| Orientation Program Foreign Language Training: French | 27/06/14 | Representative from BBR |
| Orientation Program Foreign Language Training: German | 30/06/14 | Representative from BBR |
| Seminar on Cloud Security | 02/8/13 | Dr. Sanjay Madria |
| Orientation Program IBM Certifications : (DB2, Cloud, RAD, Advanced Java) | 08/08/14 | Representative from Organiza- tion |
| Orientation Program “Microsoft Certifications : (.Net , C#)” | 13/08/14 | Ms. Meenakshi Chaudhari |
| Seminar on Software Architecture | 19/9/13 | Mr. Jitesh Bafna |
| Seminar on Cloud Computing | 04/2/14 | Siddharth Shah |

26. Student profile programme /course wise:

The department follows BOS, Computer and is affiliated to SPPU. The admission process is as per norms of AICTE and DTE. The following table summarizes the student intake for both regular and shift. Admission process is centralized as per norms of AICTE and DTE. The U. G. Computer Engineering programme aims at transforming a student into a professional with academic excellence and research attitude. Computer Engineering Department offers Postgraduate course M.E. in Computer Engineering affiliated to University of Pune. The following table summarizes the student intake for both regular and shift.

| Academic Year | Applications received | Selected | Enrolled | | Pass Percentage | |
|----------------|-----------------------|----------|----------|----|-----------------|-------|
| | | | M | F | FE | DSE |
| 2015-16 | | | | | | |
| Shift I | ## | 127 | 75 | 52 | 89.62 | 85.81 |
| Shift II | ## | 60 | 36 | 24 | 88.15 | 84.94 |
| 2014-15 | | | | | | |
| Shift I | ## | 127 | 73 | 54 | 87.24 | 85.69 |
| Shift II | ## | 60 | 30 | 30 | 83.45 | 84.65 |
| 2013-14 | | | | | | |
| Shift I | ## | 127 | 70 | 57 | 107 | 83.74 |
| Shift II | ## | 60 | 29 | 31 | 97 | 82.19 |
| 2012-13 | | | | | | |
| Shift I | ## | 126 | 55 | 71 | 105 | 81.03 |
| Shift II | ## | 60 | 37 | 23 | 98 | NA |
| 2011-12 | | | | | | |
| | # | 127 | 73 | 54 | | |

*M = Male *F = Female

Since Admissions are centralized applications are not received.

27. Diversity of Students

We follow the rules and regulations as per AICTE and DTE for the centralized admission process. The following table summarizes the diversity of students for the program.

| Name of the Course | % of students from the same state | % of students from other States | % of students From abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| 2016-17 | | | |
| Shift I | 96.67 | 2.94 | 0.39 |
| Shift II | 98.85 | 1.14 | Nil |
| 2015-16 | | | |
| Shift I | 94.48 | 5.51 | Nil |
| Shift II | 98.33 | 1.66 | Nil |
| 2014-15 | | | |
| Shift I | 93.70 | 6.29 | Nil |
| Shift II | 90 | 10 | Nil |
| 2013-14 | | | |
| Shift I | 96.85 | 3.14 | Nil |

| | | | |
|----------------|-------|------|-----|
| Shift II | 98.33 | 1.66 | Nil |
| 2012-13 | | | |
| Shift I | 93.65 | 6.34 | Nil |
| Shift II | 96.66 | 3.33 | Nil |
| 2011-12 | | | |
| | 97.63 | 2.36 | Nil |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

The following data summarizes the number of students who have qualified in the different competitive examinations.

| Name of the Competitive Examination | Year 2016-17 | Year 2015-16 | Year 2014-15 |
|-------------------------------------|--------------------|--------------|--------------|
| GATE | Yet to be declared | 11 | 07 |
| CAT | 05 | 02 | - |
| GRE | 11 | 05 | - |
| MBA-CET | - | 05 | 01 |
| SNAP | - | 01 | - |
| TOFEL | 09 | 01 | - |
| CMAT | - | - | 01 |

29. Student progression

The students are highly motivated to pursue and excel in their higher education. We have a very good placement scenario in our campus. We also motivate and encourage students to initiate start-ups and incubate projects.

| Student Progression | Against % enrolled | | | | |
|----------------------------------|--------------------|---------|---------|---------|---------|
| | 2016-17 | 2015-16 | 2014-15 | 2013-14 | 2012-13 |
| UG to PG | NA | 0.01% | 2.47 % | 3.50 % | 4.73 % |
| PG to M.Phil | NA | | | | |
| PG to Ph.D | Nil | Nil | Nil | Nil | Nil |
| Ph.D to Post-Doctoral | NA | | | | |
| Employed | | | | | |
| • Campus Selection | 51.18 | 64.10 | 63.70 | 51.28 | 46.03 |
| • Other than campus recruitment | | 1.28 | 13.70 | 29.05 | 26.98 |
| Entrepreneurship/Self-Employment | Nil | Nil | Nil | Nil | Nil |

30. Details of Infrastructural facilities

Department of Computer Engineering is well equipped with classrooms, laboratories and other facilities as per the AICTE norms. The computing facility is adequate to cater need of laboratory and project work for students as per curriculum. Computer systems are with updated configuration. Additional equipments such as hardware devices and kits for related subjects are set up. Students can sit for extended timings in laboratories for projects, mini projects and practice sessions. Internet connectivity and WiFi facility is provided to students and faculty members for effective teaching-learning. We have well equipped central library, departmental library and also access to digital library content.

| Sr. No | Infrastructural Facility | Details | Number |
|--------|--|----------------------------------|---------|
| 1 | Central Library | Titles | 1243 |
| | | Volumes | 5733 |
| | | Journals | 27 |
| | | Magzines | 31 |
| | | CD Title | 241 |
| | | CD Volumes | 673 |
| | | E-Journals | 5 |
| 2 | Departmental Library | Books | 1176 |
| 3 | Internet Facility for Staff & Students | Computers With Internet Facility | 471 |
| | | College Internet Bandwidth | 79 mbps |
| | | Department Internet Bandwidth | 11 mbps |
| 4 | Classrooms | with ICT Facility | 07 |
| 5 | Laboratories | Well equipped | 16 |

Table: Description of class rooms, faculty rooms, seminar hall etc.

| Room Description | Usage | Shared/ Exclusive | Space/ Capacity | Rooms equipped with PC, internet, book rack, meeting space, etc. |
|--|--|-------------------|-------------------|--|
| Class Rooms (201, 202, 203, 204, 101, 111) Total no. of class rooms =06 | To conduct theory classes of SE, TE & BE | Exclusive | 80 per Class Room | Ceramic glass board, Multimedia projector with screen, Computers with Internet connectivity, Benches, Close Circuit TV, Podium, Window Curtains. |

| | | | | |
|----------------------------------|--|-----------|----------------------|---|
| PG Class Room (Admin. Build.) | To conduct theory classes of PG | Exclusive | 40 per Class Room | Multimedia projector with screen, Computers with Internet connectivity, White board, Close Circuit TV, Podium, Window Curtains, Chairs. |
|----------------------------------|--|-----------|----------------------|---|

Table : Details of Laboratory subjects and available laboratories

| Sr. No. | Lab Location | Lab Name | Quality of instruments | Software Installed |
|---------|--------------|---|--|--|
| 1 | 205-A | Information Security Lab | HP , Core 2 duo E7500, 2.93 GHz Processor, 2GB DDR3 RAM, 320 GB HDD. | GCC, G++, JAVA, Eclipse, Umbrello, QT Creator, Android Studio, MongoDB |
| 2 | 205-B | Networks and Communication Lab | HP Compaq, Dual Core, RAM 3 GB, HDD 160GB. Lenovo Think Centre M60e, core 2 duo, 2.93 GHz, RAM 2 GB, HDD -320 GB. | GCC, G++, JAVA, Eclipse, Umbrello, Wireshark, Packet Tracer |
| 3 | 205-C | Hardware Lab – II | Lenovo Think Centre, i3, RAM 2GB, HDD 500GB. | GCC, G++, JAVA, Eclipse, Umbrello, Nasm, Masm |
| 4 | 206 | Database and Information Management Lab | Lenovo Think Centre, i3, RAM-4 GB, HDD-500GB. | GCC, G++, JAVA, Eclipse, QtCreator, Umbrello, Weka, MongoDB, Cassandra |
| 5 | 207 | Algorithms Lab - I | Lenovo Think Centre, i3, RAM-4 GB, HDD-500GB. | GCC, G++, JAVA, Eclipse, QtCreator, Umbrello, Weka, Matlab |
| 6 | 210 | Virtualization Lab | Core 2 duo, RAM 2 GB, 80 .GB HDD, Workstation(Dell Precision T3610 Intel Xeon Processor, 16 GB RAM, 1 TB HDD) Server(HP Proliant ML 350, 16 GB RAM, 2TB HDD, Intel Xeon Processor) | GCC, G++, JAVA, Eclipse, Umbrello, Open Stack |
| 7 | 212-A | System Programming Lab | HP Pro 3005 Business AMD Athlon X2 215 Processor, RAM-2GB, HDD-160 GB, Lenovo Think Centre, core i3, RAM 2 GB, HDD -500GB. | GCC, G++, JAVA, Eclipse, Umbrello, Geany |
| 8 | 212-B | Algorithms Lab - II | HP Compaq, Dual Core, RAM-3 GB, HDD-160GB. | GCC, G++, JAVA, Eclipse, Umbrello |

| | | | | |
|----|---------------------------------|---|---|---|
| 9 | 212-C | Hardware Lab - I | Lenovo Think Centre, core i3, RAM 2 GB, HDD - 500GB. | GCC, G++, JAVA, Eclipse, Umbrello, Nasm, Masm |
| 10 | 112-A | Parallel and Distributed Computing Lab - I | Lenovo Think Centre, core 2 duo, RAM 4 GB, HDD - 320GB. | GCC, G++, JAVA, Eclipse, Umbrello, Eclipse Nvidia Nsight (Cuda), Clisp, Sbcl, Yacc, Flex, Bison |
| 11 | 112-B | Parallel and Distributed Computing Lab - II | Dell, core i5, RAM 4 GB, HDD -1TB. | GCC, G++, JAVA, Eclipse, Umbrello, Eclipse Nvidia Nsight (Cuda), Clisp, Sbcl, Yacc, Flex, Bison, Hadoop |
| 12 | 112-C | Intelligent System Lab | Dell, core i5, RAM 4 GB, HDD -1TB. | GCC, G++, JAVA, Eclipse, Yacc, Flex, Bison, Android Studio |
| 13 | 007A | Project and Innovation Lab - I | Dell, core i5, RAM 4 GB, HDD -1TB. | GCC, G++, JAVA, Eclipse, Yacc, Flex, Bison, Android Studio, Qt Creator, Geany, Umbrello, Weka, Tex maker |
| 14 | 007 | Language Lab | Lenovo Think Centre, core i3, RAM 2 GB, HDD -500GB. | EL Client |
| 15 | UG Lab / PG Lab (Admin. Build.) | Project and Innovation Lab - II | HP Pro 3005 Business AMD Athlon X2 215 Processor, RAM-2GB, HDD-160 GB | GCC, G++, JAVA, Eclipse, Yacc, Flex, Bison, Android Studio, Masm, Nasm, Qt Creator, Geany, Umbrello Weka, Tex maker |
| 16 | PG Lab | Research Lab | DELL Vostro 3900 , 4th Generation Intel(R) Core (TM) i5 -4460 Processor (6M Cache, up to 3.40 GHz), 4 GB single channel DDR3 RAM 1600 Mhz, 1 TB HDD | Matlab, Statistica, Hadoop, Eclipse Nvidia Nsight (Cuda) |

31. Number of students receiving financial assistance from college, university, government or other agencies

We have care and concern towards the needy students who have sound academics as well as towards the students who need financial aid. We have the Earn and Learn scheme which is taken up by such students and also provide scholarships to such students.

| Sr. No | Activity/Event | Number of students benefited | Remark |
|--------|----------------|------------------------------|--------|
| | | | |

| A.Y. 2016-17 | | | |
|----------------------|---|---|---|
| 1 | Earn & Learn Scheme | 5 | SPPU and College sponsored 90 % SPPU sponsored and 10 % College Sponsored |
| 2 | Help to financially poor & needy students | 3 | College sponsored Free meal and book bank facility |
| A. Y. 2015-16 | | | |
| 1 | Help to financially poor & needy students | 2 | College sponsored Financial help , book bank facility |
| 2 | Earn & Learn Scheme | 5 | SPPU and College sponsored 75 % SPPU sponsored and 25 % College Sponsored |
| 3 | Cummins Scholarship | 2 | Cummins college sponsored Laptop and admission fees |

Table: Scholarship by college, university, government or other agencies.

| Sr. No. | Scholarship / Freeship | Remark |
|----------------|-------------------------------|-----------------------|
| 1 | SC Freeship | 38 students benefited |
| 2 | OBC Scholarship | 48 students benefited |
| 3 | SBC Scholarship | 04 students benefited |
| 4 | SBC Freeship | 06 students benefited |

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Student Development and Welfare section comprises of different cells and it aims to provide an effective platform for the conduction of various personal and professional skill development programs is beneficial for the students.

| Sr. No. | Type of Enrichment | Topic | Target Audience | Duration / Date | Resource Person |
|---------------------|-----------------------------|---|------------------------|------------------------|--|
| Year 2016-17 | | | | | |
| 1 | ACM-Eminent Speaker Program | Difference between Student Programmer and Professional Programmer | SE,TE,BE,ME Faculties | 14/09/2016 | Dr. Navin Kabra CTO ReliScore.com |
| 2 | Anantya | Technical Events (Coding, | SE,TE,BE,ME | 22/9/2016 | Santosh Mugalika CEO Creospan Solution Pvt Ltd |

| | | | | | |
|----------------------|---------------------------------|--|------------|---------------------------------|--|
| | | Doodle Making, Project Exhibitin,Poster Presentation) | | | |
| 3 | Workshop | Workshop and hands on session on "Operating System Design" | TE | 25-27/07/2016 | Mr. Yogeshwar Shukla Core Programming Academy, Pune |
| Year 2015- 16 | | | | | |
| 1. | Workshop | Hackthon-Android and Cloud Computating Development | SE, TE | 03/07/2015 to 05/07/2015 | Mr. Mahesh Rakheja, Public Speaker |
| 2. | Distinguished Speaker Programme | Multicore Programming: Challenges | SE, TE, BE | 21/07/2015 | Dr. R. K. Shyamasundar, TIFR |
| 3. | Guest lecture | Recent trends in IT | SE, TE | 05/08/2015 | Mr. Jitendra Shelar, CISCO |
| 4. | Guest lecture | Fun with Algorithms | TE, BE | 08/08/2015 | Dr. Sachin P. Lodha, Principal Scientist, TCS |
| 5. | The Eminent Speaker Programme | Mathematical Modeling | TE, BE | 25/08/2015 | Dr. Abhijat Vichare, Consultant |
| 6. | Guest lecture | Theory of Computation | TE | 14/09/2015 | Mr. Vivek Kulkarni, Persistent |
| 7. | Guest Lecture on | Business Intelligence and Analytics | BE | 18/03/2016 | Mr. Arun Agrawal, Project Manager TCS |
| 8. | Guest Lecture | Object Oriented Programming | SE | 24/03/2016 | Mr. Sudhir Pawar, |
| 9. | Workshop | Big data hadoop workshop | TE, BE | 2 Days | Mr. Manish Kumar organization : Techbharat in association with ACT IIT Kharagpur |
| 10. | Certified Courses | .Net Framework, C# Programming, Cloud Computing | TE | 60 Hours (02/12/15 to 11/12/15) | ATS infotech pvt.ltd |

| | | | | | |
|-----|-------------------|---|--|---------------------------------|--|
| 11. | Short term Course | H DFS and MapReduce framework, Hadoop 2.x Architecture, Hadoop Cluster, Complex MapReduce programs, data analytics using Pig, Hive and YARN | TE | 50 Hours (30/11/15 to 05/12/15) | Mr.Yogesh Pawar Organization : Suman Technology |
| 12. | Short term Course | IBM CE Project – Enterprise Application Development using Java / J2EE | SE,TE,BE | Started on 06/02/16 Running | Web Tek Labs Pvt. |
| 13. | Workshop | Cisco Networking Routing and Switching | SE,TE,BE | 12/03/16 TO 16/03/16 5 Dyas | Mr. Mohmad shariff |
| 14. | Guest Lecture | Git tool | SE | 20/02/2016 | Mr.Aman Jain Organization : Amezatic Solution,Pune. |
| 15 | Guest Lecture | Success Mantra | S.E,T.E,B.E (Comp) University Toppers | 3/8/15 | Mrs.Meera Natrajan,FE Dept, Lecturer,PCCoE |
| 16 | Guest Lecture | Group Discussion and Personal Interview | S.E (Comp) students | 10/8/15 | Mrs.Swati Malhotra,Director and Founder,APAART |
| 17 | Guest Lecture | Emotional Intelligence | S.E (Comp) students | 14/8/15 | Mr.Swapnil Pande,Motivational Speaker |
| 18 | Guest Lecture | Leadership Skills,Business etiquettes and Corporate grooming | S.E (Comp) students | 24/8/15 | Mr.Vikram Chandgude,Motivational Speaker |
| 19 | Guest | Formal | S.E, T.E and | 3/2/16 | Ms. Prachee Mahambre, |

| | | | | | |
|----|---------------|----------------------------------|--|----------|---|
| | Lecture | Business Communication | B.E (Comp) students | | MD of Institute of Professional Excellence (PROFEX) |
| 20 | Guest Lecture | Presentation Skills and Grooming | T.E (Comp) students | 10/3/16 | Mr.Kushal Raut,Consultant, CommuniCare – Training and Content Solutions |
| 21 | Guest Lecture | Spoken English | Primary students of Zilla Parishad School- Maval | 29/12/15 | Deepa Abin, CPDC (Comp) co-ordinator and S.E students Ms.Neha Punjabi,Ms.Manasi Sonawane and Ms.Anuja Wararkar |

33. Teaching methods adopted to improve student learning

We practice Outcome Based Education through the team of committed faculty and staff with the appropriate and adequate knowledge of roles and responsibilities. The Academic Coordinators, Course Coordinators, Class Teachers and the subject teachers ensure the qualitative execution of Teaching Learning Process. The following are the different teaching methods adopted to improve student learning.

- Class room lectures
- Power point presentations with animations
- Invited Guest Lectures
- Group Discussion
- Student's seminars and presentations
- Industrial visits
- Attend seminars and conference
- Webinars
- Interactive and innovative learning session with role play, quiz, etc.
- Assignments and projects
- Unit test
- Tutorial classes
- Mini Projects/ Competitions
- Case Study Based
- Asynchronous Discussions
- Remedial Lectures
- Demonstration.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

We believe in a holistic education that addresses intellectual, physical, emotional, spiritual and social needs and capacities of students that help them become their best self in the service of society at large. We conduct a plethora of activities for imbibing

social and moral values in students. Following is a table that provides a list of the activities conducted.

| Sr. No. | Name of the activity conducted | Date | No of students participated |
|----------------------|---|-------------------------|-----------------------------|
| A. Y. 2016-17 | | | |
| 1 | Donation to “Nachiket Balashram”, Akurdi | 02/09/16 | 35 |
| 2 | Basic Computer Training Program at “Gurukulam Orphanage”, Chinchwad | 05/09/16-30/09/16 | 30 |
| 3 | “Nirmalya Collection” activity @ Ganesh Talav | 11/08/2016 & 15/08/2016 | 25 |
| A. Y. 2015-16 | | | |
| 1 | Cleanliness Drive | 12/9/2015 | 35 |
| 2 | Guset Lecture on “Awareness About Eye Donation ” during NSS camp | 28/12/ 2015 | 30 |

- Donated fund of Rs. 50,000/- to NAAM foundation to help drought affected farmers.
- Organized computer literacy program for under privileged student of Zilla Parishad School, Varali.
- Organized Social Study Visit at Hiware Bazaar on 6th March 2016.
- Along with ETSA students visited & donated grocery to Special Children Orphanage “TARA”.
- ETSA students under Art Circle Cell performed Charity show to help drought affected farmers.
- Cloth Donation
- Blood Donation
- Students volunteered at Ganpati Visarjaan to maintain cleanliness.
- Various activities conducted at village Yelase under one week NSS campaign: like health, education, pathnatya, civil projects & cleanliness awareness programme

35. SWOC analysis of the department and Future plans

The department of Computer Engineering at PCCoE is committed for value added quality technical education in Computer Engineering. The strength of our department is Academics, Research Culture, Student Development and social commitment. We practice Outcome Based Education. We follow P-D-C-A cycle and have well defined and stringent teaching learning process with continuous monitoring and control

leading to excellent academic results. In addition to core academics, the students are provided with plenty of opportunities to develop and excel in curricular, co-curricular and extra-curricular areas such as research, skills development, higher studies, industrial training and placements. Besides technical and professional competence, we make every possible effort to equally imbibe in them the moral and ethical values and transform them into good human beings with these values embedded for life.

Strengths:

The Department plan scrupulously and use state of the art resources for effective Teaching Learning process. Following points highlight the strengths of the Department:

- NBA Accredited UG Program
- Concerned , Dedicated , Qualified and Experienced Faculty
- Growth Opportunities of Faculty, Staff and Students in the area of interest.
- IBM Centre of Excellence
- Well planned activities, Disciplined execution and stringent monitoring of academic performance
- Well documented Processes which are ISO Standardized by TUV-Nord. State-of-the- Art academic infrastructure
- Committed Technical Supporting Staff
- Effective Teaching – Learning Process
- Student Centric approach
- Care and Concern for students through parent teacher guardian scheme (PTG).
- Special Interest groups
- Industry Institute Interaction

Weakness:

We have enlisted below the major areas that we are focussing our efforts:

- Major research grants and international collaboration
- Consultancy projects with financial support
- Product Development

Opportunities:

Being an academic institute, the department has various opportunities to improve research outcomes such as patents, publications, collaborations, interaction with outside world. The opportunities are listed below

- Research Funding from external agencies
- Collaboration with more industries
- Consultancy and enhancement of International Patents Rights
- Publications in SCI journals
- Research center

- Commercialization and Patents

Challenges:

- Placements in renowned highly package industries like Yahoo, Google, Microsoft etc.
- Increasing the number of students for pursuing higher studies.
- Even though department has good number of placements, hundred percent students eligibility for placements is challenge.
- Motivating students to become entrepreneur.

Future Plan

We leverage the strengths that PCCoE and the department of Computer Engineering has developed over the past decades and would like to emerge as a prominent hub in technical education and research thereby contributing to the social and global initiatives. We have a roadmap that focuses on our broad objectives of further creation of the laboratory and research facilities that not only addresses the requisites of curriculum but opens new frontiers for research in emerging domains, enable entrepreneurship and value creation by incubating projects and start-ups, and strengthening of faculty competency. We have mentioned our futuristic plans as mentioned below:

- Funded research projects with collaboration of government and private organizations.
- Establishing MOUs with National/International, academic/research organizations.
- Collaboration with foreign universities.
- Industry collaborated laboratories

Evaluative Report of Information and Technology Department

1. **Name of the department** : Information Technology
2. **Year of Establishment** : 2001
3. **Names of Programmes / Courses offered** : Bachelor of Information Technology
: Master of Information Technology

4. Names of Interdisciplinary courses and the departments/units involved

Department is taking support for following subjects from other department

| Sr. No. | Department Name | Subject Offered |
|---------|---|---|
| 1 | First Year Engineering | Engineering Mathematics-III (UG) |
| 2 | First Year Engineering | Mathematical foundations of Information Technology (PG) |
| 3 | Electronics & Telecommunication Engineering | Digital Electronics & Logic Design (UG) |
| 4 | Mind Active (External Agency) | Communication Language Laboratory |

5. Annual/ semester/choice based credit system (programme wise)

| Sr. No. | Programme of Department | Credit System |
|---------|------------------------------------|--|
| 1 | Bachelor of Information Technology | <ul style="list-style-type: none"> • Credit system is proposed from 2015-2016 by SPPU, Pune. • Annual based results are declared although Semester based Examination system is in place as prescribed by SPPU, Pune. |
| 2 | Master of Information Technology | <ul style="list-style-type: none"> • Credit based system |

6. Participation of the department in the courses offered by other departments

Department is involved in conducting courses offered by other departments.

| Sr. No. | Department Name | Subject Offered |
|---------|--|--|
| 1 | First Year Engineering | Fundamentals of Programming Languages - I |
| 2 | First Year Engineering | Fundamentals of Programming Languages - II |
| 3 | Management of Business Administration (PG) | Management of Information system |
| 4 | Computer Engineering (PG) | Computer Vision & Pattern recognition (CVPR) |
| 5 | Computer Engineering (PG) | Software Design & Architecture |
| 6 | PG - Computer, EnTC, Heat | Research Methodology |

| |
|----------------------------|
| Power & Design Engineering |
|----------------------------|

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

The Add-on courses in collaboration with industries, professional agencies are organized on regular basis by Information Technology department in order to enable and upkeep the students on current technology. The students learn the programming and professional skills in these add-on courses. The mini projects and hands-on learning developed during such courses enhances the professional competence of the students. Few of the courses conducted in collaboration with industries, professional agencies over last three academic years are listed in table below:-

| Academic Year 2016-17 | | |
|-----------------------|--|---|
| Sr. No. | Name of University / Industry/ Institute | Courses / Programs Offered |
| 1 | IBM | <ul style="list-style-type: none"> • Short-term Training on Enterprise Applications for Cloud Environment, Project - Enterprise Application Development using J2EE |
| 2 | Manage Code Cultivate | <ul style="list-style-type: none"> • Two days workshop on Web application Development using PHP and MySQL. |
| 3 | INFOSYS | <ul style="list-style-type: none"> • Training on Infosys campus connect program. |
| 4 | Mind Active Agency | <ul style="list-style-type: none"> • Training on Soft skill and aptitude |
| 5 | Pantech ProEd | <ul style="list-style-type: none"> • Three days workshop on IOT and Python |
| Academic Year 2015-16 | | |
| 1 | IBM | <ul style="list-style-type: none"> • Short-term Training on Enterprise Applications for Cloud Environment, Project - Enterprise Application Development using J2EE |
| 2 | Manage Code Cultivate | <ul style="list-style-type: none"> • Two days Workshop on Website Development using PHP. • Workshop on Mobile application Development using Android |
| 3 | INFOSYS | <ul style="list-style-type: none"> • Training on Infosys campus connect program, |
| 4 | Mind Active Agency | <ul style="list-style-type: none"> • Training on Soft skill and aptitude |
| 5 | TechMahindra Ltd. Pune. | <ul style="list-style-type: none"> • One Day workshop on “Advanced database Tools: XML, DynamoDB and Cassandra” |
| Academic Year 2014-15 | | |
| 1 | IBM | <ul style="list-style-type: none"> • Short-term Training on Enterprise Applications for Cloud Environment, Project - Enterprise Application Development using J2EE • Short-term Training Course on IBMCE Cloud Application Development • Short-term Training Course on IBM DB2 |
| 2 | INFOSYS | <ul style="list-style-type: none"> • Training on Infosys campus connect program, National Level Coding Competition (Aspiration 2020). |
| 3 | Students Forum | <ul style="list-style-type: none"> • Training on Soft skill and aptitude |

8. Details of courses/programmes discontinued (if any) with reasons

NA.

9. Number of Teaching posts

| Title | Sanctioned | Filled |
|---------------------|------------|--------|
| Professor | 2 | 3 |
| Associate Professor | 4 | 1 |
| Assistant Professor | 15 | 17 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

| Sr. No. | Faculty Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---------|--------------------------|---|------------------------------|--------------------------------|----------------------------|---|
| 1 | Dr. Sudeep D. Thepade | Ph. D. | Professor (Shared) | Computer Engineering | 13.7 | 1 |
| 2 | Dr. Swati V. Shinde | Ph.D . | Professor (Shared) | Computer Science & Engineering | 15.7 | - |
| 3 | Dr. Nilesh J. Uke | Ph.D . | Professor | Computer Engineering | 20 | 3 |
| 4 | Mrs. Jayshree V. Katti | M.E. Ph.D Pursuing | Assistant Professor (Shared) | Computer Engineering | 14 | - |
| 5 | Ms. Jaya H. Dewan | M.E. | Assistant Professor (Shared) | Computer Engineering | 15.2 | - |
| 6 | Mr. Ramkrishna S. Vadali | M.S. | Assistant Professor (Shared) | Computer Science | 13.7 | - |
| 7 | Mr. Sachin R. Jadhav | M.E. | Assistant Professor | Computer Engineering | 13.7 | - |
| 8 | Mrs. Rohini G. Pise | M.E. | Assistant Professor (Shared) | Computer Engineering | 13.7 | - |
| 9 | Mr. Vijay D. Katkar | M. Tech. Ph.D (Thesis Submitted) | Assistant Professor | Computer Engineering | 7.7 | - |
| 10 | Ms. Sandhya S. Waghare | M.E. | Assistant Professor | Computer Engineering | 11.5 | - |
| 11 | Ms. Babita D. Sonare | M.E. | Assistant Professor | Computer Engineering | 8.7 | - |
| 12 | Mrs. Vaishali C. Kulloli | M.E. Ph.D Pursuing | Assistant Professor | Computer Engineering | 16.7 | - |
| 13 | Mrs. Renuka S. Gound | M. Tech. | Assistant Professor (Shared) | Computer Engineering | 11.7 | - |

| | | | | | | |
|----|---------------------------|------|------------------------------|------------------------|------|---|
| 14 | Mrs. Tanuja S. Sali | M.E. | Assistant Professor | Computer Engineering | 11.5 | - |
| 15 | Ms. Anagha N. Chaudhari | M.E. | Assistant Professor (Shared) | Computer Engineering | 8.11 | - |
| 16 | Ms. Ashwini A. Tonge | M.E. | Assistant Professor (Shared) | Computer Engineering | 10 | - |
| 17 | Ms. Meera A. Thorat | M.E. | Assistant Professor (Shared) | Information Technology | 3 | - |
| 18 | Ms. Rashmi N. Gadail | M.E. | Assistant Professor | Information Technology | 5 | - |
| 19 | Ms. Swati V. Jadhav | M.E. | Assistant Professor | Computer Engineering | 3.7 | - |
| 20 | Ms. Bhakti S. Ratnaparkhi | M.E. | Assistant Professor | Computer Engineering | 2 | - |
| 21 | Ms. Nilam S. Pokale | M.E. | Assistant Professor (Shared) | Computer Engineering | 2.7 | - |

11. List of senior visiting faculty

Visiting Faculty is not directly involved in teaching regular courses/ practicals. The need based advanced training programs and specialized guest lectures are conducted by visiting faculty on regular basis.

| Sr. No. | Academician / Industry Person | Designation | Industry/ Institute | Year |
|---------|------------------------------------|----------------------|--------------------------------------|--------------------|
| 1 | Mrs. Jyoti Kappal | Professional Trainer | Mind Active | 2015-16 to 2016-17 |
| 2 | Mr. S. S. Arora | Professional Trainer | Student Forum | 2012-13 to 2013-14 |
| 3 | Dr. A. Karandikar | Adjunct Professor | Ph. D (EE) University of Minnesota | 2013-14 to 2015-16 |
| 4 | Mr. V. V. Mundi | Professional Trainer | BE(Civil) Jiwaji university, Gwalior | 2012-13 |
| 5 | Mr. Vivek Malhotra Mrs. A. Atre | Professional Trainer | Apart Education | 2012-13 |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Nil (No temporary faculty is recruited in the department)

13. Student -Teacher Ratio (programme wise)

| Program | Student Ratio |
|---------|---------------|
|---------|---------------|

| | |
|---------------------|---------|
| Under Graduate (UG) | 12.85:1 |
| Post Graduate (PG) | 12:1 |

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

| Title | Sanctioned | Filled |
|-----------------------|------------|--------|
| Laboratory Assistants | 6 | 6 |
| Laboratory Attendant | 3 | 3 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| Sr. No. | Qualification | Number of Teaching Faculty |
|---------|--------------------|----------------------------|
| 1 | Ph.D | 03 |
| 2 | PG (M.E / M. Tech) | 18 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

| Funding Agency | Number of Projects |
|------------------|--------------------|
| a) National | NIL |
| b) International | NIL |

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

Department has received total 04 project schemes with grants till date:
Rs. 4.37 Lakhs

| Funding Agency | Number of Projects |
|----------------|--------------------|
| BCUD | 06 |

| Sr. No. | Academic Year | Faculty Name | Title of the Project | Funding Agency | Grants Received / Sanctioned |
|---------|---------------|-----------------------------------|--|-----------------|------------------------------|
| 1 | 2016-18 | Dr. S. D. Thepade Mr. J. Dewan | Analysis of Surveillance videos for event detection and alarming system using video content, compression, summarization and classification | BCUD, SPPU Pune | 1,00,000/ - |
| 2 | 2016-18 | Dr. Nilesh J. Uke | Real Time Video Surveillance and Analysis using Wireless Sensor Network | BCUD, SPPU Pune | 1,50,000/ - |
| 3 | 2014-16 | Mr. V. D. Katkar | Data mining classification using ensemble of | BCUD, SPPU | 37,000/- |

| | | | | | |
|---|---------|---------------------|--|-----------------|----------------|
| | | Mrs. V. C. Kulloli | classification & fuzzy logic | Pune | |
| 4 | 2013-15 | Ms. A. N. Chaudhari | Effective information retrieval system | BCUD, SPPU Pune | 75,000/- |
| 5 | 2011-13 | Dr. S.V. Shinde | Mining classification rules from database from ANN | BCUD, SPPU Pune | 1,00,000/ - |
| 6 | 2011-13 | Mrs. J. S. Kulkarni | Image Fusion | BCUD, SPPU Pune | 1,25,000/ - |

18. Research Centre /facility recognized by the University

NIL

19. Publications:

Faculty of the department has published research papers in reputed national and international journals and conferences.

a) Total Publications: 573

| Sr. No | Name of the Faculty | Total No. of Publication | No. of Papers published Since AY 2013 |
|--------|---------------------------|--------------------------|---------------------------------------|
| 1 | Dr. S.D. Thepade | 270 | 96 |
| 2 | Dr. S. V. Shinde | 34 | 28 |
| 3 | Dr. Nilesh Uke | 92 | 48 |
| 4 | Mrs. JayshreeV. Katti | 19 | 12 |
| 5 | Ms. Jaya H. Dewan | 15 | 12 |
| 6 | Mr. Ramkrishna S. Vadali | 2 | 2 |
| 7 | Mr. Sachin R. Jadhav | 8 | 5 |
| 8 | Mrs. Rohini G. Pise | 16 | 10 |
| 9 | Mr. Vijay D. Katkar | 26 | 23 |
| 10 | Ms. Sandhya S. Waghare | 11 | 7 |
| 11 | Ms. Babita D. Sonare | 8 | 4 |
| 12 | Mrs. Vaishali C. Kulloli | 10 | 5 |
| 13 | Mrs. Renuka S. Gound | 11 | 4 |
| 14 | Mrs. Tanuja S. Sali | 11 | 3 |
| 15 | Ms. Anagha N. Chaudhari | 17 | 14 |
| 16 | Ms. Ashwini A. Tonge | 5 | 4 |
| 17 | Ms. Meera Thorat | 3 | 2 |
| 18 | Ms. Rashmi N. Gadmail | 8 | 6 |
| 19 | Ms. Swati Jadhav | 5 | 3 |
| 20 | Ms. Bhakti S. Ratnaparkhi | 7 | 7 |
| 21 | Ms. Neelam Pokale | 2 | 2 |

b) Number of papers published in peer reviewed journals (national /international) by faculty and students

Total no. of National Journals : 4

Total no. of International Journals : 79

Total no. of National Conferences : 4

Total no. of International Conferences : 139

| Sr. No | Name of Faculty | Total | | | | Since 2013 | | | |
|--------|---------------------------|---------------|-------|----------|-------|---------------|-------|----------|-------|
| | | International | | National | | International | | National | |
| | | Journ al | Conf. | Journ al | Conf. | Journ al | Conf. | Journ al | Conf. |
| 1 | Dr. S. D. Thepade | 129 | 115 | 5 | 21 | 36 | 79 | - | 13 |
| 2 | Dr. Swati V. Shinde | 12 | 12 | - | 9 | 10 | 11 | - | - |
| 3 | Dr. Nilesh Uke | 35 | 28 | - | 29 | 23 | 9 | - | 16 |
| 4 | Mrs. Jayshree Katti | 4 | 09 | - | 6 | 4 | 8 | - | - |
| 5 | Ms. Jaya H. Dewan | 2 | 10 | - | 3 | 2 | 9 | - | - |
| 6 | Mr. R S. Vadali | 2 | - | - | - | 2 | - | - | - |
| 7 | Mr. Sachin R. Jadhav | 4 | 3 | - | - | 2 | 3 | - | - |
| 8 | Mrs. Rohini G. Pise | 7 | 5 | 6 | - | 2 | 9 | - | - |
| 9 | Mr. Vijay D. Katkar | 6 | 9 | - | - | 3 | 19 | - | - |
| 10 | Ms. Sandhya S. Waghare | 3 | 6 | - | 4 | 4 | 4 | - | - |
| 11 | Ms. Babita D. Sonare | 4 | 1 | - | 3 | 4 | - | - | - |
| 12 | Mrs. Vaishali C. Kulloli | 3 | 2 | - | 5 | 2 | 2 | - | - |
| 13 | Mrs. Renuka S. Gound | 5 | - | - | 6 | 4 | - | - | - |
| 14 | Mrs. Tanuja S. Sali | 1 | 3 | - | 4 | 2 | 1 | - | - |
| 15 | Ms. Anagha N. Chaudhari | | | | - | - | - | 11 | 05 |
| 16 | Ms. Ashwini A. Tonge | 1 | 4 | - | 1 | 1 | 3 | - | - |
| 17 | Ms. Meera Thorat | - | 1 | - | - | 1 | - | - | - |
| 18 | Ms. Rashmi N. Gadbaile | 4 | 4 | - | - | 1 | 2 | - | - |
| 19 | Ms. Swati Jadhav | 2 | 2 | - | - | 2 | 2 | - | - |
| 20 | Ms. Bhakti S. Ratnaparkhi | 5 | 2 | - | - | 5 | 2 | - | - |
| 21 | Ms. Nilam Pokale | 2 | - | - | - | 2 | - | - | - |

c) Number of publications listed in International Database (ForEg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

| Sr. No | Name of Faculty | WOS | Google Scholar | Scopus | EBSCO host | Total No. | No of citations | h-index |
|--------|---------------------------|-----|----------------|--------|------------|-----------|-----------------|---------|
| 1 | Dr. Sudeep D. Thepade | 5 | 247 | 87 | - | 247 | 3148 | 30 |
| 2 | Dr. Swati V. Shinde | - | 13 | - | - | 34 | 15 | 2 |
| 3 | Dr.Nilesh Uke | 1 | 57 | 5 | - | 57 | 60 | 5 |
| 4 | Mrs. Jayshree V. Katti | - | 16 | - | - | 16 | - | - |
| 5 | Ms. Jaya H. Dewan | - | 9 | - | - | 9 | 32 | 4 |
| 6 | Mr. Ramkrishna S. Vadali | - | - | - | - | - | - | - |
| 7 | Mr. Sachin R. Jadhav | - | - | - | - | 8 | - | - |
| 8 | Mrs. Rohini G. Pise | - | 18 | - | - | 18 | 3 | 1 |
| 9 | Mr. Vijay D. Katkar | 3 | 19 | 14 | 1 | 25 | 71 | 5 |
| 10 | Ms. Sandhya S. Waghare | - | 7 | 1 | - | 7 | 1 | 1 |
| 11 | Ms. Babita D. Sonare | - | 4 | - | - | 4 | 1 | 1 |
| 12 | Mrs. Vaishali C. Kulloli | - | 5 | - | - | 5 | 2 | 1 |
| 13 | Mrs. Renuka S. Gound | - | 5 | - | - | 5 | 2 | 1 |
| 14 | Mrs. Tanuja S. Sali | - | 5 | - | - | 5 | 1 | 1 |
| 15 | Ms. Anagha N. Chaudhari | - | 24 | - | - | 24 | 2 | 1 |
| 16 | Ms. Ashwini A. Tonge | - | 10 | 3 | - | 4 | 13 | 2 |
| 17 | Ms. Meera A.Thorat | - | 3 | 1 | - | 1 | 6 | 1 |
| 18 | Ms. Rashmi N. Gadbail | - | 6 | - | - | 6 | - | - |
| 19 | Ms. Swati V.Jadhav | - | 2 | 2 | - | 4 | - | - |
| 20 | Ms. Bhakti S. Ratnaparkhi | - | 4 | - | - | 4 | - | - |
| 21 | Ms. Nilam S.Pokale | - | 2 | - | - | 2 | - | - |

d) Books with ISBN/ISSN numbers with details of publishers:02

| Name of the Author | Book Name | Publisher | ISBN/ISSN no. |
|------------------------|---|--|-------------------|
| Dr. Sudeep. D.Thepade | Ingenious Image Data for Digital Age Customer Contentment | Lambert Academic Publishing | 978-3-659-81864-6 |
| Mrs.Vaishali.C.Kulloli | Data Structures & Files for SE(IT) 2012 Pattern | Suyog Publishers and Distributors Pvt Ltd.Pune | 978-93-82942-55-9 |

20. Areas of consultancy and income generated

| Name of the Faculty | Consultancy work | Duration | Income Generated (in Rs.) |
|-------------------------|---|----------|---------------------------|
| Mr.Ramkrishna S. Vadali | Assistance for Remote Services and Information Security | 1 year | 1,10,000/- |

21. Faculty as members in

a) National committees :9

| Sr. No. | Name of the Faculty | National Committee | Designation |
|-------------------|---------------------|---|-------------------------|
| AY 2016-17 | | | |
| 1 | Dr. Sudeep Thepade | Local Inquiry Committee of SPPU | Member |
| | | Interview Selection Committee of SPPU | Expert |
| 2 | Dr. Nilesh Uke | Recent Trends in Information Technology | Review Committee Member |
| | | Interview Selection Committee of SPPU | Expert |
| AY 2015-16 | | | |
| 1 | Dr. Sudeep Thepade | National Conference on Recent Trends in Electronics, Telecommunications and Information Technology (NCRTEIT-2015) | Invited Speaker |
| | | SPPU BCUD Innovation | Expert |
| 2 | Dr. Nilesh Uke | National Conference on Modelling, Optimization and Control | Review Committee Member |
| AY 2013-14 | | | |
| 1 | Dr. Nilesh Uke | National Conference on Recent Advances in Computer Engineering, RACE | Review Committee Member |
| | | National Conference on Advances in Computing, Networking and Security | Review Committee Member |

b) International Committees :53

| Sr. No. | Name of the Faculty | International Committee | Designation |
|-------------------|--------------------------|---|-------------------------------------|
| AY 2016-17 | | | |
| 1 | Dr. Sudeep Thepade | IEEE CASP | Review Committee Member |
| | | IEEE CAST | Review Committee Member |
| | | International Conference ICT Innovations | Technical Program Committee |
| | | International conference on “Internet of Things, Next Generation Networks and Cloud Computing 2016” (ICINC-2016)” | Review Committee Member |
| | | International conference on ‘Data Engineering & Communication Technology (ICDECT-17) | Member International Advisory Board |
| | | International Conference on Global Trends in Engineering, Technology and Management (ICGTETM – 2016) | Invited Speaker |
| | | AICITE | Organizing Committee Member |
| 2 | Dr. Swati V. Shinde | IEEE- ICCUBEA | Technical Program Chair |
| | | RICE | Technical Program Chair |
| | | IEEE- ICCUBEA | Technical Session Chair |
| | | IEEE-ICA CDOT | Review Committee Member |
| 3 | Dr. Nilesh Uke | IEEE- ICCUBEA | Technical Program Chair |
| 4 | Mrs. J. V. Katti | IEEE- ICCUBEA | Technical Program Chair |
| | | IEEE- CAST | Review Committee Member |
| 5 | Ms. Jaya H. Dewan | IEEE CAST | Review Committee Member |
| 6 | Mr. Ramkrishna S. Vadali | IEEE- ICCUBEA | Review Committee Member |
| 7 | Mrs. R. G. Pise | IEEE- ICCUBEA | Review Committee Member |
| 8 | Mr. Vijay D. Katkar | IEEE CAST, Pune | Review Committee Member |
| | | ICUBEA, Pune | Review Committee Member |

| | | | |
|-------------------|--------------------|---|---|
| 9 | Mrs. V. C. Kulloli | IEEE CAST, Pune | Review Committee Member |
| AY 2015-16 | | | |
| 1 | Dr. Sudeep Thepade | IEEE-CICN2015 | Technical Program Committee Member |
| | | International Conference on Advances in Computing, Communications and Informatics (ICACCI-2015) | Technical Program Committee Member |
| | | International Conference on Applied and Theoretical Computing and Communication Technology (iCATccT - 2015) | Technical Program Committee Member |
| | | IEEE-ICAC3 | Technical Program Committee Member |
| | | IEEE-ICACTA | Technical Program Committee Member |
| | | IEEE-ICIC | Review Committee Member |
| | | IEEE- ICCUBEA | Review Committee Member |
| 2 | Dr. S. V. Shinde | IEEE- ICCUBEA | Review Committee Member |
| | | IEEE UPCON | Review Committee Member |
| | | IEEE ICCCS | Review Committee Member |
| | | IEEE ICISP | Review Committee Member |
| | | Innovation | Session Chair |
| 3 | Dr. Nilesh Uke | SIRS | Review Committee Member |
| | | IEEE International Conference on Information Processing | Review Committee Member |
| 4 | Mrs. J. V. Katti | IEEE-ICCCCA | Review Committee Member |
| | | IEEE- ICCUBEA | Review Committee Member & Session Chair |
| 5 | Ms. J. H. Dewan | IEEE- ICCUBEA | Review Committee Member |
| 6 | Mrs. R. G. Pise | IEEE- ICCUBEA | Review Committee Member |
| 7 | Mr. V. D. Katkar | IEEE- ICCUBEA | Session Chair |
| | | IEEE International Conference on Information Processing, Pune | Review Committee Member |
| | | IEEE ICEIT , Morocco | Review Committee Member |
| 8 | Ms. S. S. Waghere | IEEE- ICCUBEA | Review Committee Member |

| | | | |
|-------------------|--------------------|---|------------------------------------|
| 9 | Ms. B. D. Sonare | IEEE- ICCUBEA | Review Committee Member |
| 10 | Mrs. V. C. Kulloli | IEEE- ICCUBEA | Review Committee Member |
| AY 2014-15 | | | |
| 1 | Dr. Sudeep Thepade | International Conference on Advances in Computing, Communications and Informatics - ICACCI-2014 | Member Technical Program Committee |
| | | International Conference on Circuits, Systems, Communication and Information Technology Applications (CSCITA) (CSCITA-2014) | Member Technical Program Committee |
| | | IEEE-INDICON | Review Committee Member |
| | | International Conference on Networks & Soft Computing (ICNSC 2014) | Review Committee Member |
| 2 | Dr. Nilesh Uke | GCWCN | Review Committee Member |
| 3 | Mr. V. D. Katkar | ICUBEA, Pune | Review Committee Member |
| AY 2013-14 | | | |
| 1 | Dr. Sudeep Thepade | International Conference on Intelligent Systems and Signal Processing (ISSP 2013) | Review Committee Member |
| | | International Conference on “Science and Technology (ICST-2K14)” | Member Technical Committee |

c) Editorial Boards :9

| Sr. No. | Name of the Faculty | Editorial Boards |
|-------------------|---------------------|--|
| AY 2015-16 | | |
| 1 | Dr. Sudeep Thepade | IJICAR |
| | | IJCTE (International Journal of Computer Theory and Engineering) |
| | | IJCEE (International Journal of Computer and Electrical Engineering) |
| 2 | Dr. Nilesh Uke | Editor of the proceedings of 7th Post Graduate and Doctoral Conference for Information Technology – iPGDCon 2016 |
| | | International Journal of Advanced Computer Research (IJACR). |
| | | International Journal of Research in Computer Science |

| | | |
|-------------------|----------------|---|
| | | International Journal of Advanced Research Trends in Engineering and Technology |
| | | ACCENTS Transactions on Image Processing and Computer Vision (TIPCV) |
| AY 2014-15 | | |
| 1 | Dr. Nilesh Uke | International Journal of Advanced Research Trends in Engineering and Technology |

22. Student projects

a. Percentage of students who have done in-house projects including inter departmental/programme

| Academic Year | In House Projects (%) |
|---------------|-----------------------|
| | Department |
| 2016-17 | 95.45 |
| 2015-16 | 95.83 |
| 2014-15 | 94.44 |
| 2013-14 | 94.44 |

b. Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies

| Academic Year | Outside Institute Projects (%) |
|---------------|--------------------------------|
| | Industry |
| 2016-17 | 4.55 |
| 2015-16 | 4.17 |
| 2014-15 | 5.56 |
| 2013-14 | 5.56 |

23. Awards / Recognitions received by faculty and students

a. Awards / Recognitions received by Faculties:

Total-15

| Sr. No. | Name of Faculty | Awards / Recognition | Acad Year | Institute / Organization |
|---------|-----------------------|--|-----------|--------------------------|
| 1 | Dr. Sudeep. D.Thepade | Best Paper Award, (ICATE-2013) (IEEE Conference) | 2013-14 | IEEE India |
| 2 | Dr. Sudeep. D.Thepade | (ICATE-2013 IEEE Conference) | 2013-14 | IEEE India |
| 3 | Dr. Sudeep. D.Thepade | Editors Choice Award by IJCA 2012 (Int. Journal of Computer Applications) | 2012-13 | USA |

| | | | | |
|----|--------------------------|--|---------|---|
| 4 | Dr. Sudeep. D.Thepade | Editors Choice Award IJCA 2012 (Int. Journal of Computer Applications) | 2012-13 | USA |
| 5 | Dr. Sudeep. D.Thepade | Best Paper Award , IJCSIS, (Int. Journal of Computer Applications) | 2011-12 | USA |
| 6 | Dr. Sudeep. D.Thepade | Editors Choice Award, IJCA 2011 (Int. Journal of Computer Applications) | 2011-12 | USA |
| 7 | Dr. Sudeep. D.Thepade | Best Paper Award , (ICCCT-2010) (Springer Conference) | 2010-11 | Springer,India |
| 8 | Dr. Sudeep. D.Thepade | Second Best Research Project Award MANSHODHAN 2010 | 2010-11 | Mithibai College, Mumbai |
| 9 | Dr. Sudeep. D.Thepade | Editors Choice Award IJCA 2010 (Int.Journal of Computer Applications) | 2010-11 | USA |
| 10 | Dr. Sudeep. D.Thepade | Second Best Paper Award ' <i>THINKQUEST-2009</i> ' | 2009-10 | BGIT, Mumbai |
| 11 | Dr. Sudeep. D.Thepade | Best Paper Award (SSPCCIN-2008) | 2008-09 | VIT,PUNE |
| 12 | Dr. Nilesh J. Uke | EMC Star Award by EMC ² Academic Alliance,Bangalore | 2014-15 | EMC |
| 13 | Jayashree V. Katti | Best Paper Award (ICCUBEA 2016 (IEEE Conference)) | 2016-17 | Pimpri Chinchwad College of Engineering, Pune |
| 14 | Mr. Vijay D. Katkar | Best Paper Award, ICC – 2014 (Elsevier Conference)) | 2014-15 | Alpha College of Engineering, Bangluru |
| 15 | Mr. Vijay D. Katkar | Best Paper Award, (ICCUBEA -2015 (IEEE Conference)) | 2014-15 | Pimpri Chinchwad College of Engineering, Pune |

b. Awards / Recognitions received by Students: Total-15

| Sr. No. | Name of Student | Awards / Recognitio n | Acad Year | Institute / Organization |
|---------|-----------------|--------------------------|-----------|--------------------------|
|---------|-----------------|--------------------------|-----------|--------------------------|

| | | | | |
|----|--|-----------------------|---------|--|
| 1 | Ruchita Thombare | Runner-up | 2016-17 | Badminton Competition (Women) SPPU Pune |
| 2 | Deepanshu Nagpal | Runner-up | 2016-17 | Badminton Competition (Men) SPPU, Pune |
| 3 | Satish Talewar | 1 st Prize | 2016-17 | Web based project competition in Computer Department, PCCOE |
| 4 | Sanjeevani Gadade | 2 nd Prize | 2015-16 | Swimming Competition SPPU, Pune |
| 5 | Sanjeevani Gadade | 3 rd Prize | 2015-16 | Swimming Competition PC swimming association |
| 6 | Komal V. Sonawane | 2 nd Prize | 2015-16 | Vinodottam karandak one kid foundation |
| 7 | Aditya Bhor Neha Pathak | Best Paper Award | 2015-16 | VIT Pune |
| 8 | Deepti Bhatia , Sidhant Kulkarni | Best Paper award | 2014-15 | Alpha college of Engg. (Bengluru) |
| 9 | Deepti Bhatia , Sidhant Kulkarni , Sonali Sable | Best Paper award | 2014-15 | IEEE International Conference on Computing, Communication, Control and Automation |
| 10 | Suyed Dalvi , Amol Zinjade , Rashmi Mahajan | Best Paper award | 2014-15 | IEEE International Conference on Computing, Communication, Control and Automation |
| 11 | Siddhant Kulkarni , Deepti Bhatia , Sonali Sable | 3rd Position | 2014-15 | JSPM's Rajarshi Shahu COE, Pune |
| 12 | Akansha Raina, Nikhil Bankar , Shreyas Deshpande, Abhijeet Kulkarni | 1st prize | 2013-14 | Poster Competition AISSM, Pune |
| 13 | Akansha Raina, Nikhil Bankar , Shreyas Deshpande, Abhijeet Kulkarni Abhijeet Kulkarni | 1st prize | 2013-14 | Project Competition (Title: Face detection & recognition) MIT-Alandi, Pune |
| 14 | Akansha Raina , Nikhil Bankar , Shreyas Deshpande, Abhijeet Kulkarni Abhijeet Kulkarni | 1st prize | 2013-14 | Poster Competition (Title of Poster: Video Surveillance criminal Face detection in public) PCCOE, Pune |
| 15 | Mussarat Bare | 1st prize | 2013-14 | Object Oriented Modeling & Design Competition RSCOE, Pune |

24. List of eminent academicians and scientists / visitors to the department

Total: 33

| Sr. No. | Name of academician/ scientist | Duration | Designation | Organization | Purpose of Visit |
|----------------|---------------------------------------|-----------------------------|--------------------------|--|--|
| 1 | Mr. S. Mugalikar | 19 th March 2016 | CEO | Creospan Solutions Pvt. Ltd., Pune | To Review Projects of S.Y. ME Students |
| 2 | Ms. S. Dhawale | 19 th March 2016 | Associate Vice President | KPIT Technologies Ltd., Pune | To Review Projects of S.Y. ME Students |
| 3 | Mr. S. Pawar | 28 th March 2016 | Lead Software Engineer | Intelizign Engineer Services, Pune | To Review Projects of S.Y. ME Students |
| 4 | Mr. S. Mugalikar | 16 th April 2016 | CEO | Creospan Solutions Pvt. Ltd., Pune | To Review Projects of S.Y. ME Students |
| 5 | Mr. G. Randive | 28 th March 2016 | Lecturer | S.B.P.P, Indapur, Pune | Industry Institute Interaction |
| 6 | Prof. C. Reddy | 28 th March 2016 | Associate Professor | Indira Institute of Management (MCA), Pune | Industry Institute Interaction |
| 7 | Prof. J. .Patil | 28 th March 2016 | T.P.O | D.Y.P.C.O.E. Kolhapur | Industry Institute Interaction |
| 8 | Prof. P. Adhao | 28 th March 2016 | Assistant Professor | S.N.E.C. A'bad | Industry Institute Interaction |
| 9 | Prof. A. Husain | 28 th March 2016 | Assistant Professor | J.N.E.C. A'bad | Industry Institute Interaction |
| 10 | Mr. U. Bhosle | 28 th March 2016 | Lecturer | S.B.P.P, Pune | Industry Institute Interaction |
| 11 | Mr. S. Bankar | 28 th March 2016 | Assistant Professor | Indira College of Engg. & Mgt, Pune | Industry Institute Interaction |
| 12 | Mr. K. Bhosle | 28 th March 2016 | Assistant Professor | FAMT, Ratnagiri | Industry Institute Interaction |
| 13 | Mr. P. Patil | 28 th March 2016 | Assistant Professor | DOTSUY, Kolhapur | Industry Institute Interaction |
| 14 | Mr. S. Sasne | 28 th March 2016 | CEO | Dx Systems | Industry Institute Interaction |
| 15 | Dr. S. Kulkarni | 28 th March 2016 | Professor (IT) | Walchand College of Engineering, Sangli | Industry Institute Interaction |
| 16 | Ms. P. Mengshetti | 28 th March 2016 | Director | Alan Turing Infotech, Pune | Industry Institute |

| | | | | | |
|----|---|-----------------------------|------------------------|-------------------------------------|--|
| | | | | | Interaction |
| 17 | Dr. A. Renavikar | 28 th March 2016 | Professor | MIT SOM, Pune | Industry Institute Interaction |
| 18 | Mr. V. Sable | 28 th March 2016 | Director | Alan Turing Infotech, Pune | Industry Institute Interaction |
| 19 | Mr. G. Pise | 28 th March 2016 | Programme Manager | Ninilert Technologies, Pune | Industry Institute Interaction |
| 20 | Mr. K. Badade | 28 th March 2016 | Assistant Professor | CSMSS A'bad | Industry Institute Interaction |
| 21 | Mr. G. Pise | 28 th March 2016 | Architecturere | Tech Mahindra, Pune | Industry Institute Interaction |
| 22 | Dr. A. Abhyankar | 23 rd July 2016 | Dean DoT | SPPU, Pune | Advisory Board meeting |
| 23 | Dr. A. Abhyankar | 30 th July 2016 | Dean DoT | SPPU, Pune | Stakeholder meeting |
| 24 | Mr. N. Rahul | 16 th Aug 2016 | R & D | Pantech Proed | 3 days workshop for faculty student to give an teching on recent research thread i.e. IOT |
| 25 | Mr. V. Jadhav | 23 rd July 2016 | Sr. Quality Anlyst | Hitachi solution | Alumini interartion lecture of Need of s/w testing Unit Testing,Integrat ion testing,Smoke Testing |
| 26 | Mr. R. Gupta Mr. S. Dalvi Mr. A. Shetty Mr. H. Raina | 9 th July 2016 | Software Programmer | Capita India Jiemens L & T L & T | Full day Mock Technical & HR Interviewer |
| 27 | Mrs. S. Deshpande | 1 st Dec 2015 | Assistant Professor | Modern College of Engineering, Pune | To Review Projects of U. G. Students |
| 28 | Mrs. S. Bhavsar | 1 st Dec 2015 | Assistant Professor | MCOE, Pune | To Review Projects of U. G. Students |
| 29 | Dr. A. Banubakade | 1 st Dec 2015 | Professor, HOD IT | RSCOE, Pune | To Review Projects of U. G. Students |
| 30 | Mrs. J. Yemul | 1 st Dec 2015 | Assistant Professor,IT | SKNCOE, Pune | To Review Projects of U. |

| | | | | | |
|----|-----------------|---------------------------|---------------------|---|--------------------------------------|
| | | | | | G. Students |
| 31 | Dr. D. Patil | 1 st Dec 2015 | Assistant Professor | Commins COE, Pune | To Review Projects of U. G. Students |
| 32 | Prof. S. Singh | 14 th Feb 2014 | Associate Professor | Department of Energy Science and Engineering, Indian Institute of Technology Bombay Powai, Mumbai | To Review Projects of U. G. Students |
| 33 | Dr. V. Kathuria | 14 th Feb 2014 | Professor | SJM School of Management, Indian Institute of Technology Powai, Mumbai | To Review Projects of U. G. Students |

25. Seminars/ Conferences/Workshops organized & the source of funding

- a) National: 01
- b) International: NIL

Total no. of seminar /conferences workshop organized: 02

| Sr. No. | Seminar/ conference /workshop | Name of the event | Duration | Funding agency | Funds Received |
|---------|-------------------------------|--|-------------------------------------|----------------|----------------|
| 1 | Workshop | Orientation workshop for Avishkar-2016 | Mid August-mid October 2016, 4Hours | SPPU (BCUD) | 10,000/- |
| 2 | Workshop | Workshop on Hadoop, Cassandra and XML | 1Day (30/1/2016, 9am to 6pm) | PCCOE | 8000/- |

26. Student profile programme/course wise:

| Academic Year | Applications received | Selected | Enrolled | | Pass Percentage |
|---------------|-------------------------------|----------|----------|----|-----------------|
| | | | M | F | |
| 2012-13 | Centralized Admission Process | 61 | 30 | 31 | 61.54 % |
| 2013-14 | | 63 | 31 | 32 | Appearing |
| 2014-15 | | 64 | 36 | 28 | Appearing |
| 2015-16 | | 64 | 35 | 29 | Appearing |
| 2016-17 | | 63 | 39 | 24 | Appearing |

Master in Information Technology

| Academic Year | Applications received | Selected | Enrolled | | Pass Percentage |
|---------------|-------------------------------|----------|----------|----|-----------------|
| | | | M | F | |
| 2014-15 | Centralized Admission Process | 19 | 7 | 12 | Appearing |
| 2015-16 | | 14 | 4 | 10 | Appearing |
| 2016-17 | | 10 | 4 | 6 | Appearing |

*M = Male *F = Female

27. Diversity of Students

| Name of the Course | % of students from the same state | % of students from other States | % of students From abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| 2016-17 | 96.83 % (61 students) | 3.17 % (02 students) | 0 |
| 2015-16 | 92.19% (59 students) | 7.81% (05 students) | 0 |
| 2014-15 | 93.75% (60 students) | 6.25% (04 students) | 0 |
| 2013-14 | 92.06% (58 students) | 7.94% (05 students) | 0 |

Master in Information Technology

| Name of the Course | % of students from the same state | % of students from other States | % of students From abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| 2016-17 | 100 % (10 Students) | 0 | - |
| 2015-16 | 92.86 % (13 Students) | 7.14% (1 Student) | - |
| 2014-15 | 94.74% (18 Students) | 5.26% (1 Student) | - |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| Gate Exam Cleared | GRE Exam Cleared | TOFEL |
|-------------------|------------------|-------|
| 2 | 2 | 2 |

29. Student progression

| Student progression | Against % enrolled |
|------------------------|--------------------|
| UG to PG | 03 |
| PG to M.Phil. | nil |
| PG to Ph.D. | nil |
| Ph.D. to Post-Doctoral | nil |

| | |
|---|--|
| Employed through a) Campus selection | 2013-14: 23 2014-15 :41 2015-16 :40 2016-17 :32 |
| b) Other than campus recruitment | 2013-14 :10 2014-15 :12 2015-16 :0 |
| Entrepreneurship / Self-employment | 04 |

30. Details of Infrastructural facilities

a) *Library*

b) *Internet facilities for Staff & Students*

c) *Class rooms with ICT facility*

d) *Laboratories*

| Sr. no | Nature of Infrastructure Facility | Details | Numbers (IT related) | Total |
|--------|--|--------------------|--|---------|
| a) | Central Library (For Information Technology Department) | Titles | 709 | 7627 |
| | | Volumes | 3634 | 32706 |
| | | Journals | 14 | 126* |
| | | Magazine | 31 | 31 |
| | | CD Titles | 123 | 516 |
| | | CD Volumes | 440 | 1563 |
| | | E-Journals | 5 Packages of AICTE(IEL, ASME, ASCE,JGATE) | |
| | Department Library | Titles | 192 | |
| | | Volumes | 770 | |
| b) | Internet Facility for Students and Staff | Computers** | 266 | 79 Mbps |
| | | Internet Bandwidth | 10Mbps | |
| c) | Classrooms | With ICT Facility | 02 Exclusive + 1 Shared | |
| | Tutorial Room | With ICT Facility | 1 Shared | |
| d) | Laboratories | With ICT Facility | 8 Exclusive + 2 Shared With FE | |

*Journals – 122 in Hard Copy and 4 in Soft Copy

**Computers – All the Computers are connected with the Internet Facility.

Classrooms:

| Sr. No. | Room No. | Room Size (Sq. Meter) | Usage | Shared/ Exclusive | Capacity | Rooms Equipped with |
|---------|----------|-----------------------|-------|-------------------|----------|---------------------|
|---------|----------|-----------------------|-------|-------------------|----------|---------------------|

| | | | | | | |
|---|-----|----|---------------------|-----------|----|--|
| 1 | 102 | 80 | Conducting Lectures | Exclusive | 82 | PC with Internet connection, LCD Projector, Ceramic Chalk Board, LCD Screen, Podium, Dias, CCTV Camera |
| 2 | 103 | 79 | Conducting Lectures | Exclusive | 82 | PC with Internet connection, LCD Projector, Ceramic Chalk Board, LCD Screen, Podium, Dias, CCTV Camera |
| 3 | 111 | 80 | Conducting Lectures | Shared | 82 | PC with Internet connection, LCD Projector, Ceramic Chalk Board, LCD Screen, Dias, CCTV Camera |

Computers:

| Sr. No. | Description | Make | Details | Quantity |
|---------|-----------------------|--------|---|----------|
| 1 | I5 Workstation | Dell | 4th Gen Intel core i5-4570 processor (Quad core 3.2 GHz Turbo, 6 MB, W/HD Graphics 4600), 1600 MHz DDR3, 2 TB 3.5" HDD, 19" monitor with LED back light | 9 |
| 2 | I5 Desktop PCs | Dell | Core i5-4570 processor (Quad core, 6 MB Cache, 3.2 GHz, w/HD Graphics 4600), 1600 MHz DDR3, 2 TB 3.5" HDD, 18.5" monitor with LED back light | 25 |
| 3 | I5 Desktop PCs | Dell | Core i5-6400 processor, 4 GB DDR3 RAM, 1 TB HDD, Dell 19" Monitor | 25 |
| 4 | I3 Desktop PCs | Lenovo | Intel Core I3 3.30 GHZ, 4GB DDR3, 500 GB SATA, Lenovo 18.5" LCD monitor | 85 |
| 5 | C2D Desktop PCs | Lenovo | Intel C2D 2.93 GHZ, 4 GB, 320GB, TFT Monitor – Lenovo 18.5" LCD Monitor | 30 |
| 6 | C2D Desktop PCs | HP | Intel C2D, 2.93 GHz, 4GB RAM, 320 GB HDD, 18.5" LCD Monitor | 33 |
| 7 | C2D Desktop PCs | VIP | Intel C2D, 2.0 GHz, 2 GB DDR RAM, 80 GB HDD, Monitor – DELL – 18" (LCD) | 22 |
| 8 | C2D Desktop PCs | ACER | Intel C2D, 2.8 GHz, 2 GB DDR RAM, 320 GB HDD, 15" TFT Monitor | 4 |
| 9 | Dual Core Desktop PCs | HP | Intel Dual Core, 2.0 GHz, 1 GB DDR RAM, 160 GB HDD, 15" TFT Monitor | 7 |
| 10 | P4 Desktop PCs | HCL | Intel P4, 2.66 GHZ, 1 GB DDR RAM, 80 GB HDD, Monitor – DELL – 18" (LCD) | 26 |

Laboratories:

| Sr. No. | Laboratory description in the curriculum | Exclusive use / shared | Space, number of students | Equipments / Instruments | Quantity | Number of Students per experiment |
|---------|--|------------------------|---------------------------|--------------------------|----------|-----------------------------------|
|---------|--|------------------------|---------------------------|--------------------------|----------|-----------------------------------|

| | | | | | | |
|---|--|-----------|--|--|----|---|
| 1 | Multimedia & VIBE Laboratory [InfoTech Laboratory 2] (105-B) | Exclusive | 98 sq. meter / (24 students per batch) | Computers: HP Make Intel C2DE7500 2.93 GHZ, 2GB, 320 GB TFT Monitor – 18.5” | 22 | 1 |
| | | | | Workstations: DELL Make 4th Gen intel core i5-4570, 3.2 GHZ, 8 GB, 2 TB | 2 | |
| | | | | Acer Power Series S 285 C2D 2.8 2GB DDR, 320GB HDD, Dell 15 " | 3 | |
| | | | | Computers: VIP Make Intel C2D, 2.8 GHz, 2 GB, 320 GB, TFT Monitor – 15” | 1 | |
| | | | | Switch: D-Link Switch | 2 | |
| | | | | Scanner : Canon LiDE 120 | 1 | |
| | | | | Printer: Epson-FX2175 | 2 | |
| | | | | Printer: Canon LBP 2900 | 1 | |
| 2 | Software Engineering & Database Laboratory [InfoTech Laboratory 3] (106) | Exclusive | 81 sq. meter / (24 students per batch) | Computers: Lenovo Make I3 2120 Second Gen chipset,H61, 2 GB, 500 GB LCD Monitor – 18.5” | 21 | 1 |
| | | | | Computers: Lenovo Make Intel C2D 2.93 GHZ, 4 GB 320 GB,TFT Monitor –18.5”. | 2 | |

| | | | | | | |
|---|--|-----------|--|--|----|---|
| | | | | Workstations: DELL Make 4th Gen intel core i5-4570, 3.2 GHZ, 8 GB, 2 TB | 2 | |
| | | | | Computers: HP Make Intel C2D 7500 2.93 GHZ 2 GB, 320 GB TFT Monitor – 18.5” | 2 | |
| | | | | Computers: VIP Make Intel C2D, 2.0 GHz, 2 GB, 80 GB, TFT Monitor – 15” | 3 | |
| | | | | Computers: Lenovo Make Intel C2D 2.93 GHZ, 4 GB, 320 GB, TFT Monitor – 18.5” | 2 | |
| | | | | Switch: D-Link Switch | 1 | |
| | | | | Printer: LaserJet 1020 | 1 | |
| | | | | Printer: Epson – LQ2090 | 1 | |
| | | | | Printer: Epson-FX2175 | 1 | |
| | | | | Scanner: ConnonLiDE 120 | 1 | |
| 3 | System Software Laboratory [InfoTech Laboratory 4] (104) | Exclusive | 73 sq. meter / (24 students per batch) | Computers: Lenovo Make Intel C2D 2.93 GHZ, 4 GB, 320GB TFT Monitor – 18.5” | 23 | 1 |

| | | | | |
|--|--|--|---|---|
| | | | Computers: Lenovo Make I3 2120 Second Gen chipset, 4 GB, 500 GB LCD Monitor – 18.5” | 1 |
| | | | Workstations: DELL Make 4th Gen intel core i5-4570, 3.2 GHZ, 8 GB, 2 TB | 2 |
| | | | Computers: HP Make Intel C2D 7500 2.93 GHZ 2 GB, 320 GB TFT Monitor – 18.5” | 1 |
| | | | Computers: Lenovo Make I3 2120 Second Gen chipset, 4 GB, 500 GB LCD Monitor – 18.5” | 1 |
| | | | Computers: VIP Make Intel C2D, 2.0 GHz, 2 GB, 80 GB, LCD Monitor – 15” | 3 |
| | | | Switch: D-Link Switch | 1 |
| | | | Printer: Epson - LQ2090 | 1 |
| | | | Scanner Canon LiDE 120 | 1 |
| | | | Printer: Epson - FX2175 | 1 |
| | | | Printer: HP1020 | 1 |
| | | | Printer: Canon LBP 2090 | 1 |

| | | | | | | |
|---|---|-----------|--|---|----|---|
| 4 | Networking & Security Laboratory [InfoTech Laboratory 7] (107) | Exclusive | 79 sq. meter / (24 students per batch) | Workstations: DELL Make 4th Gen intel core i5-4570, 3.2 GHZ, 8 GB, 2 TB | 3 | 1 |
| | | | | Desktops: DELL Make 4 th Gen intel i-5, 3.2 GHZ, 8 GB, 2 TB | 25 | |
| | | | | Computers: Lenovo Make Intel C2D 2.93 GHZ, 4 GB 320 GB,TFT Monitor –18.5”. | 02 | |
| | | | | Switch: D-Link Switch | 2 | |
| | | | | Printer: HP 1020 | 1 | |
| 5 | Data Structures and Algorithm Lab[InfoTech Laboratory 1B] (105-A) | Exclusive | 99 sq. meter/(24 students per batch) | Computers: Lenovo Make Intel Core I3 3.30 GHZ, 4 GB, 500 GB, LCD Monitor- 18.5” | 23 | 1 |
| | | | | Computers: Lenovo Make Intel C2D 2.93 GHZ, 4 GB 320 GB, TFT Monitor –18.5”. | 02 | |
| | | | | Computers: VIP Make Intel C2D, 2.0 GHZ, 2 GB, 80 GB, LCD Monitor – 15” | 03 | |
| | | | | Switch: D-Link Switch | 1 | |
| | | | | Printer: Epson Lx300+ | 2 | |
| | | | | Printer: Epson-FX2175 | 1 | |
| | | | | Printer: Cannon LBP 2900 | 1 | |

| | | | | | | |
|---|--|-----------|--|---|----|---|
| | | | | Scanner: Cannon LiDE 120 | 1 | |
| 6 | Hardware Lab [InfoTech Laboratory 1A] (105- B) | Exclusive | | Branded Digital Electronics Kit | 74 | 4 |
| | | | | IC tester: Universal | 1 | |
| 7 | Basic Programmi ng Laboratory I [InfoTech Laboratory 5] (G002) | Shared | 72 sq. meter / (24 students per batch) | Computers: Lenovo Make I3 2120 Second Gen chipset, 4 GB, 500 GB LCD Monitor – 18.5” | 21 | 1 |
| | | | | Computers: HCL Make Intel P4 2.66 GHZ, 1 GB, 80 GB, Monitor – 15” | 10 | |
| | | | | Switch: D-Link Switch | 2 | |
| | | | | Printer: Epson-FX2175 | 1 | |
| 8 | Basic Programmi ng Laboratory II [InfoTech Laboratory 6] (G001) | Shared | 73 sq. meter / (24 students per batch) | Computers: Lenovo Make I3 2120 Second Gen chipset, 4 GB, 500 GB LCD Monitor – 18.5” | 19 | 1 |
| | | | | Computers: VIP Make Intel C2D, 2.0 GHz, 2 GB, 80 GB, LCD Monitor – 15” | 3 | |
| | | | | Computers: HCL Make Intel P4 2.66 GHZ, 1 GB, 80 GB, Monitor – 15” | 7 | |
| | | | | Switch: D-Link Switch | 2 | |

| | | | | | | |
|----|---|-----------|--|--|----|---|
| | | | | Printer: Epson-FX2175 | 1 | |
| 9 | Advance Programmi ng Laboratory I InfoTech Laboratory 8 (G003) | Exclusive | 73 sq. meter / (24 students per batch) | Computers: HP Make Intel Dual Core, 2.0 GHz, 1 GB, 160 GB, Monitor- 15" TFT | 7 | 1 |
| | | | | Computers: HCL Make Intel P4 2.66 GHZ, 1 GB, 80 GB, Monitor – 15” | 9 | |
| | | | | Computers: VIP Make Intel C2D, 2.0 GHz, 2 GB, 80 GB, LCD Monitor – 15” | 8 | |
| | | | | Acer Power Series S 285 C2D 2.8 2GB DDR, 320GB HDD, Dell 15 " | 1 | |
| | | | | Switch: Cisco SG95 24 Port Switch | 2 | |
| 10 | Advance Programmi ng Laboratory II (Project Lab) [InfoTech Laboratory 9] (G004) | Exclusive | 73 sq. meter / (24 students per batch) | Computers: Dell Make Core i5-6400 processor, 4 GB, 1 TB, Dell 19" Monitor | 25 | 1 |
| | | | | Computers Lenovo Make Intel C2D 2.93 GHZ, 4 GB 320 GB,TFT Monitor –18.5”. | 1 | |
| | | | | Scanner: UMAX Astra 3600 | 1 | |
| | | | | RUCKUS Zone Flex 7352, Indoor AP with POE Adapter | 1 | |

31. Number of students receiving financial assistance from college, university, government or other agencies

A. Number of students receiving financial assistance from government

| Total No. of Students receiving financial assistance | | | | | | |
|--|-------------|-----------|-------------|-----------|-------------|-----------|
| | CFY 2015-16 | | CFY 2014-15 | | CFY 2013-14 | |
| Category | Scholarship | Free ship | Scholarship | Free ship | Scholarship | Free ship |
| SC | 24 | 10 | 22 | 26 | 25 | 14 |
| ST | 1 | 2 | 1 | 2 | 1 | 0 |
| DTNT | 13 | 9 | 16 | 4 | 15 | 5 |
| SBC | 3 | 2 | 2 | 3 | 1 | 4 |
| OBC | 23 | 17 | 22 | 17 | 23 | 0 |
| EBC | 46 | NA | 45 | NA | 46 | NA |
| Minority | 3 | NA | 2 | NA | 1 | NA |
| STC/PTC | 1 | NA | 2 | NA | 2 | NA |
| CSS | 3 | NA | 5 | NA | 4 | NA |
| Total | 117 | 40 | 117 | 52 | 118 | 23 |

B. Number of students receiving financial assistance from other agencies

| Sr. No. | Class | Name | Scholarship Agency | Amount |
|---------|-------|------------------|--------------------|----------|
| 1 | TE IT | Satish Talewar | Cummins | 95,000/- |
| 2 | TE IT | Uzma Shaikh | AMP | 10,000/- |
| 3 | SEIT | Utkarsha Shelake | Lila Poonawalla | 45,000/- |
| 4 | SEIT | Priyanka Talele | Persistent | 40,000/- |
| 5 | SEIT | Arshiya Sayyad | Persistent | 40,000/- |
| 6 | SEIT | Kiran Chavan | Lila Poonawalla | 60,000/- |

32. Details on student enrichment programmes (special lectures /workshops /seminar) with external experts: Total- 27

| Sr. No | Type of Enrichment programme | Topic | Target audience | Details of Expert | Duration | No of Participants |
|----------------|------------------------------|---------------------------------|-----------------------------|---|-----------------|---------------------------|
| 2016-17 | | | | | | |
| 1 | IOT workshop | IOT & Python using Raspberry pi | IT, Comp students & faculty | Mr. Rahul N works at R & D in Pantech ProEd | 16/9/2016 To | 51- students 6-Faculty |

| | | | | | | |
|----------------|--|--|------------|--|-------------------------------|----|
| | | | | ,Chennai | 18/9/2016 | |
| 2 | GRE / CAT Counselling | Awareness about GRE/ CAT Exams | SE | Mr. Anvesh Joshi | 28/06/2016 | 50 |
| 3 | GRE / CAT Counselling | Awareness about GRE/ CAT Exams | TE/BE | Mr. Anvesh Joshi | 29/06/2016 | 03 |
| 4 | Education Abroad | Guidance for taking education abroad | TE, BE | Mr. Prashant Nayyar | 02/09/2016 | 10 |
| 5 | GATE Awareness | Guidance and awareness about GATE | SE, TE | Mr. Harsh Khunte | 12/09/2016 | 84 |
| 6 | Training on soft skills and Aptitude training | Training on soft skills and Aptitude training | TEIT | MindActive Agency | Total Hrs .40 | 74 |
| 7 | Guest lecture on “Soft Skill and Personality Development ” | Guidance for Soft Skill and Personality Development | SE, TE, BE | Mr. Sagar Sonker | 1/9/2016 | 22 |
| 2015-16 | | | | | | |
| 1 | Seminar on Overseas Education | Seminar on Overseas Education Opportunities | BE | Ms. Polina Pal Career Advisor, Siec Education Pvt. Ltd. | 31/3/2016 | 35 |
| | Counselling session for CAT / GMAT / CETMBA | Counselling session for CAT / GMAT / CETMBA | SE ,TE | Mr. Deepak TIME group | 10/3/2016 | 08 |
| 2 | IES Counselling session | Indian Engineering Services Counselling session | BE | Mr. Vaibhav MadeEasy Group | 8/3/2016 | 04 |
| 3 | Entrepreneurship Awareness Camp | A two day camp for Entrepreneurship Awareness was conducted where many entrepreneurs delivered informative sessions to the | SE, TE, BE | Sponsored by Department of Science and Technology(Go vt. Of India) | 30/1/2016 and 31/1/2016 | 15 |

| | | | | | | |
|----------------|--|---|------------|---|-------------------------|----|
| | | students | | | | |
| 4 | Training Program | Training on soft skills and Aptitude training | SEIT | MindActive Agency | Total Hrs .40 | 76 |
| 5 | Mock GATE Examination | Students appeared for mock GATE | BE | Vidyalankar institute | 22/1/2016 | 20 |
| 6 | Special Lecture | “Corporate Etiquettes and Leadership Skills” | SEIT | Student Forum. | 11/11/2015 | 60 |
| 7 | GATE Awareness | Guidance and awareness about GATE | SE | Mr.Paresh Gugale Imprial Institute Of Excellence | 08/09/2015 | 75 |
| 8 | Guidance on IAS/ IPS/ MPSC for engineering graduates | Guidance on IAS/ IPS/ MPSC exam Preparations | SE, TE, BE | Mr. Manohar Bhole Unique Academy, Pune | 04/09/2015 | 86 |
| 9 | GRE / CAT Awareness | Awareness about GRE/ CAT Exams | SE | Mr. Anvesh Joshi IMS Academy | 19/08/2015 | 57 |
| 2014-15 | | | | | | |
| 10 | IBM software Industry project training | Industry: oriented project training under career education program. | SE, TE, BE | | 1/12/2014 to 12/12/2014 | 32 |
| 11 | DB2 Workshop: | students to learn and get Certification of DB2 | SE, TE, BE | Arranged under IBMCOE | 4/8/2014 to 6/8/2014 | 50 |
| 12 | GATE counseling session | Students got guidance for preparation of GATE | SE | by Mr. Gajendra Borle from GATE coaching class. | 22/07/2014 | 71 |
| 13 | Java Training | Students learnt aptitude skills, communication skills and Java. | BE | Zensar | 19/6/2014 to 30/6/2014 | 69 |
| 14 | CAT examination | Students got guidance for | SE, TE, BE | by Mr T.G.Param from | 13/08/2014 | 10 |

| | | | | | | |
|----------------|--|--|------------|--|------------------------|----|
| | awareness seminar | preparation of CAT | | SIBM | | |
| 15 | Mock Test on DB2 | Conducted to shortlist the students for DB2 Certification by IBMCOE. | SE, TE, BE | | 2/9/2014 and 18/9/2014 | 50 |
| 16 | GRE Awareness program: | Guidance and awareness about GRE | SE, TE, BE | Mr. Deepak Kulaskar from Princeton Review. | 03/09/2014 | 65 |
| 17 | GATE Awareness Program: | Guidance for preparation of GATE | SE, TE, BE | Mr. Manu Abraham from I.C.E. Gate Institute | 3/1/2015 | 56 |
| 18 | Civil services UPSC/MPSC C Awareness Program | Guidance for preparation of UPSC/ MPSC | SE, TE, BE | Chanakya classes | 16/2/2015 | 40 |
| 19 | Guest Lecture | Employability skills training in UK | SE, TE, BE | Dr. Sally ann Burnett, UK from Chinmay education consultancy | 19/3/2015 | 45 |
| 2013-14 | | | | | | |
| 20 | Training Course | Enterprise Applications for Cloud Environment: Certification Course | TE, BE | IBMCOE | 2/6/2014 to 12/6/2014 | 27 |
| 21 | GATE Examination : Awareness | | SE, TE, BE | Mr. Paresh Gugale | 26/08/2013 | 59 |
| 22 | Training course | Developing Project in J2EE | SE, TE, BE | IBMCOE | 2/6/2014 to 13/6/2014 | 51 |
| 23 | GRE Examination : Awareness Lecture | Students got guidance for preparation of GRE | SE, TE, BE | Mr. Deepak Kulaskar | 09/07/2013 | 38 |
| 24 | Training course | Developing Project in J2EE | , BE | IBMCOE | 26/6/2014 to 11/7/2014 | 51 |
| 25 | CAT Examination Awareness & Mock | CAT Examination Awareness & Mock Lecture | SE, TE, BE | Mr. Sushant Randive | 22/07/2013 | 41 |

| | | | | | | |
|----|---------|--------------------------------------|------------|--------------------------|------------|-----|
| | Lecture | | | | | |
| 26 | Lecture | Preparation for UPSC/MPSC Exam | SE, TE, BE | Mr. Vishal Khambe | 12/09/2013 | 05 |
| 27 | Lecture | Study & Work Opportunities at Abroad | SE, TE, BE | Mr. Dayanand M. Hiremath | 02/09/2013 | 133 |

33. Teaching methods adopted to improve student learning

Different content delivery methods (CDM) are used by the faculty members depending upon the requirements of the course. The effective use of these content delivery methods have resulted into the improvement of examination results and overall confidence of the students with respect to that course.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities:

| Content Delivery Method | Description |
|---|--|
| CDM 1: Lecture with interaction | For the fundamental subjects like mathematics, this is the very effective method where each concept can be explained with examples solved on the board. |
| CDM 2: Quiz | This method includes question and answer session facilitating overview of many areas and helps faculty to identify the weak learners in the class. |
| CDM 3: Group Discussion | In this method, everybody participates in the discussion, and therefore thinks and expresses himself. This is a sure way of learning. |
| CDM 4: Demonstration (through models, chart, videos etc.) | This technique provides clear and thorough understanding of any topic or working process in the form of Models, chart or videos, etc. |
| CDM 5: Case Study based | In this method, any real life unit is taken for study to understand how the theoretical concepts are applied. |
| CDM 6: Mini projects/Competition | This technique includes design and implementation of small but deliverable application. Projects reports are written and presented with open discussion. |
| CDM 7: Presentation | This approach depicts the ideas and specific topic through power point presentations |
| CDM 8: Industrial visit | This approach makes students familiar with real world applications and recent trends in technologies or softwares. |
| CDM 9: Asynchronous Discussion | This is an informal discussion/session with students irrespective of teaching aids, location etc. |
| Tutorial | This facility provides students to study a particular topic in depth with more guidance of mentor. |

| Sr. No. | Academic Year | Date | Event |
|---------|---------------|-------------------------|----------------|
| 1 | 2015-16 | 7/07/2015 to 11/07/2015 | Cloth donation |

| | | | |
|----|---------|----------------|--|
| 2 | | 15/09/2015 | Blood donation |
| 3 | | 23/09/2015 | Nirmalya collection |
| 4 | | 27/09/2015 | Nirmalya collection |
| 5 | | 25/12/2015 | Team Building Activities |
| 6 | | | Women Empowerment |
| 7 | | 26/12/2015 | Fort Awareness |
| 8 | | | Blood Donation |
| 9 | | | Learning Self Defense |
| 10 | | | Sarp : Samaj/ Gairsamaj |
| 11 | | 27/12/2015 | Nirman |
| 12 | | | GIS Mapping |
| 13 | | 28/12/2015 | ANIS |
| 14 | | 29/12/2015 | Website Design for Village |
| 15 | | | Reservoir Construction |
| 16 | | | Cultural Program |
| 17 | 2014-15 | 3/8/2014 | Visit to Sadhana Village-Orphans (Special Friends) |
| 18 | | 28/8/14 | Jaldindi abhiyan |
| 19 | | September 2014 | Fund Raising for blinds |
| 20 | | September 2014 | Police Mitra training. |
| 21 | | 02/10/2014 | Swach Bharat Abhiyan |
| 22 | | 6/01/2015 | Tree Plantation At Shive Village |
| 23 | | | Youth participation in development of india & social responsibility of youth |
| 24 | | 7/01/2015 | Sanshodhan Drusti |
| 25 | | 8/01/2015 | Interschool Competition |
| 26 | | | Politics –Youth Participation |
| 27 | | | Social Awareness Session |
| 28 | | 9/01/2015 | Bachat Gat Guidance |
| 29 | | | Good Moral Values By Games |
| 30 | | | Good Moral Values By Games |
| 31 | | 10/01/2015 | Blood Donation Camp |
| 32 | | | Computer Training |
| 33 | | | Cultural Program |
| 34 | | 11/01/2015 | Soil Testing |
| 35 | | | Science Exhibition |
| 36 | | | Kirtanatun Prabodhan |
| 37 | | 12/01/2015 | Prabhat Pheri |

| | | | | |
|----|---------|------------|---|--|
| 38 | | 17/03/2015 | Tree Plantation in PCCOE | |
| 39 | 2013-14 | 22/12/2013 | Soil Testing | |
| 40 | | | Guest lecture Youth and Politics | |
| 41 | | | Session on Sammohan shastra | |
| 42 | | 23/12/2013 | Spoken English for selected students of high school by NSS Students | |
| 43 | | | English Grammar for Students of high school by NSS Students | |
| 44 | | | Girls Guardian Scheme-By the girls students for village girls students | |
| 45 | | | Cultural Training and Practice for the students of primary school and high school such as dance drama | |
| 46 | | | Essay Competition "Swacha Sundar Shive Gaon" and Poster Competition | |
| 47 | | 24/12/2013 | Science School | |
| 48 | | | Gani Prabodhanachi | |
| 49 | | | Pathnatya and Drama by students | |
| 50 | | 25/12/2013 | Work Donation | |
| 51 | | | Origami Workshop | |
| 52 | | 26/12/2013 | Blood Donation Camp | |
| 53 | | | Blood Group & HB checking Camp | |
| 54 | | | Poster Competition | |
| 55 | | | Street Play | |
| 56 | | 27/12/2013 | Tree plantation | |
| 57 | | | Programme for Women | |
| 58 | | | Judo Training for girls students | |
| 59 | | | Cultural Program | |
| 60 | | | 28/12/2013 | Awareness Drive for Andhashradha and Vyasanmukti |

35. SWOC analysis of the department and Future plans

Strength:

- State of art Infrastructural and Computing Facility.

- Effective Teaching – Learning Process.
- Experienced and qualified faculty.
- Committed Technical Supporting Staff.
- State of art Infrastructural Facility.
- Strong Industry Institute Interaction.

Weakness:

- Consultancy Need to be improved
- International collaborations need to be initialized

Opportunities

- Research Grants and Research Funding from external agencies
- Collaboration with more industries
- Consultancy and enhancement of International Patents Rights.
- MOUs with industry

Challenges:

- Adapting to Rapid and Dynamic changes in information technology.
- Rate of obsolescence in Information Technology field and matching curriculum to meet these.

Future Plan

- To intensify efforts in patenting copyrights, IPR and product prototyping.
- Funded research projects in collaboration of government and private sector.
- Establishing research centre to offer Ph.D. Course in Information Technology.
- Establishing MOUs with International academic/research organizations
- Accreditation from International Agencies (ABET).

Evaluative Report of Civil Engineering Department

1. **Name of the department** : Civil Engineering
2. **Year of Establishment** : 2012-13
3. **Names of Programmes / Courses offered** : Bachelor of Civil Engineering

4. Names of Interdisciplinary courses and the departments / units involved

| Sr. No. | Department Name | Subject Offered |
|---------|------------------------|-----------------------------|
| 1 | First Year Engineering | Engineering Mathematics III |
| 2 | First Year Engineering | Soft Skills |

5. Annual/ semester/choice based credit system (programme wise):

| Sr.No. | Programme | Credit System |
|--------|-----------|--|
| 1 | UG | <ul style="list-style-type: none"> • Credit system is started from 2015-2016 by SPPU, Pune. Currently First Year and Second Year have semester based credit system. |

6. Participation of the department in the courses offered by other departments

| Sr. No. | Department Name | Subject Offered |
|---------|------------------------|---|
| 1 | First Year Engineering | Basic Civil and Environmental Engineering (Sem.-I) |
| 2 | First Year Engineering | Engineering Mechanics (Sem.-II) |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

| Sr. No. | Name of University / Industry/ Institute | Courses / Programs Offered |
|---------|--|---|
| 1 | M/S. Skify labs PVT.LTD. Bangalore | Two days workshop on Seismic design of Building using ETab and SAP organized on 27 and 28 th August 2015 |
| 2 | M/s. Bentley Institute, Prabha consultancy Pvt., Ltd. Pune | Organized Induction programme on Soft computing in Civil Engineering Design on 25 July 2016 |
| 3 | M/s. Bentley Institute, Prabha Consultancy Pvt., Ltd. Pune | STAAD Masters Training Programme of 42 hrs. for T.E. and B.E. students organized on 30 August.2016 to 30 th September 2016 |
| 4 | M/s. SACE Academy Pvt. Ltd, Pune | CAD masters training programme of 42 hrs. for S.E. students 22 August.2016 to 30 th September.2016 |

8. Details of courses / programmes discontinued (if any) with reasons

Nil

9. Number of Teaching posts

| Title | Sanctioned | Filled |
|---------------------|------------|--------|
| Professor | 0 | - |
| Associate Professor | 3 | 3 |
| Assistant Professor | 14 | 14 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

| Sr. No. | Faculty Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---------|------------------------|--|--------------------------|-----------------------------|----------------------------|---|
| 1 | Dr. S. T. Mali | Ph.D. (Civil Engineering) | HOD, Associate Professor | Environmental Engineering | 15 | 1 student is Pursuing |
| 2 | Mrs. S. S. Motegaonkar | M.E. Ph.D. (Civil Engineering Pursuing) | Associate Professor | Water Resources Engineering | 9.5 | - |
| 3 | Mr. A. K. Gaikwad | M. Tech , Ph. D. (Civil Engineering Pursuing) | Associate Professor | Construction Management | 17 | - |
| 4 | Mrs. J. N. Changade | M. Tech. | Assist. Professor | Construction Management | 13.5 | - |
| 5 | Mr. S.B. Gorade | M.E. | Assist. Professor | Construction Management | 15.5 | - |
| 6 | Mrs. R. R. Purohit | M.Tech. | Assist. Professor | Structures | 10.8 | - |
| 7 | Mr. R. S. Choudhari | M.E. | Assist. Professor | Construction Management | 12.9 | - |
| 8 | Mrs. P. V. Kalokhe | M.E. | Assist. Professor | Structures | 6 | - |
| 9 | Mrs. K. D. | M.Tech. | Assist. | Structures | 10 | - |

| | | | | | | |
|----|------------------------|---|-------------------|------------------------------------|------|---|
| | Dhapekar | | Professor | | | |
| 10 | Mr. V. B. Kale | M.E. | Assist. Professor | Structures | 9.5 | - |
| 11 | Mr. Sunil D. Deshpande | M.Tech. .Ph. D. (Civil Engineering Pursuing) | Assist. Professor | Hydraulics | 24.5 | - |
| 12 | Mr. D. A. Ugale | M. Tech. | Assist. Professor | Transportation Systems Engineering | 1.5 | - |
| 13 | Mr. T.S. Khambekar | M.E. | Assist. Professor | Environmental | 3.7 | - |
| 14 | Mrs. N. S. Sane | M. Tech. | Assist. Professor | Hydraulics | 10 | |
| 15 | Mr. P.P. Mane | M.E. | Assist. Professor | Construction Management | 10 | - |
| 16 | Mr .S.P. Banne | M. Tech. | Assist. Professor | Geotechnical Engg. | 5.1 | |
| 17 | Mr. Mohammad Ali Bangi | M. Sc. | Visiting Faculty | Geology | 1 | - |

11. List of senior visiting faculty

Nil.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

1. S.E. Civil Theory = 20 % (4/20) Practical = 20 % (6/30)
2. Visiting faculty was appointed only for subject Engineering Geology (Sem.-II)

13. Student -Teacher Ratio (programme wise)

Academic Year: 2016-17

| Program | Student Ration | | | |
|----------------|----------------|---------|---------|---------|
| | 2016-17 | 2015-16 | 2014-15 | 2013-14 |
| Under Graduate | 13:1 | 21:1 | 19:1 | 13:1 |

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

| Title | Sanctioned | Filled |
|-----------------------|------------|--------|
| Laboratory Assistants | 5 | 5 |
| Department Clerk | 0 | 0 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| Qualification | Number of Teaching Faculty |
|---------------|----------------------------|
| PhD | 1 |
| ME / MTech | 16 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

| Funding Agency | Number of Projects |
|------------------|--------------------|
| a) National | Nil |
| b) International | Nil |

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

| Funding Agency | Number of Projects |
|----------------|---------------------|
| DST | - |
| UGC | 1(Proposal Applied) |
| AICTE | - |
| BCUD | 2 |

| Sr. No. | Academic Year | Faculty Name | Title of the Project | Funding Agency | Grants Received Rs. |
|---------|---------------|---------------------|--|----------------|---------------------|
| 1 | 2015-16 | Dr. Mali Sandip T. | Development of Household Bioreactor from kitchen Waste | BCUD, SPPU | 190000 |
| 2 | 2015-16 | Mr. Gaikwad Ajay K. | Optimization for Ready Mix Concrete (RMC) truck's Dispatching Schedule | BCUD, SPPU | 100000 |

18. Research Centre /facility recognized by the University NO.

19. Publications:

Faculty has published research papers in reputed National and International journals.

A) Publication total-

| Sr. No. | Name of the Faculty | Publication |
|---------|------------------------|-------------|
| 1 | Dr. S. T. Mali | 07 |
| 2 | Mrs. S. S. Motegaonkar | - |
| 3 | Mr. A. K. Gaikwad | - |
| 4 | Mrs. J. N. Changade | - |
| 5 | Mr. S. B. Gorade | 02 |
| 6 | Mrs. K. K. Dhapekar | - |
| 7 | Mr. V. B. Kale | 04 |
| 8 | Mrs. R. R. Purohit | 02 |
| 9 | Mr. R. S. Chaudhari | 03 |
| 10 | Mrs. P. V. Kalokhe | 01 |
| 11 | Mr. S. D. Deshpande | 02 |
| 12 | Mrs. N. S. Sane | 02 |
| 13 | Mr. S. P Banne | 02 |
| 14 | Mr. T. S. Khambekar | 00 |
| 15 | Mr. D. A. Ugale | 00 |
| 16 | Mr. P. P. Mane | 03 |
| 17 | Mr. Mohammad Ali Bangi | - |

No. of Citation index : 39

SNIP :

SJR :

Impact factor : 4.5

h-index :2

B) Number of papers published in peer reviewed journals (national / international) by faculty and students

Total no. of National Journals : Nil

Total no. of International Journals : 12

Total no. of International Conferences: 06

| Academic Year | National Publication | | International Publication | | Total |
|---------------|----------------------|------------|---------------------------|------------|-------|
| | Journal | Conference | Journal | Conference | |
| 2013-14 | - | 01 | - | 01 | 02 |

| | | | | | |
|---------|---|----|----|----|----|
| 2014-15 | - | 01 | - | 01 | 02 |
| 2015-16 | - | 03 | 12 | 04 | 19 |
| 2016-17 | - | 03 | - | - | 03 |

C) Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)

| Sr. No. | Name of the Faculty | Total number of publication |
|---------|------------------------|-----------------------------|
| 1 | Dr. S. T. Mali | 12 |
| 2 | Mrs. S. S. Motegaonkar | 01 |
| 3 | Mr. A. K. Gaikwad | 01 |
| 4 | Mrs. J. N. Changade | 02 |
| 5 | Mr. S. B. Gorade | 02 |
| 6 | Mrs. K. K. Dhapekar | 02 |
| 7 | Mr. V. B. Kale | 03 |
| 8 | Mrs. R. R. Purohit | 01 |
| 9 | Mr. R. S. Chaudhari | 00 |
| 10 | Mrs. P. V. Kalokhe | 01 |
| 11 | Mr. S. D. Deshpande | 02 |
| 12 | Mrs. N. S. Sane | 02 |
| 13 | Mr. S. P Banne | 02 |
| 14 | Mr. T. S. Khambekar | 00 |
| 15 | Mr. D. A. Ugale | 00 |
| 16 | Mr. P. P. Mane | 03 |
| 17 | Mr. Mohammad Ali Bangi | 00 |

D) Monographs, Chapters in book authored, Books edited, Books published:- Nil

E) Books with ISBN/ISSN numbers (Details- Name, Publication, Year)

Total Book published:04

| Name of the Faculty | Name of book | Name of publication | ISBN No. | Year of Publication |
|---------------------|--------------|---------------------|----------|---------------------|
| | | | | |

| | | | | |
|-----------------------|---|--------------------------|---------------------|---------|
| Dr. S. T. Mali | Basic Civil and Environmental Engineering | Nirali Publication, Pune | ISBN 938244811-X | 2011-12 |
| | Surveying -I | Nirali Publication, Pune | ISBN 938196239-L | 2012-13 |
| | Environmental Engineering - I | Nirali Publication, Pune | ISBN 935164335-Z | 2014-15 |
| | Air Pollution & control | Nirali Publication, Pune | ISBN 935164877-X | 2015-16 |

20. Areas of consultancy and income generated

| Consultancy Work in Academic year 2016-17 | | | | |
|--|-------------|---------------------------------|---|----------------------------|
| Sr. No. | Date | Testing Lab Used | Description | Amount received Rs. |
| 1 | 17/03/2016 | Fluid Mechanics Laboratory | Wind Tunnel used for testing under M.E. Mechanical Project work | 5000/- |
| 2 | 01/07/2016 | Testing of Materials Laboratory | UTM used for testing a Fiber part of Automobile industry (Load vs deflection and strain Measurement.) | 1000/- |
| 3 | 11/08/2016 | Testing of Materials Laboratory | A fiber shaft was tested for Load vs deflection and strain Measurement. This was ME Mech. Design project work. | 500/- |

| Sr. No | Name of faculty | Institution/organisation |
|---------------|------------------------|---------------------------------|
| 1 | Dr. S. T. Mali | IWWA, IEI,NSWAI,ISTE |
| 2 | Mrs. S. S. Motegaonkar | ISTE |
| 3 | Mr. A. K. Gaikwad | ISTE, IEI, AMIE |
| 4 | Mr. R. S. Chaudhari | IWWA, IEI |
| 5 | Mrs. P. V. Kalokhe | SEFI |
| 6 | Mrs. K. K. Dhapekar | NECEE |

21. Faculty as members in

| Sr.No. | Committee | No. of Faculty |
|---------------|------------------|-----------------------|
| 1 | International | Nil |

| | | |
|---|-----------|-----|
| 2 | National | Nil |
| 3 | Editorial | Nil |

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme

| Academic Year | In House Projects (%) | |
|---------------|-----------------------|-------------------|
| | Department | Interdisciplinary |
| 2015-16 | 100% | Nil |
| 2016-17 | 88.89% | 11.11% |

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies

| Academic Year | Outside Institute Projects (%) | | |
|---------------|----------------------------------|---------------------------------|--------|
| | Industry | Research Laboratory | Others |
| 2015-16 | 11.59% (8 students out of 69) | -- | - |
| 2016-17 | -- | 5.79% (4 students out of 69) | - |

23. Awards / Recognitions received by faculty and students

| Sr. No. | Name of Faculty / Student | Awards / Recognition | Academic Year | Institute / Organization |
|---------|---------------------------|--|--------------------------------------|---|
| 1 | Dr. S. T. Mali | Prize in zonal Research Project Competition | 14 to 15 th December 2009 | SSPU |
| | | Prize in zonal Research Project Competition AVISHKAR 2010 | 21 to 22 nd October 2010 | University of Pune |
| | | Bharat Ratna Dr. Sir M. Visvesvaraya Centenary Prize for the paper | 20-26 th 2013 | Institution of Engineers (India), Pune Local Centre |
| | | “Sanmanpatra” | 3 rd Aug. 2014. | Akhil Bahartia Virshaiv Mali Samajunoti Parished Sangli |

| | | | | |
|--|------------------------|--|--|--|
| 2 | Mrs. S. S. Motegaonkar | Scholarship of Rs. 45000/ | July 11-20, 2014. | Venice International University |
| | | Certificate of appreciation by Aakanksha, Funding Rs. 1,00,000/ received from BCUD, Savitribai Phule Pune University for organizing Two Days State level workshop on Dams and Hydraulic Structures | 6 th Sept. 2015. 8&9 Dec.2015, | Lions Club of Pune SPPU |
| 3 | Mr. A.K. Gaikwad | 2nd Topper of BE | 1998 | WIT, Solapur |
| | | Guest of Honor | 2015 | ISTE student chapter ,APCOE, Parvati, Pune |
| | | Appreciation from Principal for 1st patent | 2015 | PCCOE, Pune |
| | | Appreciation from Principal for 2nd patent | 2015 | PCCOE, Pune |
| | | Resourse Person for syllabus revision of Engineering Mechanics | 2013 | APCOE, Parvati, Pune |
| | | Session Chair for NCTR-2016 | 2016 | APCOE, Parvati, Pune |
| | | Research Topic- Optimization of Ready Mix Concrete (RMC) Truck's Dispatching Schedule, Rs. 1,15,000/ | 2015-16 | |
| | | Filed a Patent with application no. 3031/MUM/2015 [CBR No. 12460, Docket No. 17206] | 2015-16 | |
| | | Filed one patent on "RMC Uninterrupted dispatching Schedule" dated CBR No.472.App No-100/MUM/2015 | 2014-15 | |
| Avishkar 2016, Zonal Level-I at VIIT, Pune | December-2016 | SPPU | | |

| | | | | |
|---|---------------------|---|----------------|---------------|
| | | Avishkar 2016, Zonal Level-II at PCCOE, Pune | December-2016 | SPPU |
| | | Avishkar 2016, University Level at SPPU. | January - 2017 | SPPU |
| | | Letter of Appreciation for “Session Chair” | 08/07/2016 | |
| | | PG Teacher | 08/10/2015 | |
| | | GATE-2000 AIR-3842/5997 | 2000 | |
| | | GATE-2006 AIR-2439/9393 | 2006 | |
| 4 | Mr. R. S. Chaudhari | University topper for ME (Construction Management) | 2012-13 | N.M.U Jalgaon |
| 5 | Mrs. K. D. Dhapekar | Academic Excellence Prize | 2008 | VNIT, Nagpur |
| | | Dr. P.N. Godbole Prize | 2008 | VNIT, Nagpur |
| | | Dr.S.S. Kulkarni Prize | 2008 | VNIT, Nagpur |
| | | Best Performance Prize | 2006-07 | VNIT, Nagpur |
| 6 | Mr. S. P. Banne | Topper BE(Civil) Award | 2008-2009 | |
| | | Gate-2010 AIR 1132 | 2010 | |
| 7 | Mr. D. A. Ugale | Gate 2013-AIR 831 | 2013 | |
| 8 | Mr. T. S. Khambekar | Padamshree B. G. Shirke Vidyarthi award | 2015 | PCERF, Pune |

Awards / Recognitions received by Students:

| Sr. No. | Name of Student | Awards / Recognition | Academic Year | Institute / Organization |
|----------------|------------------------|--|----------------------|--|
| 1 | Mr. Pushkaraj Mane | Photography (Winner) | 2015-16 | PCCOE |
| 2. | Mr. Shubham Pawar | De- Struct Model Contest (2 nd Prize) | 2015-16 | RSCoE dept. of Civil Engg. (Tathawade) |

| | | | | |
|---|---|---|---------|-------------|
| 3 | Mr.Sharma Yogesh | Filed a patent on 'A Zip with an Instant Inbuild repairing Provision' (Patent No. 3692/MUM/2015) | 2015-16 | |
| 4 | Mr.Khemchandani Ajay | Filed a patent on 'Sustainable Design of a Building By Biomimiking Lotus Stem' (Patent No. 4546/MUM/2015) | 2015-16 | |
| 5 | One team from SE | Technified Solutions Competition in "NIRMITEE 2015"(Winner) | 2014-15 | MIT Kothrud |
| 6 | Mr. Ganesh Prasad | Second prize in Debate competition in TROIKA -2017 | 2016-17 | BMCC,Pune |
| 7 | Mr. Nilay Warkhedkar, Mr. Hrashal Rasal, Mr. Shubham Sarode, Mr. Vitthal Shelke, Miss. Pooja Sonawane, Miss. Priyanka Pisal | 3 rd Prize in Smart River Game Competition | 2016-17 | RSCOE, Pune |

24. List of eminent academicians and scientists / visitors to the department

| Sr. No. | Name of Visitor | Institute / Organization | Activity/ Program | Date |
|---------|-------------------------|--|---|------------|
| 1 | Mr. Sanjay Deshpande | Sanjeevani Developers | Model Competition | 5/9/2014 |
| 2 | Dr. A. B. More | PBVIT, Pune | One day workshop of Hands on Practical for Environmental Engineering- I | 11/12/2016 |
| 3 | Dr. D. M. More | Rtd. D.G. Water Resources Department, Pune | Two days workshop on DHS | 8/12/2016 |

| | | | | |
|----|-------------------------|--|--------------------------|------------|
| 4 | Dr. Sunil Kute | KKWCOE, Nasik | Two days workshop on DHS | 8/12/2016 |
| 5 | Dr. S.N. Londhe | VIIT, Pune | Two days workshop on DHS | 8/12/2016 |
| 6 | Dr. G. A. Hinge | BSCOER, Narhe, Pune | Two days workshop on DHS | 8/12/2016 |
| 7 | Prof. V. M .Natraj | PREC, Loni | Two days workshop on DHS | 9/12/2016 |
| 8 | Mr. C. M. Dordi | Ambuja cement | | |
| 9 | Mr. J. S. Jadhav | BAI Pune | Techlligent 2016 | 11/1/2016 |
| 10 | Mr. Harshraj Thakur | Dept. Of environmental protection, Massachusetts | Guest Lecture | 6/1/2016 |
| 11 | Dr. D. R.Jundhare | PCMC | Guest Lecture | 18/2/2016 |
| 12 | Mr. Malkeet Singh Reyad | Irrigation Dept. (Govt. Of Maharashtra) | Guest Lecture | 8/2/2016 |
| 13 | Prof. P. B. Kodag | SCOE, Vadgaon | Guest Lecture | 26/2/2016 |
| 14 | Mr.Pradip Shinkar | S N Bhole & Associate Pvt.Ltd, Pune | Guest Lecture | 9/3/2016 |
| 15 | Mr.Vikas Thakar | Pavetech Consultants, Pune | Guest Lecture | 22/7/2016 |
| 16 | Prof. V. R. Phadake | Retired Professor | Guest Lecture | 5/8/2016 |
| 17 | Dr. S. R. Parekar | HoD, AISSMS COE, Pune | Guest Lecture | 16/9/2016 |
| 18 | Mr. P. G. Pagnis | Retired Civil Engineer | Guest Lecture | 21/09/2016 |
| 19 | Dr. V. L. Shah | Technical Director, structures Publications, Pune. | Guest Lecture | 3/3/2016 |
| 20 | Mr. Sandip Kaul | Inter arch Building product Pvt Ltd. | Guest Lecture | 14/09/2016 |
| 21 | Mr. Ulhas Paranjape | Jal Savardhan, Mumbai | Guest Lecture | 31/12/2016 |

25. Seminars/ Conferences/Workshops organized & the source of funding

- a) **National** - Nil
- b) **International** – Nil
- c) **State Level**

| Sr. No. | Details of Workshop | Funding Agency |
|---------|---------------------|----------------|
|---------|---------------------|----------------|

| | | |
|---|---|----------------------|
| 1 | Savitribai Phule Pune University sponsored Two Days Workshop on ' <i>Dams and Hydraulic Structures</i> ' for the staff and students on 8 th and 9 th December 2015 [65 participants] . | SPPU,BCUD (100000/-) |
| 2 | ISTE Approved One day workshop on " <i>Hands-on Training of Solution Preparation for Practical of Environmental Engineering</i> " for the staff , students and laboratory technicians of Environmental Engg on 11 th December 2015 [Department of Civil Engineering and Department of First Year Engineering] [55 participants] | ISTE Approved |

26. Student profile programme /course wise:

| Name of the Course/Programme | Academic Year | Applications received | Selected | Enrolled | | Pass percentage |
|------------------------------|---------------|-------------------------------|----------|----------|----|-----------------|
| | | | | *M | *F | |
| UG (Civil) | 2016-17 | Centralized Admission Process | 76 | 61 | 15 | 97.12% |
| | 2015-16 | | 77 | 54 | 23 | Appearing |
| | 2014-15 | | 76 | 60 | 16 | Appearing |
| | 2013-14 | | 77 | 64 | 13 | Appearing |

*M = Male *F = Female

27. Diversity of Students

| Name of the Course/Programme | Name of the Course | % of students from the same state | % of students from other States | % of students From abroad |
|------------------------------|--------------------|-----------------------------------|---------------------------------|---------------------------|
| UG | 2016-17 | 98.43 | 1.56 | NIL |
| | 2015-16 | 97.37 | 2.63 | NIL |
| | 2014-15 | 98.61 | 1.39 | NIL |
| | 2013-14 | 94.20 | 5.79 | NIL |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

From academic year 2015-16, the first batch graduating in Civil Engineering the details of students in Higher Studies is as followed.

| Gate Exam Cleared | Civil Services Cleared | Defense Services Cleared | GRE | IELTS | TOEFL |
|-------------------|------------------------|--------------------------|-----|-------|-------|
| 02 | -- | 01 | -- | -- | -- |

29. Student progression

| Student progression | Against % enrolled |
|---------------------|--------------------|
| UG to PG | 03/77 |

| | |
|----------------------------------|-------------|
| PG to M.Phil. | - |
| PG to Ph.D. | - |
| Ph.D. to Post-Doctoral | - |
| Employed through | |
| • Campus selection | 4/(77)=5.19 |
| • Other than campus recruitment | 4/(77)=5.19 |
| Entrepreneurship/Self-employment | - |

30. Details of Infrastructural facilities

| Sr. No | Infrastructural facility | Details | | | | | Number |
|--------|--|----------------------------------|---------|-------|-------|---------------------------------|-------------------------------|
| | | Type | 2013-14 | 14-15 | 15-16 | 16-17 | |
| 1 | Library | Books (Volumes) | 769 | 429 | 484 | 126 (till 16/11/2016) | |
| | | Journals | 10 | 10 | 10 | 10 | |
| | | e-Journal | 01 | 01 | 01 | 01 | |
| | | | | | | | |
| 2 | Departmental Library | Books | 42 | 56 | 39 | 37 | |
| 3 | Internet facility for staff and students | Computers | | | | 45 | 41 |
| | | Computers with Internet facility | | | | 45 | 41 |
| | | Bandwidth | | | | 02Mbps | |
| 4 | Classrooms | with ICT facility | | | | 03 | 03 |
| 5 | Laboratories | Under Graduate | | | | 11 | 11 |
| 6 | Seminar Room | With ICT | | | | 01 (common For all branches) | 01 common For all branches |
| 7 | Tutorial Room | Under Graduate | | | | 01 | 01 |
| 8 | Major Equipment's: Server | Server | | | | 01 (common) | 01 common |
| 9 | UPS | 20 KVA UPS (For FE &Civil Dept.) | | | | 01 | 01 |

31. Number of students receiving financial assistance from college, university, government or other agencies

Amount of Scholarships and Freeships sanctioned for FY 2014-2015

| FY 2014-2015 | | | | |
|-----------------|----------------------------------|------------------------|---------------------|------------------|
| Category | No. of students given Assistance | Scholarship Amount Rs. | Freeship Amount Rs. | Total Amount Rs. |
| SC | 334 | 17931787 | 11398988 | 29330775 |
| ST | 62 | 2014963 | 2929781 | 4944744 |
| DTNT | 228 | 12320751 | 5175390 | 17496141 |
| SBC | 47 | 1956251 | 1728982 | 3685233 |
| OBC | 457 | 10601843 | 7637467 | 18239310 |
| EBC | 351 | 12943093 | NA | 12943093 |
| Muslim Minority | 3 | 90000 | NA | 90000 |
| Other Minority | 10 | 300000 | NA | 300000 |
| STC/PTC | 45 | 180000 | NA | 180000 |
| CSS | 19 | 190000 | NA | 190000 |
| Total | 1556 | 58528688 | 28870608 | 87399296 |

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

- Training Program : 07
- Special Lecture : 27
- Webinar Sessions :nil
- Workshop : 04
- Tutorial Session :NIL
- Others :NIL

| Sr. No. | Type of Enrichment programme | Topic | Target audience | Duration | Details of Expert |
|---------|------------------------------|-------------------------------------|-----------------|------------------------------|-------------------------------|
| 1 | Special Lecture | Guest lecture on Surveying | SE | 29 th August 2013 | Mr. Alatgi P.S. & Alatgi S.A. |
| 2 | Special Lecture | “Journey through concrete jungle” | SE | 15 th Jan 2014 | Mr. C. M. Dordi |
| 3 | Special Lecture | “Self Analysis and Professionalism” | SE | 19 th March 2014 | Dr. Chandratre V. P. |
| 4 | Special Lecture | “Stresses in Soil” | SE | 18 th July 2014 | Prof V. R. Phadke |
| 5 | Special Lecture | “Infrastructure Engineering” | TE | 22 nd July 2014 | Prof V. R. Phadke |

| | | | | | |
|----|-----------------|--|-----------------------|--|--------------------------------------|
| 6 | Special Lecture | “Monorail – Concept to Commencement” | SE & TE | 25 th July 2014 | Er. Pradeep Singh |
| 7 | Special Lecture | “Corporate culture and etiquettes” | TE | 9 th Sept 2014 | Mr Rishi Kappal |
| 8 | Training | Aptitude and soft skill Training | SE | 2014-15 (60 Hrs) | Raunak Shah |
| 9 | Special Lecture | Guest Lecture on Structural Design II | TE | 13 th Feb 2015 | Prof.V.L.Shah |
| 10 | Special Lecture | Guest Lecture on Environmental Engineering | TE | 2 th March 2015 | Dr.Sandip Mali |
| 11 | Workshop | Two days workshop on “India’s Biggest Civil Championship2015”(Bridge Design Contest) | TE | 14 th and 15 th March 2015 | ARK Techno solutions, Mumbai. |
| 12 | Special Lecture | "Success Mantra - How to make your dreams a reality" | SE, TE and BE | 04 th July, 2015 | Mrs. Meera Natrajan |
| 13 | Special Lecture | “Recent Trends in Structural Design” | TE & BE | 10 th July 2015 | Mr. Prashant Pokharkar |
| 14 | Special Lecture | “Pavement Construction Method” | BE | 17 th Jul., 2015 | Dr. D.R. Jundhare |
| 15 | Workshop | The “Seismic Design of Building using SAP 2000 & ETABS | BE | 28 th Aug to 29 th Aug 2015. | M/s. Skyfi Labs Pvt. Ltd., Bangaluru |
| 16 | Special Lecture | “Stresses in Soil” | SE | 4 th Sept., 2015 | Mrs. S.S. Jain |
| 17 | Special Lecture | “Low Cost treatment for waste water” | BE | 13 th Sept., 2015 | Mrs. Pranjali Chiwahane |
| 18 | Workshop | Two Days Workshop on ‘Dams and Hydraulic Structures’ | BE Students and Staff | 8 th and 9 th December 2015 | Renowned personalities from SPPU |

| | | | | | |
|----|-----------------|--|-----------------------|--------------------------------|---|
| 19 | Workshop | One day workshop on “Hands-on Training of Solution Preparation for Practical of Environmental Engineering” | BE Students and Staff | 11 th December 2015 | Dr. S.T. Mali Dr. Priya Joshi Mr. R. T. Jagtap Ms. Falguni Bhavsar |
| 20 | Training | Aptitude and soft skill Training | SE | 15/12/15 to 23/3/16 (40 hrs) | Mind active cosulting private Ltd |
| 21 | Special Lecture | “Finance management” | BE | 1 st Jan 2016 | Ritesh Phalke |
| 22 | Special Lecture | “Research area of nanotechnology in environmental projects” | T.E and B.E | 6 th Jan 2016 | Mr. Harshraj Thakor |
| 23 | Special Lecture | Career Guidance & Preparation for MPSC” | TE& BE | 8 th Feb 2016 | Mr. Malkeet Singh Reyad |
| 24 | Special Lecture | “Pune BRTS” | BE, TE & SE | 18 th Feb 2016 | Dr. D. R. Jundhare |
| 25 | Special Lecture | “Basics and advances of Chemistry in Environmer Engineering” | TE | 17 th Feb 2016 | Mr. R. T. Jagtap |
| 26 | Special Lecture | "Fundamentals of Structure and analysis of elemental structures" | SE | 26 th Feb 2016 | Mr. P.B. Kodag, |
| 27 | Special Lecture | "Project Management Consultancy (PMC)" | TE and BE | 9 th March 2016 | Mr. Pradip Shinkar, |
| 28 | Special Lecture | “Recent trends in RCC design” | TE & SE | 3 rd March 2016 | Dr. V.L. Shah |
| 29 | Special Lecture | Advancement in Highway Construction | T.E and B.E | 22 nd July 2016 | Mr. Vikas Thakar MD, PAVETECH CONSULTANT S INDIA LTD, Narhe, Pune. |
| 30 | Special Lecture | Career Opportunities in Civil Engineering | S.E | 05 th Aug 2016 | Prof. V.R.Phadake |

| | | | | | |
|----|--------------------|--|------------------------|---------------------------------------|--|
| 31 | Training | CAD masters | SE (42) | 24/8/16 to 18/09/16 36 hrs | Mesers SACE pvt ltd. (Auto desk Authrised partner) |
| 32 | Training | STAAD Masters | TE BE (38) | 30/8/2016 to 18/9/2016 (42 hrs) | Mesers Bently inst. pvt ltd. Prabha consultancy |
| 33 | Special Lecture | Principle Stresses | S.E | 16 th Sept2016 | Dr. S. R. Parekar Professor and HoD, AISSMS College of engineering |
| 34 | Special Lecture | Role of civil engineer in construction of bridges | S.E | 21 st Sept2016 | Mr. P. G. Pagnis B.E (Civil) , Retired Civil Engineer |
| 35 | Special Lecture | Soft computing technique for air quality assessment | Faculties | 10 th Sept 2016 | Dr. Shruti Tikhe |
| 36 | Training | On-site Training organized by Builders Association of India, Pune Chapter | T. E & B. E | Dec, 2015 | BAI, Pune |
| 37 | Training | On-site Training organized by Builders Association of India, Pune Chapter | S. E. , T. E & B. E | May, 2016 | BAI, Pune |
| 38 | Training | On-site Training organized by Builders Association of India, Pune Chapter | S. E. & T. E | Dec-2016 | BAI, Pune |

33. Teaching methods adopted to improve student learning

1. Practical relevance of theoretical concepts through experiment conduction, arranging site visits, mini projects, models, etc.
2. Use of adequate teaching aids viz. presentations, videos, etc. for better understanding and visualization of the subject.
3. Effective conduction of internal examinations.
4. Extra efforts towards weak learners to improve their performance.
5. Effective use of ICT Facilities for teaching & learning purpose.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

ISR and Extension activities are organized under the aegis of various clubs like NSS, CiESA, at the Institute.

| Sr. No | Type of activity | Details of Activity | No of Participants (Faculty & Students) |
|---------------------|-------------------|---|---|
| Year 2016-17 | | | |
| 1 | N.S.S Activities. | Tree Plantation Event at Water Treatment Plant, Nigdi on 25 th June 2016 | 35 |
| 2 | | Tree Plantation Event at Chimbli Phata, Chakan on 1 th July 2016 | 45 |
| 3 | | Food Donation to Palakhi Warakari on 28 th June 2016 | 40 |
| 4 | | Guest lecture on Parking Survey for Pune Municipal Corporation 23 June 2016 | 60 |
| 5 | | Parking Survey for Pune Municipal Corporation | 33 |
| Year 2015-16 | | | |
| 1. | Social Awareness | Anti-Tobacco Campaigning | 250 |
| 2. | | Construction of Bandhara at Yelase village Tal: Mulshi, Pune | 80 |
| 3. | | Donation of useful items to Aadhar Orphanage Nigdi | 80 |
| 4. | | Food distribution stall at Bhakti-Shakti, Nigdi during Palkhi sohla | 150 |
| Year 2014-15 | | | |
| 1. | CiESA | Tree plantation at PCCOE campus | 250 |

35. SWOC analysis of the department and Future plans

Strengths:

- Stringent execution & monitoring of academic process.
- Experienced & qualified faculty.
- Good academic results.
- Field exposure through site visits & BAI Training.
- Enhancement in teaching competency through Add-on courses like AUTO-CAAD, STAAD PRO etc.

Weaknesses:

- Overall contribution in research & innovation needs to be improved and No. of publications in journals by faculty.

Opportunities:

- Testing & consultancy
- Starting PG programme in Civil Engineering.

Challenges:

- Placement of students in core companies.

Future Plans:

- Starting Post graduation course in civil engineering.
- Establishing MOUs with Civil Engineering Professional bodies/chapters, academic/research organizations.
- Funded research projects with collaboration of government and private organization.
- To conduct Student Development Programmes based on site required and emerging technologies.

Evaluative Report of First Year Engineering Department

1. **Name of the department** : First Year Engineering
2. **Year of Establishment** : 1999
3. **Names of Programmes / Courses offered** : Bachelor of Engineering (First Year)

4. Names of Interdisciplinary courses and the departments / units involved

| Sr. No. | Department Name | Subject Offered |
|---------|--|---|
| 1 | Department of Mechanical Engineering | Basic Mechanical Engineering, Engineering Graphics-I & II, Workshop Practices |
| 2 | Department of Electronics & Tele communication Engineering | Basic Electronics Engineering |
| 3 | Department of Computer Engineering | Fundamental Programming Language I & II |
| 4 | Department of Information Technology | Fundamental Programming Language I & II |
| 5 | Department of Civil Engineering | Basic Civil Engineering, Engineering Mechanics |

5. Annual/ semester/choice based credit system (programme wise):

| Sr.No. | Programme | Credit System |
|--------|-----------|--|
| 1 | UG | <ul style="list-style-type: none"> • Credit system is started from 2015-2016 by SPPU, Pune. |

6. Participation of the department in the courses offered by other departments

| Sr. No. | Department Name | Subject Offered |
|---------|---|--|
| 1 | M.E. (Design Engineering) | Advanced Mathematics (507201) |
| 2 | M.E. (Heat Power Engineering) | Advanced Mathematics and Numerical Methods (507101) |
| 3 | M.E. (Information Technology Engineering) | Mathematical Foundation of Information Technology (514401) |
| 4 | S.E. Mechanical, Computers, IT, Civil, E&TC | Engineering Mathematics III |
| 5 | S.E. (Mechanical) | Electronics and Electrical Engineering |

7. Courses in collaboration with other universities, industries, foreign institutions, etc.

NA.

8. Details of courses / programmes discontinued (if any) with reasons

NA.

9. Number of Teaching posts

| Title | Sanctioned | Filled |
|---------------------|------------|--------|
| Professor | Nil | Nil |
| Associate Professor | 06 | 01 |
| Assistant Professor | 21 | 21 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)**Academic Year 2016-17**

| Sr. No. | Faculty Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---------|----------------------|-------------------------------|---------------------|----------------|----------------------------|---|
| 1 | Mrs.S.A.Fulam barkar | M.SC.(Phy) , B.ED | Associate Professor | Physics | 29 | - |
| 2 | Mrs.A.A.Sakurkar | M.Sc.(Physics) | Assistant Professor | Physics | 15 | - |
| 3 | Mr.Jayant Yadav | M.SC.(Phy) , B.ED | Assistant Professor | Physics | 3.3 | - |
| 4 | Mr.R.T.Jagtap | M.Sc.(Chem.) Ph.D. Appear | Assistant Professor | Chemistry | 23 | - |
| 5 | Dr.Priya Joshi | M.Sc.(Chem.) Ph.D. | Assistant Professor | Chemistry | 14.5 | - |
| 6 | Ms.Falguni Bhavsar | M.Sc.(Chem.), B.ED | Assistant Professor | Chemistry | 5.5 | - |
| 7 | Dr.Leena Sharma | M.Sc. (Maths) , Ph.D. | Assistant Professor | Mathematics | 12 | - |
| 8 | Dr.Surabhi Sengar | M.Sc. (Maths), M.Phil. Ph.D. | Assistant Professor | Mathematics | 6.5 | - |
| 9 | Mrs.Ashwini Vaze | M.Sc. (Maths) | Assistant Professor | Mathematics | 8.11 | - |
| 10 | Mr.Arif Bagwan | M.Sc. (Maths),Ph. D. Pursuing | Assistant Professor | Mathematics | 9.5 | - |
| 11 | Niharika Upadhyaya | M.Sc. (Maths),Ph. D. Pursuing | Assistant Professor | Mathematics | 6.6 | - |

| | | | | | | |
|----|-----------------------|-----------------------------------|---------------------|-------------|-----|---|
| 12 | Mrs.Meera Natrajan | M.Sc. (Maths), M.Phil. | Assistant Professor | Mathematics | 12 | - |
| 13 | Mrs. Nishi Gupta | M.Sc. (Maths), M.Phil. | Assistant Professor | Mathematics | 6 | - |
| 14 | Mrs.Suvarna Shete | BE Electrical, M.E. Pursuing | Assistant Professor | E & Tc | 9 | |
| 15 | Mrs. P. A. Jog | ME (P S) | Assistant Professor | E & Tc | 10 | - |
| 16 | Mrs. Anshumati Amte | ME (E P S) | Assistant Professor | E & Tc | 6 | |
| 17 | Dr. S. S. Sonar | M.Sc.(Chem.) Ph.D. | Assistant Professor | Chemistry | 15 | - |
| 18 | Mrs. Anu Thomas | M.Sc. (Physics), M.Phil. | Assistant Professor | Physics | 6.5 | |
| 19 | Mrs. Minakshi Panchal | M.Sc. (Maths) | Assistant Professor | Mathematics | 8 | |
| 20 | Mrs.Sujata Bhamre | M.Sc. (Maths), M. phil. Appearing | Assistant Professor | Mathematics | 8.5 | |
| 21 | Mrs. G.V.Saxena | ME (E S I) | Assistant Professor | E & Tc | 7.5 | |
| 22 | Mrs. Puja Kate | ME Power System | Assistant Professor | E & Tc | 5.1 | |

11. List of senior visiting faculty

Nil.

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Nil.

13. Student -Teacher Ratio (programme wise)

Academic Year: 2016-17

| Program | Student Ration |
|----------------|----------------|
| Under Graduate | 17.63:1 |

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

| Title | Sanctioned | Filled |
|-----------------------|------------|--------|
| Laboratory Assistants | 3 | 3 |
| Laboratory Attendant | 01 | 01 |
| Clerk | 01 | 01 |
| Peon | 04 | 04 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| Qualification | Number of Teaching Faculty |
|------------------|----------------------------|
| PhD | 04 |
| MPhil | 04 + (01 Appearing) |
| ME / MTech / MSc | 12 + (01 ME Appearing) |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

| Funding Agency | Number of Projects |
|------------------|--------------------|
| a) National | Nil |
| b) International | Nil |

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

| Funding Agency | Number of Projects |
|----------------|--------------------|
| DST | - |
| UGC | - |
| AICTE | - |
| BCUD | 1 |

| Sr. No. | Academic Year | Faculty Name | Title of the Project | Funding Agency | Grants Received Rs. |
|---------|---------------|-----------------|--|----------------|---------------------|
| 1 | 2012-14 | Mr. R.T. Jagtap | Mitigation of Nitrate from water by chitosan based Bio composite Adsorbents. | BCUD, SPPU | 200000 |

18. Research Centre /facility recognized by the University

NA.

19. Publications:

Faculty has published research papers in reputed National and International journals.

A) Publication total-

| Sr. No. | Name of the Faculty | After joining |
|---------|------------------------|---------------|
| 1 | Dr. Surabhi Sengar | 11 |
| 2 | Dr. Leena Sharma | 08 |
| 3 | Dr. Priya Joshi | 03 |
| 4 | Mrs. Niharika Upadhyay | 05 |
| 5 | Mr. Arif Bagwan | 01 |
| 6 | Mrs. Pranjal Jog | 01 |
| 7 | Mrs. Puja Kate | 01 |
| 8 | Mrs. Anshumati Amte | 01 |
| 9 | Dr. S. S. Sonar | 01 |

B) Number of papers published in peer reviewed journals (national / international) by faculty and students

Total no. of National Journals : 07
Total no. of International Journals : 25
Total no. of International Conferences: 00

| Academic Year | National Publication | International Publication |
|---------------|----------------------|---------------------------|
| 2015-16 | Nil | 07 |
| 2014-15 | Nil | 09 |
| 2013-14 | Nil | 01 |
| 2012-13 | Nil | 02 |

C) Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): 02

D) Monographs, Chapters in book authored, Books edited, Books published:- Nil

E) Books with ISBN/ISSN numbers (Details- Name, Publication, Year)

Total Book published: Nil

20. Areas of consultancy and income generated

Nil.

21. Faculty as members in

| Sr.No. | Committee | No. of Faculty |
|--------|---------------|----------------|
| 1 | International | Nil |

| | | |
|---|-----------|-----|
| 2 | National | Nil |
| 3 | Editorial | Nil |

| Sr. No. | Name of the Faculty | Committee | Membership Id. |
|---------|------------------------|---|----------------|
| 1 | Mrs. S. A. Fulambarkar | ISTE | LM (19245) |
| 2 | Mrs. Fulambarkar S.A. | Indian Association of Physics Teachers | 10241, L6510 |
| 3 | Mrs. Sakurkar A. A. | Indian Association of Physics Teachers | 10243, L6512 |
| 4 | Mrs. Anu Thomas | Indian Association of Physics Teachers | |
| 5 | Mr. Jayant Yadav | Indian Association of Physics Teachers | L6509 |
| 5 | Dr. Leena Sharma | The Indian Mathematical Society | L/2014/116 |
| 6 | Dr. Leena Sharma | Gwalior Academy of Mathematical science | |
| 7 | Dr. Leena Sharma | National academy of Mathematical Sciences | |
| 8 | Dr. Surbhi Sengar | The Indian Mathematical Society | L/2014/117 |
| 9 | Ashwini N. Vaze. | The Indian Mathematical Society | L/2014/118 |
| 10 | Minakshi S. Panchal. | The Indian Mathematical Society | L/2014/119 |
| 11 | Niharika Upadhyay. | The Indian Mathematical Society | L/2014/131 |
| 12 | Mrs. Meera G N | Indian Society of Technical Education | |
| 13 | Mrs. Meera G N | Cryptology Research Society of India | |
| 14 | Dr. S. S. Sonar | Analytical chemistry Teachers & researchers association | |

22. Student projects

- a) **Percentage of students who have done in-house projects including inter departmental / programme**
NA.
- b) **Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies**
NA.

23. Awards / Recognitions received by faculty and students

Awards / Recognitions received by Students:

| Sr. No. | Name of the Student | Year | Event | Organised by | Prize details |
|---------|--------------------------|---------|---|---|---------------------------------------|
| 1 | Aasish Ramesh | 2015-16 | Digicomp on 15/09/15 | Department of Computer Engg., PCCOE | Ist Winner |
| 2 | Bodiger Suyash Suresh | | Poster Competition by Techno Science Club | FE Dept, PCCOE | Winner |
| 3 | Vinay Gumma | | Poster Competition by Techno Science Club | FE Dept, PCCOE | Winner |
| 4 | Karanjkar Balaji | | Poster Competition by Techno Science Club | FE Dept, PCCOE | Winner |
| 5 | Khamkar Akash | | Poster Competition by Techno Science Club | FE Dept, PCCOE | Winner |
| 6 | Antara Muley | | Poster Competition by Techno Science Club | FE Dept, PCCOE | Winner |
| 7 | Gargee Patil | | Poster Competition by Techno Science Club | FE Dept, PCCOE | Winner |
| 8 | Sayanee Chitta Nanda | | Aptitude Hunt, by R&D Cell | FE Dept, PCCOE | Winner |
| 9 | Virendra Nichit | | Aptitude Hunt, by R&D Cell | FE Dept, PCCOE | Winner |
| 10 | Shruti Padalkar | | Matholic ,Puzzle Competition | FE Dept, PCCOE | Winner |
| 11 | Pranita Phadtare | | Matholic ,Puzzle Competition | FE Dept, PCCOE | Winner |
| 12 | Abhishek Patil | | Aptitude Hunt, by R&D Cell | FE Dept, PCCOE | Winner |
| 13 | Pranita Phadtare | | Matholic ,Puzzle Competition | FE Dept, PCCOE | Winner |
| 14 | Salman Siddhiki | | Matholic ,Puzzle Competition | FE Dept, PCCOE | Winner |
| 15 | Aditya Belhekar | | Intelligent Design-2D | COEP | Participation |
| 16 | Ayesha Mohd Hanif Shaikh | | Basketball tournament | SPPUniversity at Jaihind college Pimpri | Selected for Zonal |
| 17 | Saurabh Sanjay Vaidya | | Poster making competition | FE Dept, PCCOE | Winner |
| 18 | Shraddha Arote | | 2st Week Technoscience Club Quiz | FE Dept, PCCOE | Participated and secured 1nd position |
| 19 | Kalyani Bhase | | Poster making competition "Say no to child labour"Wall magazine | FE Dept, PCCOE | Participated and won 1st prize |
| 20 | Tejas Chaudhari | | Poster making competition | FE Dept, PCCOE | Participated and one 1st |

| | | | | | |
|----|------------------|--|---|-------------------------------|---------------------------------------|
| | | | “Technology that will disappear in next 5 years”, Technoscience Club | | prize |
| 21 | Snehal Chaudhari | | 2st Week Technoscience Club Quiz | FE Dept, PCCOE | Participated and secured 1nd position |
| 22 | Ashitosh Dhapate | | 1st Week Technoscience Club Quiz | FE Dept, PCCOE | Participated and secured 2nd position |
| | | | Poster making competition “Flying high with reading” | Reader's Club, FE Dept, PCCOE | Participated and won 3rd Prize |
| | | | Matholic activity | FE Dept, PCCOE | Participated and stood 5th position |
| | | | Poster making competition “Flying high with reading” Reader's Club | FE Dept, PCCOE | Participated and won 3rd Prize |
| 23 | Sanket Dhumane | | Matholic activity | FE Dept, PCCOE | Participated and stood 11th position |
| | | | Wall Magazine, Poster making competition “Ganpati and environment friendly” | FE Dept, PCCOE | Participated and won 1st prize |
| | | | Aptitude Hunt | FE Dept, PCCOE | Participated and won 2nd prize |
| 24 | Prashant Gautam | | Poster making competition “Flying high with reading” ,Readers Club | FE Dept, PCCOE | Participated and won 3rd Prize |
| 25 | Dhanashree Jain | | 2st Week Technoscience Club Quiz | FE Dept, PCCOE | Participated and secured 1nd position |
| 26 | Vaishnavi Kakade | | 3st Week Technoscience Club Quiz | FE Dept, PCCOE | Participated and secured 2nd position |
| 27 | Vaishnavi Kakade | | Poster making competition “Paperless World”, Technoscience Club | FE Dept, PCCOE | Participation |

| | | | | | |
|----|-----------------------------------|--|---|----------------|--------------------------------------|
| 28 | Shivani Kannan | | Matholic activity | FE Dept, PCCOE | Participated and stood 18th position |
| 29 | Karanje Atharva Satish | | Matholic activity | FE Dept, PCCOE | Participated and stood 7th position |
| 30 | Aditya Khadse | | Aptitude Hunt | FE Dept, PCCOE | Participated and won 2nd prize |
| 31 | Ayushi Dharpure | | Poster making competition "Flying high with reading", Reader's Club | FE Dept, PCCOE | Participated and won 3rd Prize |
| 32 | Anupreeta Kharabe | | Matholic activity | FE Dept, PCCOE | Participated and stood 4th position |
| 33 | Mr. Aniket Wakde | | Matholic ,Puzzle Competition | FE Dept, PCCOE | Winner (3rd Position) |
| 34 | Shubham Basarkar | | Aptitude Hunt | FE Dept, PCCOE | Winner |
| 35 | Prasad Dhumane | | Aptitude Hunt | FE Dept, PCCOE | Winner |
| 36 | Mansi Gaikwad | | Aptitude Hunt | FE Dept, PCCOE | Winner |
| 37 | Manasi Gaikwad | | Readers Club | FE Dept, PCCOE | Winner |
| 38 | Rhuta Joshi | | Readers Club | FE Dept, PCCOE | Winner |
| 39 | Mahajan Tejashree Vasudev | | Wall Magazine Club Activity | FE Dept, PCCOE | Winner(Second Prize) |
| 40 | More Dipti Vinod | | Cultural Club (Talent Hunt) Group Dance | FE Dept, PCCOE | Participation /Winner |
| 41 | Patel Yogita Ashish | | Wall Magazine Club Activity | FE Dept, PCCOE | Winner(Third Prize) |
| 42 | Patel Utkarsh Dharmendra Kr Singh | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 43 | Pathak Vivek Dilip | | Matholic Activity Winners | FE Dept, PCCOE | Winner |
| 44 | Patil Anagha Ramchandra | | Wall Magazine Club Activity | FE Dept, PCCOE | Winner(Second Prize) |
| 45 | Patil Anagha Ramchandra | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 46 | Patil Aishwarya Raosaheb | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |

| | | | | | |
|----|-----------------------------------|--|---|-------------------|--------------------------|
| 47 | Pethkar Snehal Prashant | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 48 | Shah Tejal Arvind | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 49 | Sangle Aditya Sanjay | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 50 | Shelgaonkar Kalyani Avinash | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 51 | Shelkar Ritika Gajanan | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 52 | Shelkar Ritika Gajanan | | Wall Magazine Club Activity | FE Dept, PCCOE | Winner(Secon d Prize) |
| 53 | Shete Bharati Rajesh | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 54 | Shinde Buddhapriya Pravin | | Wall Magazine Club Activity | FE Dept, PCCOE | Winner(Secon d Prize) |
| 55 | Sridharan Ganeshprasad | | Cultural Club (Talent Hunt), Anchoring | FE Dept, PCCOE | Participation /Winner |
| 56 | Sridharan Ganeshprasad | | Matholic Activity Winners | FE Dept, PCCOE | Winner |
| 57 | Vishwakarma Suraj Dayaram | | Apptittude Hunt | FE Dept, PCCOE | Winner |
| 58 | Kakade Sandesh Kalyan | | Apptittude Hunt | FE Dept, PCCOE | Winner |
| 59 | Ruchika Putto | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 60 | Sushant Jillawar | | Techno Science Club, Poster Competition | FE Dept, PCCOE | Participation /Winner |
| 61 | Bharadwaj Akarsh Radheshyam | | Physics Club Activity | FE Dept, PCCOE | Winner |
| 62 | Bharti Ashish | | CESA Event, Wall magazine , Matholic ,Puzzle Competition | FE Dept, PCCOE | Participation /Winner |
| 63 | Borole Aniket Vilas | | Physics Club Activity | FE Dept, PCCOE | Winner |
| 64 | Jayesh Chaudhari | | Matholic ,Puzzle Competition , Talent Hunt,by Cultural club | FE Dept, PCCOE | Winner |
| 65 | Akshaykumar Deshmukh | | Matholic ,Puzzle Competition | FE Dept, PCCOE | Winner |

| | | | | | |
|----|------------------------------|--|--|----------------|-----------------------|
| 66 | Digge Shubhaang Sangamnath | | Football | FE Dept, PCCOE | Runner Up |
| 67 | Komatwar Nilesh | | Physics Club Activity, Business Idea Preparation | FE Dept, PCCOE | Participation /Winner |
| 68 | Mantur Akash M. | | Physics Club Activity , Matholic ,Puzzle Competition | FE Dept, PCCOE | Winner |
| 69 | Arun Nair | | Aptitude Hunt, by R&D Cell | FE Dept, PCCOE | Winner |
| 70 | Ladkhedkar Mrunmayee Arun | | Poster Competition | FE Dept, PCCOE | 1st Winner |
| 71 | Memon Ahad Yousuf | | Physics workshop, Quiz competition ,Physics club , | FE Dept, PCCOE | 2nd Winner |
| 72 | Mirajgave Shivkumar Nilkanth | | Physics workshop, Quiz competition | FE Dept, PCCOE | 2nd Winner |
| 73 | Mirajgave Shivkumar Nilkanth | | Poster Competition by Techno Science Club | FE Dept, PCCOE | 2nd Winner |
| 74 | Nandargi Akash Rajshekhar | | Physics workshop, Quiz competition,Physics club | FE Dept, PCCOE | 2nd Winner |
| 75 | Patil Aditi Anil | | Poster Competition by Techno Science Club | FE Dept, PCCOE | 2nd Winner |
| 76 | Patil Mrunal Manohar | | Poster Competition | FE Dept, PCCOE | 1st Winner |
| 77 | Potdar Omkar Rajkumar | | Physics workshop, Quiz competition,Physics club | FE Dept, PCCOE | 2nd Winner |
| 78 | Prabhu Neha Pradip | | Poster Competition,Readers club | FE Dept, PCCOE | 1st Winner |
| 79 | Ratnaparkhe Aditya Abhay | | Matholic ,Puzzle Competition | FE Dept, PCCOE | Winner |
| 80 | Tarte Akanksha Rajkumar | | Poster Competition,Readers club | FE Dept, PCCOE | 1st Winner |
| 81 | Patil Abhijeet R | | Poster Competition by Techno Science Club | FE Dept, PCCOE | |
| 82 | | | Matholic ,Puzzle | FE Dept, | Winner |

| | | | | | |
|----|---------------------|--|--|-------------------|--------------------------|
| | | | Competition | PCCOE | |
| 83 | Maru Mohit | | Poster Competition by Techno Science Club | FE Dept, PCCOE | |
| 84 | Mr. Saransh Dave | | Matholic ,Puzzle Competition | FE Dept, PCCOE | 1st Winner |
| 85 | Siddhant G | | SSB Interview | -- | 1st level selection |
| 86 | Nirupam M. | | District Level Basketball Matches | -- | State level selection |

24. List of eminent academicians and scientists / visitors to the department

| S.N. | Name of the academician/scientist | Designation | Organization | Duration | Purpose of Visit |
|------|-----------------------------------|---|--|------------|--|
| 1 | Mr. Hemant Barge | Manufacturing Head | Tata motors, Pune. | 20/03/2016 | To address our students as Chief Guest of Spectrum 2016 |
| 2 | Dr. Sanjay Dhole | Professor | Department of Engineering Physics, SPPU, Pune | 20/03/2016 | To address our students as Chief Guest of Spectrum 2016 |
| 3 | Mr. Sanjiv Shinde | General Manager | Forbes Marshal, Pune | 20/03/2016 | To address & guiding our students as Guest in Spectrum 2016 |
| 4 | Mrs. Mahua Gorai | Assistant Professor | D. Y. Patil College of Engineering, Pimpri, Pune | 20/03/2016 | For guiding & Judging the events of Spectrum 2015 |
| 5 | Prof. R. S. Mali | Ex. Vice Chancellor | North Maharashtra University, Jalgaon | 27/03/2015 | To address 7 guiding our students as Chief Guest of Spectrum 2015 |
| 6 | Mr. Anant Kshirsagar | General Manager of heating & cooling Division | Thermax, Pune | 27/03/2015 | To address & guiding our students as Guest of honour Spectrum 2015 |
| 7 | Mr. Sunil Mehta | General Manager | Mitsubishi Electric, India PVT. Limited, Pune | 27/03/2015 | To address & guiding our students as Guest in Spectrum 2015 |
| 8 | Mr. K. T. Chaugule | Assistant Manager | Mitsubishi Electric, India PVT. Limited, | 27/03/2015 | To address & guiding our students as |

| | | | | | |
|----|-----------------------|---------------------|--|------------|--|
| | | | Pune | | Guest in Spectrum 2015 |
| 9 | Dr. Vidhya Awasare | Associate Professor | , Sir Hurambhau College, Pune | 27/03/2015 | To address & guiding our students as Guest in Spectrum 2015 |
| 10 | Dr. P. S. Patil | Associate Professor | Sinhgad Institute of Technology, Lonawala | 27/03/2015 | For guiding & Judging the events Paper Presentation of Spectrum 2015 |
| 11 | Mr. Dilip Dhopavkar | Mg Partner | Everest business Electromagnetic, Pune | 15/03/2014 | To address our students as Chief Guest of Spectrum 2014 |
| 12 | Mr. Achyut Godbole | Managing Director | Soft excel consultancy services, Pune | 15/03/2014 | To address our students as Guest of honour Spectrum 2014 |
| 13 | Dr. Ravindra Jaydhaye | O. S. D. | Board of College & University Development (BCUD) UoP, Pune | 24/03/2013 | To address our students as Chief Guest of Spectrum 2013 |
| 14 | Mr. Satish Kalokhe | Chairman | Quality Circle Forum Of India, Pune circle. | 24/03/2013 | To address our students as Guest of honour Spectrum 2013 |
| 15 | Prof. S Bandgar | Professor | JSPM imperial College of Engineering & Research, Pune. | 19/02/2012 | For guiding & Judging the events Paper Presentation of Spectrum 2012 |
| 16 | Dr. R. P. Thanedar | Professor | College of Engineering, Pune | 19/02/2012 | For guiding & Judging the events Paper |

| | | | | | |
|----|-------------------------------|--------------------|---|------------|---|
| | | | | | Presentation of Spectrum 2012 |
| 17 | Mr. Chandra shekher Dhamankar | General Manager | Forbes Marshell, Pune. | 19/02/2012 | To address our students as Chief Guest of Spectrum 2012 |
| 18 | Mr. Prashant Puple | Founder Chairman | Enviro bulk handling system Pvt. LTD, Pune | 19/02/2012 | To address our students as Key note speaker of Spectrum 2012 |
| 19 | Mr. N. S. Majumdar | Executive Director | Nutan Mahavidhyalay Education society, Talegaon, Pune | 19/02/2012 | To address our students as Key note speaker of Spectrum 2012 |
| 20 | Prof. D. B. Limaye | Retired Professor | | 19/02/2012 | For guiding & Judging the events Spot Model Making of Spectrum 2012 |
| 21 | Mrs. Meghana Bombra | Trainer | Metaphor Training Services, Pune. | 19/02/2012 | For guiding & Judging the events Debate competition |

25. Seminars/ Conferences/Workshops organized & the source of funding

- National** - Nil
- International** – Nil
- State Level**

| Sr. No. | Name of the Seminar/Conference Workshop | Funding Agency |
|---------|---|------------------------------|
| 1. | “Applications and Relevance of Applied Sciences in Bioinformatics” (AY: 2015-16) | BCUD, SPPU, Pune. (100000/-) |
| 2. | 1 day workshop on “Hands on training of solution preparation for practical Environmental Engineering” (AY: 2014-15) | ISTE |

26. Student profile programme /course wise:

NA

27. Diversity of Students

| Name of the Course | Academic Year | % of students from the same state | % of students from other States | % of students From abroad |
|------------------------|---------------|-----------------------------------|---------------------------------|---------------------------|
| First Year Engineering | 2015-16 | 95.36 | 4.63 | Nil |
| | 2014-15 | 92.71 | 7.2 | Nil |
| | 2013-14 | 97.0 | 3 | Nil |
| | 2012-13 | 85.6 | 14.4 | Nil |
| | 2011-12 | 97.3 | 2.7 | Nil |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

NA.

29. Student progression

NA.

30. Details of Infrastructural facilities

- **Library:** We have central library in our institute in which a wide collection of books is available for the students along with this we have a departmental library for the students also.
- **Class rooms with ICT facility:** Three are 08 class rooms with ICT facility in the department along with this 21 faculty cabins and 01 HoD cabin.
- **Tutorial Room:** 01
- **Laboratories:** As first year engineering department is associated with all the departments so as per the requirement of curriculum 9 labs are associated with First year engineering. For the details please refer the following table:

Basic science/engineering laboratories:

| Laboratory Description | Space, No. of students | software used | Types of experiments & no. | Quality of instruments | Laboratory manuals |
|---|------------------------|---|--|--------------------------|--------------------|
| Engineering Physics | 150 Sq. m. 21 | NIL | Performance 8 | Standardized, Calibrated | YES |
| Engineering Chemistry | 150 Sq. m. 21 | NIL | Performance 8 | Standardized, Calibrated | YES |
| Basic Electrical Engineering | 80 Sq. m. 21 | NIL | Performance - 5 Demonstration - 4 | Standardized, Calibrated | YES |
| Basic Electronics Engineering | 75 Sq. m. 21 | NIL | Performance - 8 Demonstration - 1 | Standardized, Calibrated | YES |
| Basic Civil & Environmental Engineering | 64 Sq. m. 21 | NIL | Performance - 06 Demonstration - 02 | Standardized, Calibrated | YES |
| Engineering Mechanics | 64 Sq. m. 21 | NIL | Performance - 05 | Standardized, Calibrated | YES |
| Fundamentals of Programming Languages –I | 70 Sq. m. 21 | Linux OS, Eclipse, GCC | Performance - 12 Demonstration - 12 | Standardized | YES |
| Fundamentals of Programming Languages –II | 70 Sq. m. 21 | Linux OS, Eclipse with C++ , Java , Android | Performance - 12 Demonstration - 12 | Standardized | YES |
| Basic Mechanical Engineering | 72 Sq. m. 21 | NIL | Demonstration - 8 | Standardized | YES |
| Engineering | 72 Sq. m. | NIL | | | |

| | | | | | |
|--------------------------|------------------|----------------|-----------------|----------|-----------|
| Graphics –I | 21 | | | | |
| Engineering Graphics –II | 74 Sq. m. 21 | Auto CAD 15 | Performance - 5 | Standard | Available |
| Manufacturing processes | 309 Sq. m. 63 | NIL | Performance - 5 | Standard | Available |

Note:

1. As per UoP, total students in FE are divided in to two groups (Group A & Group B)
2. Group A has physics & Basic Electronics Engineering in semester I, Whereas Group B has Chemistry & Basic Electrical Engineering in semester I and vice versa in semester II.
3. Basic Civil & Environmental Engineering, Engineering Graphics –I & Fundamentals of Programming Languages –I & Manufacturing processes are common to all in semester I.
4. Engineering Mechanics, Basic Mechanical Engineering, Engineering Graphics –II &
5. Fundamentals of Programming Languages –II are common to all in semester II.

- Self learning center
- Internet facility for staff and students: There are 22 computers in the department for faculty members and additionally 22 computers are available for Lab use, self learning center, class rooms etc. with 16 mbps bandwidth. We have centralized computer lab in our institute for the students use.

31. Number of students receiving financial assistance from college, university, government or other agencies

| No. of graduate students getting financial assistance | | | | | |
|---|---------|---------|---------|---------|---------|
| Acad. Year | 2015-16 | 2014-15 | 2013-14 | 2012-13 | 2011-12 |
| SC | 353 | 334 | 304 | 247 | ---- |
| ST | 60 | 62 | 28 | 33 | ---- |

Financial Assistance given to the students by some other foundations

| Academic Year | Name of Scholarship | No of qualified students | No of students receiving scholarship | % of students receiving financial assistance |
|---------------|---------------------|--------------------------|--------------------------------------|--|
| 2015-16 | Leela Poonawala | 18 | 18 | 100 |
| | Cummins | 4 | 4 | 100 |
| | Persistent | 3 | 3 | 100 |

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

| Academic Year | No. of Guest Lectures | No. of Seminar Organized | No. of Workshops Organized |
|---------------|-----------------------|--------------------------|----------------------------|
| 2015-16 | 07 | Nil | 01 |
| 2014-15 | 02 | Nil | 01 |
| 2013-14 | 06 | Nil | 01 |
| 2012-13 | 02 | Nil | 01 |

| S. N. | Type of Enrichment Program | Year | Topic | Target audience | Duration | Details of Expert |
|-------|----------------------------|---------|-----------------------|---------------------|----------------------------|--|
| 1 | Guest Lectures | 2015-16 | Ethics & Morel values | B.E. (F Y Students) | 03/08/2015 | Mr. Anil Khurana & Mrs. Jyoti Kappal (Mind active Consulting Pvt. Ltd.), Pune |
| 2. | Guest Lectures | 2015-16 | Ethics & Morel values | B.E. (F Y Students) | 05/08/2015 | Mr. Anil Khurana & Mrs. Jyoti Kappal (Mind active Consulting Pvt. Ltd.), Pune |
| 3 | Guest Lectures | 2015-16 | Ethics & Morel values | B.E. (F Y Students) | 13/08/2015 | Mr. Anil Khurana & Mrs. Jyoti Kappal (Mind active Consulting Pvt. Ltd.), Pune |
| 4 | Guest Lectures | 2015-16 | “Innovation Suit” | B.E. (F Y Students) | 18/03/2016 (10:11:30) | Mr. Suryakant. M. Katti (Vice President Aditya Birla Group), Pune |
| 5 | Guest Lectures | 2015-16 | “Innovation Suit” | B.E. (F Y Students) | 18/03/2016 (12:00 to 1:30) | Mr. Suryakant. M. Katti |

| | | | | | | |
|----|--------------------------|---------|--|----------------------|---------------------------|---|
| | | | | | | (Vice President Aditya Birla Group), Pune |
| 6 | Guest Lectures | 2015-16 | “Innovation Suit” | B.E. (F Y Students) | 18/03/2016 (2:50 to 4:50) | Mr. Suryakant. M. Katti (Vice President Aditya Birla Group), Pune |
| 7. | Guest Lectures | 2015-16 | “Research and Innovation Opportunities and Outcomes” | B.E. (F Y Students) | 20/08/2015 | Dr. H. U. Tiwari, Dean R&D, PCCoE, Pune |
| 8. | Yes '+' Course Work shop | 2015-16 | The Youth Empowerment & Skills (YES+) workshop | F Y 570 (students) | 17/7/15-22/7/15 | Art of living Social organisation, Pune |
| 9. | Training Programme | 2014-15 | Mind mapping | F. Y. (120 students) | 28/9/14 | Sandip Gaikwad, certified trainer from MITCOM, Pune |
| 10 | Expert session | 2014-15 | self esteem | F. Y. (second shift) | 20/09/2014 | Mrs.Prajkata Sharma, Soft skill trainer |
| 11 | Yes '+' Course Work shop | 2014-15 | The Youth Empowerment & Skills (YES+) workshop | B.E. (F Y Students) | 4/8/14 - 9/8/14 | Art of living Social organisation |
| 12 | Guest Lectures | 2013-14 | Goal Setting & soft skills | F Y 218 (students) | 03/08/2013 | Mr. Suresh Patil, Retd. Colonel. Present, Justice for Jawans & Green thumb), Pune |

| | | | | | | |
|----|--------------------------|---------|---|--------------------------|--|--|
| 13 | Guest Lecture | 2013-14 | Goal Setting | F Y 233 (students) | 03/08/2013 | Major Mathew Oommen, retd Major, Indian Army, Member of scout team |
| 14 | Guest Lecture | 2013-14 | Personality Development | F Y 181 (students) | 17/02/2014 | Mrs. Fatima Tinawale |
| 15 | Guest Lecture | 2013-14 | Personality Development | F Y 173 (students) | 18/02/2014 | Mrs. Fatima Tinawale |
| 16 | Guest Lecture | 2013-14 | Time Management | F Y 190 (students) | 11/01/2014 | Mr. Makarand Talegaonkar, Mr. Harshwardhan Karanjakar |
| 17 | Guest Lecture | 2013-14 | Time Management | F Y 213 (students) | 11/01/2014 | Mr. Makarand Talegaonkar, Mr. Harshwardhan Karanjakar |
| 18 | Yes '+' Course Work shop | 2013-14 | The Youth Empowerment & Skills (YES+) workshop | B.E. (F Y Students) | First week of Commencement of F.E. (16-21/07/2013) | Art of living Social organisation |
| 19 | Guest Lecture | 2012-13 | “Life’s stress management program” | F Y Students | | Prof. Vinay Chandratre (Asst. Prof. SBIM) |
| 20 | Guest Lecture | 2012-13 | “Build your dream & Unleash your potential” | F Y Students | | Mr. Prasanna Bhardwaj |
| 21 | Yes '+' Course Work shop | 2012-13 | The Youth Empowerment & Skills (YES+) workshop | B.E. (F Y Students) | First week of Commencement of F.E. | Art of living Social organisation |
| 22 | Guest Lecture | 2011-12 | “General Engineering Mechanics of Curvilinear Motion” | F Y Students | | Prof. U. Awari (Asst. Prof AISSMS’s College, Pune) |

| | | | | | |
|----|---------------|---------|---------------------|--------------|---|
| 23 | Guest Lecture | 2010-11 | “How to Enjoy Life” | F Y Students | Mr. Vinay Chandratre, (Asst. Prof. SBIM) |
|----|---------------|---------|---------------------|--------------|---|

With Internal Experts:

- Our Philosophy is to nurture creativity and innovative thinking among students through possible exposure to the various Engineering applications. Various technical events and workshops are organized to trigger creativity, innovation and project based learning such as Robotics, PCB Designing, technical event “Spectrum” exclusively for first year, Model and Poster making, Matholic- weekly puzzle competition, Aptitude hunt, Out of the Box. In addition to this various technical clubs are formed in the department like:

- a) Techno science Club
- b) Physics Club
- c) Chemistry club

Also, Faculties are actively involved in various R & D activities which include:

- as resource persons at various workshops, seminars and conferences.
 - In training and conducting guest lecturers activities in the area of their expertise.
 - in joint collaborative research project with various reputed research organizations.
 - Four SIG groups have been formed taking into account the research interest of faculties in the department so as to initiate active deployment of research and create an atmosphere conducive for achieving set targets through team work.
- We always try to put extensive efforts for overall development of engineering aspirants. In view of this aspect First Year Engineering Department initiated various activity clubs in the department from A. Y. 2013-14.
 - a) Readers Club
 - b) Cultural Club
 - c) Photography Club
 - d) English Proficiency Test
 - e) Wall Magazine
 - Self learning centre for hands on experience and learning resources.

Teaching methods adopted to improve student learning:

Quality of the Teaching-Learning Process is the strength of PCCoE. Our Teaching Learning process is stringent and disciplined. To make it effective following methods & technologies are used by the faculty:

- Proper planning of the course content and use of various content delivery methods like using chalk & talk methodology, Group discussion, presentations etc.
- Interactive tutorial sessions for practice
- Use of Multimedia for effective course delivery
- Teaching with web linked material
- Project Based learning focusing on applications based study.
- Demonstration, Models, Group Discussion
- NPTEL and other learning materials are available to understand the core concepts
- Basic tool kits are available for hands-on of different streams
- E-journal, e-books for effective teaching
- Knowledge sharing sessions by experts
- Question Banks for each subject
- Model Question Papers for each subject
- The qualitative teaching with adequate preparation for online, unit tests and university examinations
- Effective academic monitoring of students attendance, regularity, performance and overall behaviour through proper counselling and individual attention by class teachers and parent teacher guardians.

33. Participation in Institutional Social Responsibility (ISR) and Extension activities

Social and Outreach activities: Faculties and students are involved in various social and outreach activities through the following units:

1. **NSS unit:** The institute has an approved NSS unit established under the SPPU, Pune where the students and faculty of first year engineering are encouraged to participate in social activities like blood donation camp, Cloth donation and contribution to NAAM foundation for social cost etc.
2. **YES!+ - Art of Living**
The purpose of education is to prepare a person for life. This course is organized every year in Semester I for first year engineering students in first week of commencement of classes. YES!+ is a powerful life-skills program, that challenges young people to reach their highest potential and has made a difference to thousands across the world.

The initiatives taken by the Department include:

- Inculcating creativity and innovative thinking abilities through possible exposure to the various Engineering subject applications which they study during first year.
- Project based learning is also introduced for skill development and knowledge.
- Organization of various technical events to trigger creativity, innovation and project based learning such as robotics, PCB designing, model and poster making, Matholic -

- weekly puzzle competition, mega technical event “SPECTRUM” exclusively for first year.
- Formation and conduction of various activities through readers club, cultural club, wall magazine and science club.
 - To nurture personality traits through systematic planning and execution of YES! + (Youth Empowerment and Skills) program for all first year students. Organization of guest lectures, workshops such as mind mapping, time management, stress management etc.
 - Effective interaction with parents and guardians on continual basis.
 - Arranging Educational trips & Visits.

34. SWOC analysis of the department and Future plans

Strengths:

- Experienced, qualified & dedicated faculty.
- Systematic planning and proper execution.
- The qualitative teaching with adequate preparation for online, unit tests and university examinations.
- Improved quantitative and qualitative results.
- Parent-Teacher-Guardian scheme.
- Good infrastructural facilities. All laboratories are equipped with latest and sophisticated instruments and experimental setups.
- Wide collection of books in library.

Weaknesses:

- Research publications need to be increased in reputed journals.
- More faculties need to be encouraged to involve in research work.
- Revenue generation/ Funded projects etc.

Opportunities:

- To develop interdisciplinary projects
- To prepare strong foundation through project based learning and skill development required to become competent engineer.

Challenges:

- Making a first year engineering student aware and prepare mentally and academically for the global problems in all the aspects like environmental, social, pollution etc.
- Making them aware about the necessary personality traits, attitude, behavioral attributes and skill sets to become responsible citizens and overall good human being.
- Understanding of the students in emerging trends in technologies and to work on modern techniques.

Evaluative Report of MBA Department

- 1 **Name of the department** : Master of Business Administration (MBA)
- 2 **Year of Establishment** : 2008
- 3 **Names of Programmes / Courses offered** : Master of Business Administration (MBA)
- 4 **Names of Interdisciplinary courses and the departments / units involved**
NA.
- 5 **Annual/ semester/choice based credit system (programme wise):**
Credit System is practiced from AY 2013-2014 by SPPU, Pune.

6. Participation of the department in the courses offered by other departments

| Sr. No. | Department Name | Subject Offered |
|---------|--------------------------------|-------------------------|
| 1 | Electronic & Telecommunication | Industrial Management |
| 2 | Mechanical Engineering | Industrial Management |
| 3 | MCA | Optimization Technique |
| 4 | MCA | Accounting |
| 5 | MCA | Organizational Behavior |

7. **Courses in collaboration with other universities, industries, foreign institutions, etc.**
NIL.
8. **Details of courses/programmes discontinued (if any) with reasons**
NIL.

9. Number of Teaching posts

| Title | Sanctioned | Filled |
|---------------------|------------|--------|
| Professor | 01 | 00 |
| Associate Professor | 02 | 00 |
| Assistant Professor | 05 | 07 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

| Sr. No. | Faculty Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---------|--------------|---------------|-------------|----------------|----------------------------|---|
| | | | | | | |

| | | | | | | |
|---|----------------------|----------|-----------------|-----------|------|---|
| 1 | Dr. Anuja Johri | PhD, MBM | Asst. Professor | HR | 10 | - |
| 2 | Prof. Chetan Patil | MBA | Asst. Professor | Finance | 13 | - |
| 3 | Dr. Santosh Shinde | MBA | Asst. Professor | Marketing | 12.6 | - |
| 4 | Prof. Shilpa Kundle | MBA | Asst. Professor | HR | 8.5 | - |
| 5 | Prof. Sanjay Gaikwad | MBA | Asst. Professor | Finance | 10.5 | - |
| 6 | Prof. Ritesh Phalke | MBA | Asst. Professor | Finance | 8 | - |
| 7 | Prof. Sushil Shende | MBA | Asst. Professor | Marketing | 5.5 | - |

11. List of senior visiting faculty

| Sr. No. | Academician / Industry Person | Designation | Industry/ Institute |
|---------|-------------------------------|---------------------------------|---|
| 1. | Mr. Shantilal Hajeri | Trainer | Freelance Trainer |
| 2. | Mr. S. T. Gijare | Trainer | Consultant (Retd. From Bank of Maharashtra) |
| 3. | Mr. Prakash Soni | Trainer | Consultant |
| 4. | Mrs. Vishakha Vidhwans | Asst. Professor | Indira School of Business |
| 5. | Ms. Mallika | Trainer | Consultant |
| 6. | Mr. Ravi Soni | Asst. Professor | S. B. Patil Institute of Management |
| 7. | Ms. Bhakti Ratnaprakhi | Asst. Professor | Pimpri Chinchwad College of Engineering |
| 8. | Mrs. Radhi Nair | Trainer | Freelance Trainer |
| 9. | Mr. Chitnis | Trainer | Consultant |
| 10. | Mr. Eknath Charde | Manager | Transparent Value |
| 11. | Mr. Sanjay Landge | MD | San Corporation |
| 12. | Mr. Ramkrishna Vadali | Asst. Professor (Syst. And IT) | Pimpri Chinchwad College of Engineering |
| 13. | Dr. K. Rajeshwari | HOD Computer Engg., Professor | Pimpri Chinchwad College of Engineering |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

Nil (No temporary faculty is recruited in the department).

13. Student -Teacher Ratio (programme wise)

| Program | Student Ration |
|---------------|----------------|
| Post Graduate | 15:1 |

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

| Title | Sanctioned | Filled |
|-----------------------|------------|--------|
| Laboratory Assistants | 1 | 1 |
| Peon | 1 | 1 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| Qualification | Number of Teaching Faculty |
|---------------|----------------------------|
| PhD | 2 |
| PG | 5 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

- a) National : NIL
b) International funding : NIL

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

NIL.

18. Research Centre /facility recognized by the University

NIL.

19. Publications:

- a) Total Publications : 14
b) Publication per faculty

| Sr. No. | Name of the Faculty | No. of Papers published |
|---------|---------------------|-------------------------|
| 1 | Dr. Anuja Johri | 2 |
| 2 | Mr. Chetan Patil | 3 |
| 3 | Mr. Santosh Shinde | 3 |
| 4 | Mrs. Shilpa Kundle | 2 |
| 5 | Mr. Sushil Shende | 1 |
| 6 | Mr. Ritesh Phalke | 2 |

| Sr. No. | Name of the Student | No. of Papers published |
|---------|---------------------|-------------------------|
| 1 | Abhishek Raja | 1 |

20. Areas of consultancy and income generated

NIL.

21. Faculty as members in

- a. National committees : NIL
- b. International Committees : NIL
- c. Editorial Boards : NIL

22. Student projects

- a) Percentage of students who have done in-house projects including inter departmental / programme

NIL.

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies

| Sr. No. | Acad Year | Outside Institute Projects (%) | | |
|---------|------------|--------------------------------|---------------------|--------|
| | | Industry | Research Laboratory | Others |
| 1 | 2011-2012 | 100 | 00 | 00 |
| 2 | 2012-2013 | 100 | 00 | 00 |
| 3 | 2013-2014 | 100 | 00 | 00 |
| 4 | 2014-2015 | 100 | 00 | 00 |
| 5 | 2015- 2016 | 100 | 00 | 00 |

23. Awards / Recognitions received by faculty and students

| CAY 2016-17 | | | | |
|-----------------|------------------------------|---|-------------|-----------------------------------|
| Sr. No. | Name of the Faculty/Students | Organization | Date / Year | Awards / Recognition |
| 1 | Prof. S.M. Shinde | Ph.D. Awarded by SPPU | 2016 | SPPU, Pune |
| 2 | Prof. Chetan Patil | 1 st Prize at International Conference | 2014 | Symbiosis Institute of Management |
| Students | | | | |
| 1 | Mr. Manish Nair | 1 st prize in All India Level Kavita Rachana | 2016 | Pune |
| 2 | Ms. Priyanka Nair | 1 st prize in Brain Waves Event | 2016 | MCA Department , PCCoE, Pune. |
| 3 | Mr. Lalit Barhate | Runner up in Kabbadi | 2016 | PCCOE |
| 4 | Mr. Lalit Barhate | Water Polo & | 2016 | Nasik |

| | | | | |
|---|---|---|------|----------------------------------|
| | | Swimming Competition | | |
| 5 | Ms. Deepali Sarmalkar | Out Standing Performer for SIP | 2016 | SS Eduks Management Consultants. |
| 6 | Ms. Sapana Motwani | 1 st prize Quiz Competition | 2015 | MCA Department , PCCoE, Pune. |
| 7 | Ms. Sonali Pednekar & Mr. Prasoon Kumar | 2 nd Runner up trophy Case study competition | 2013 | MIT School of Management, |
| 8 | Mr. Jiju Rasaalayan, Ms. Nikita Varghese, Mr. Mohan Wadile, Mr. Ravindra Ganesh | 2nd Prize in Jugad | 2012 | DIMR |

24. List of eminent academicians and scientists / visitors to the department

| Sr. No. | Name of Visitor | Institute / Organization | Activity/ Program |
|---------|--------------------------|----------------------------------|-----------------------|
| 1 | Mr. Parag Shimpi | Mahindra & Mahindra | Guest Lecture |
| 2 | Mr. Hemant Thakar | Education belt | Guest Lecture |
| 3 | Mr. Sanjay Deshpande | Sanjeevani Developers | Induction |
| 4 | Dr. Ashutosh Gadekar | Singhad Institute of Management | Projection |
| 5 | Dr. Neha Sharma | MITCON | ZEST |
| 6 | Dr. Seema Singh Zokarkar | Balaji Institute of Management | Induction |
| 7 | Dr. Sayali Gankar | MIT School of Management | Induction |
| 8 | Mr. Mehul Punjawani | Wipro Technologies | Induction |
| 9 | Dr. P.C. Jain | Consultant | Guest Lecture |
| 10 | Ms. Sonal Seth | Trainer | Guest Lecture |
| 11 | Ms. Pooja Kapure | CCA | Guest Lecture |
| 12 | Col. Niteen Rumale | Defence | Career Guidance |
| 13 | Mr. Samrat Jadhav | Motilal Oswal Securities Limited | Union Budget Analysis |
| 14 | Mr. Vijay Tarak | Nihva Technology | Induction Chief Guest |
| 15 | Mr. S. D. Pradhan | Tata Technologies | Induction |
| 16 | Mr. Rahul Bagale | Lear Corporation | Guest Lecture |
| 17 | Dr. Ashutosh Misal | Novel Institute of Management | Guest Lecture |
| 18 | Mrs. Jayaprabha | Helen – O – Grandy | Induction |
| 19 | Mr. Mahesh Kulkarni | American Express | Guest Lecture |
| 20 | Mrs. Shilpa Dhavale | KPIT | Guest Lecture |

| | | | |
|----|----------------------|--|--------------------------------|
| 21 | Dr. Amod Markale | Zeal Institute | SPSSWorkshop |
| 22 | Dr. Shailesh Kasande | VIM | Expert Lecture on Dissertation |
| 23 | Dr. Rajeev Nagarkar | NLP Trainer | Counseling |
| 24 | Mr. Prashant Puppal | Enviro-Bulk Handling Systems PVT. Ltd. | Induction Guest Lecture |
| 25 | Mrs. Renuka Biswas | Leader Bridge | Guest Lecture |
| 26 | Mrs. Madhavi Damle | Indira Institute of Management | Workshop on Excel |
| 27 | Adv. Ganesh Gupta | Balaji Institute of Law | Expert Lecture on HRE |

25. Seminars/ Conferences/Workshops organized & the source of funding

a) **National:** NIL.

b) **International:** NIL.

26. Student profile programme /course wise:

| Name of the Course/Programme | Academic Year | Applications received | Selected | Enrolled | | Pass percentage |
|-----------------------------------|---------------|-------------------------------|----------|----------|----|-----------------|
| | | | | *M | *F | |
| Master of Business Administration | 2011-2012 | Centralized Admission Process | 59 | 39 | 20 | 73.33 |
| | 2012-2013 | | 50 | 35 | 15 | 86.44 |
| | 2013-2014 | | 37 | 25 | 12 | 76 |
| | 2014-2015 | | 43 | 29 | 14 | 70.27 |
| | 2015-2016 | | 60 | 32 | 28 | 87 |
| | 2016-17 | | 56 | 30 | 26 | |

*M = Male *F = Female

27. Diversity of Students

| Name of the Course | % of students from the same state | % of students from other States | % of students From abroad |
|--------------------|-----------------------------------|---------------------------------|---------------------------|
| 2011-2012 | 53 | 6 | - |
| 2012-2013 | 47 | 3 | - |
| 2013-2014 | 34 | 3 | - |
| 2014-2015 | 42 | 1 | - |
| 2015-2016 | 58 | 2 | - |
| 2016-2017 | | | - |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

| PhD. Exam | MPSC Exam | IDBI | SBI | Agriculture officer | NET |
|-----------|-----------|------|-----|---------------------|-----|
| 1 | 1 | 1 | 1 | 1 | 2 |

29. Student progression

| Student progression | Against % enrolled |
|------------------------------------|---|
| UG to PG | NA |
| PG to M.Phil. | NA |
| PG to Ph.D. | 2 |
| Ph.D. to Post-Doctoral | NIL |
| Employed through | |
| a) Campus selection | 2015-16 : 21 2014-15 : 17 2013-14 : 22 2012-13: 10 |
| b) Other than campus recruitment | 2015-16 : 33 2014-15 : 49 2013-14 : 20 2012-13: 22 |
| Entrepreneurship / Self-employment | 2015-16 : Nil 2014-15 : 06 2013-14 : 02 2012-13: Nil |

30. Details of Infrastructural facilities

| Sr. No. | Infrastructural Facility | Details of Items | Numbers |
|---------|--|----------------------------------|---------|
| 1 | Library | Books | 830 |
| | | Volumes | 3445 |
| | | Journals | 17 |
| | | Magazines | 5 |
| | | E-Journals | 1 |
| | | CD's | 180 |
| 2 | Internet Facility for staff and Students | Computers with Internet Facility | 30 |
| | | College Internet Bandwidth | 79 mbps |
| | | Department Internet Bandwidth | 4 mbps |
| 3 | Classrooms with ICT facility | | 02 |
| 4 | Computer laboratories (102) | | 01 |
| 5 | Tutorial Room | | 03 |

Description of Class Rooms, Faculty Rooms, Seminar Hall etc.

| Room Description | Usage | Shared / Exclusive | Space / Capacity | Details |
|----------------------|---------------------------|--------------------|-----------------------|--|
| Classrooms (201,202) | To conduct theory classes | Exclusive | 60 students per class | White board, Multimedia projector with screen, |

| | | | | |
|-----------------------------------|---|-----------|----------------------|--|
| | of MBA-I & MBA-II year | | room | computer, Benches, CCTV camera, podium, Window curtains |
| Tutorial Rooms (103,104,105) | To conduct theory classes of MBA-II (HR & Marketing specialisation) | Exclusive | 20 students per room | White board, computer, Benches, CCTV Camera, Window curtains |
| Faculty Room (101) | HOD Office | Exclusive | 01 | Computer with internet connectivity, exclusive cabin with attached W/C and executive office facilities |
| Faculty Room (106) | Faculty cabin | Exclusive | 02 | Computers with internet connectivity, Tables, Chairs, Cupboard. White board, Window curtains |
| Faculty Room (MBA Staff room 106) | Faculty cubicals | Shared | 03 | Computers with internet connectivity, Tables, Chairs, notice board |

31. Number of students receiving financial assistance from college, university, government or other agencies

| Castewise Year wise students list. | | | | | | | |
|------------------------------------|----------------|---------|---------|---------|---------|---------|---------|
| | | 2011-12 | 2012-13 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| 1 | SC Freeship | 10 | 11 | 7 | 4 | 10 | 7 |
| 2 | ST Freeship | 0 | 1 | 1 | 0 | 0 | 0 |
| 3 | OBC Freeship | 16 | 20 | 7 | 8 | 16 | 12 |
| 4 | SBC Freeship | 2 | 1 | 0 | 0 | 0 | 0 |
| 5 | VJ/NT Freeship | 6 | 5 | 7 | 10 | 9 | 1 |

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Enrichment programs conducted in MBA department by External Experts

| Sr. No. | Type of Enrichment programme | Topic | Target audience | Date | Details of No of Expert Partici(Name, designation, organization) |
|---------|------------------------------|-------|-----------------|------|--|
| | | | | | |

| | | | | | |
|----|-------------------------|--|------------------|----------------------|---|
| 1 | Guest Lecture | Treasury Operations of Bank & Credit Appraisal of Corporate Credit including Stressed Assets | MBA-I & MBA -Fin | 01st October 2016 | Mr.V.G.Kannan- Retired MD of State Bank Of India,Mumbai |
| 2 | Guest Lecture | German Language-Awareness & Opportunities | MBA-I | 28th Sept 2016 | Ms Kashmira Bafna - Counselor-Goethe-Institute Max Mueller Bhavan |
| 3 | Induction Guest Lecture | Life Lessons | Students | 24th Sept 2016 | Mr. Prashant Puppal, MD Enviro-Bulk Handling Systems PVT. Ltd. |
| 4 | Guest lectures | Campus to Corporate | Students | 26th Sept 2016 | Mrs. Shilpa Dhavale, Associate Vice president, KPIT |
| 5 | Guest Lecture | Career & Rewards in Sales Profession | Students | 24th Sept 2016 | Mr. Mahesh Kulkarni, Sr. Manager Sales, American Express |
| 6 | Induction Chief Guest | Personality Development through Mime Methodology | Students | 24th Sept 2016 | Mrs. Jayaprabha, Proprietor, Helen-O-Grandy |
| 7 | Induction Chief Guest | Entrepreneurship – an option | Students | 23rd Sept 2016 | Mr. Vijay Tarak, MD Nihva Technology |
| 8 | Guest Lecture | Performance Management in the Organization | MBA-II & MBA-I | 10 th September 2016 | Mr. Rahul Bagale- Sr.Manager-HR-Lear Automotive India Pvt. Ltd. |
| 9 | Guest Lecture | Performance Management | Students | 10th September 2016 | Mr. Rahul Bagale- Sr. HR Manager, Lear Corporation |
| 10 | Counseling | Counseling and Concentration | Students | 31st August 2016 | Dr. Rajeev Nagarkar, Expert Counselor and NLP Trainer |

| | | | | | |
|----|--------------------------|--|----------|-------------------------|---|
| 11 | Induction Chief Guest | Bridging the Gap between industry and Institute | Students | 8th August 2016 | Mr. S. D. Pradhan, Founder, Ex. CEO, Tata Technologies |
| 12 | Guest Lecture | ‘Amazon Trained Ecommerce Specialist Program’ | Students | 15th Mar 2016 | Mr. Yuvraj Saswade (Senior Business Consultant, Corporate Training, Viztar International Pvt. Ltd) |
| 13 | Guest Lecture | Time Management | Students | 16th Feb 2016 | Founder, Leader Bridge. |
| 14 | Guest Lecture | Career in Investment Banking | Students | 3 rd Feb 2016 | Sandeep Jadhav , Team Lead-Syntel Ltd |
| 15 | Guest Lecture | Cyber Security | Students | 14th Oct. 2015. | Mr . Mallikarjun Malle , Information Security & Cyber Crime Expert |
| 16 | Workshop | Skill Development for Employability on Application, Resume, Email writing, role play on interview | Students | 3,4,5 Sept. 2015 | Mrs. Radhi Nair, Freelance Trainer |
| 17 | Training program | Soft Skill training | Students | 19-28 August 2015 | Mrs. Radhi Nair, Freelance Trainer |
| 18 | Guest Lecture | Interface with Corporate world | Students | 7Th Aug 2015 | Mr. S. D. Pradhan, Ex Founder and chairman TATA Technologies |
| 19 | Guest Lecture | Life Excellence Programme | Students | 7th Aug 2015 | Prof. Ajay Varade, Indira Institute of Management |
| 20 | Workshop | Fixed Income Securities | Students | 1st Aug 2015 | Mr. Sanjay Pawar, Religare Securities |
| 21 | Workshop | Goal Setting | Students | 1st Aug 2015 | Mr. Rajesh Shirodkar, Member QCFI |
| 22 | Guest Lecture | Selection of right specialization with the help of | Students | 18th March 2015 | Dr. Ashutosh Misal, Director Novel Institute of |

| | | | | | |
|----|---------------|---|-----------|-----------------------------|--|
| | | psychometric test | | | Management |
| 23 | Guest Lecture | Selecting Right Specialization through Psychometric Test | Students | 18th Mar 2015 | Dr. Ashutosh Misal, Director Novel Institute of Management |
| 24 | Workshop | Skill Development for Employability on Biz Communication, Interview Techniques, writing letters, Emails | Students | 09th March, 2015 | Mrs. Radhi Nair, Freelance Trainer |
| 25 | Workshop | Time management | Students | 16th Feb. 2015 | Ms. Renuka Biswas, Leader Bridge |
| 26 | Guest Lecture | Campus to Corporate | Students | 10th Feb 2015 | Mr.N.J.Joglekar, Freelance Trainer |
| 27 | Guest Lecture | Excel Modeling for finance and non finance | Students | 17th to 20th September 2014 | Mr. Hemant Thakar, MD, Education belt |
| 28 | Guest Lecture | Relevance of Communication in Today's world | Students | 8th Aug 2014 | Mrs. Radhi Nair, Freelance Corporate Trainer |
| 29 | Workshop | Team Building | Students | 8th Aug 2014 | Mr. Hemant Thakkar, MD Education Belt |
| 30 | Workshop | Life Skills development Program | Students | 2nd-10th Aug 2014 | Mrs. Radhi Nair, Freelance Trainer |
| 31 | Guest Lecture | Career Guidance and Planning | Students | 25th Mar 2014 | AIMA , Mr. Pradeep Tupe & Mr. Ketan Gandhi |
| 32 | Workshop | STATEX- Training programme on SPSS and Excel for research | Faculties | 26th October 2013 | Dr. Amod Markale, Director, Zeal Education Institute. |
| 33 | Workshop | STATEX- Training programme on SPSS and Excel for research | Faculties | 25th October, 2013 | Prof. Madhavi Damle, Indira Institute of Management |

| | | | | | |
|----|---------------|---|-----------|---------------------|---|
| 34 | Guest Lecture | CII – Yi Orientation Program | Students | 28th August 2013 | Mrs. Neha Agarwal |
| 35 | Workshop | English Communication | Students | 8th August. 2013 | Mrs. Sonal Seth and Mr. Sunil Kumar |
| 36 | Workshop | Understanding and Implementing Revised MBA Curriculum | Faculties | 03rd July, 2013 | Dr. Shalesh Kasande, Director, Vishwakarma Institute of Management, Kondhwa |
| 37 | Workshop | Corporate Selection Process | Students | 21st January 2012 | Ms. Neelam Bachal, Freelance Trainer |
| 38 | Guest Lecture | Market Research and New trends in Market Research | Students | 17th September 2011 | Mr. Prem Abraham, Director, DIGIT 5 Private Limited, Pune |

33. Teaching methods adopted to improve student learning

- Case study
- Class test
- Open book test
- Small group project & Internal Viva
- Group Discussion
- Role play
- Written home assignment
- Literature review
- In-depth Viva
- Quiz

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

ISR and Extension activities are organized under the aegis of various clubs like NSS, Rotary Club, Shrushti club, Druva Club at the Institute.

| Sr.No. | Type of activity | Details of Activity | No of Participants (Faculty & Students) |
|--------|------------------|--|---|
| 1 | Social Awareness | Awareness among the society on save Petrol/save water/Save electricity | 40 |
| | | Visit to Orphanages (Nachiket Balgram) | 15 |

| | | | |
|--|--|--|----|
| | | Awareness among the society helmet awareness rally | 60 |
|--|--|--|----|

35. SWOC analysis of the department and Future plans

Strengths:

- Qualitative and Quantitative Academic results.
- Highly qualified, experienced and dedicated faculty members.
- Personal Attention and Counseling for Students.
- Skill enhancement and enrichment activities for students

Weaknesses:

- Lack of Research and Publication in International and peer reviewed journal.
- Lack of consultancy in industry.

Opportunities:

- To explore interdisciplinary research avenue.
- Training and Consultancy in MSME and other Industry.
- Faculty and Student exchange program with premier institute at national and international level.

Challenges:

- To bridge the gap between the Industry and academics.
- Enhancement in qualitative and quantitative placements.

Future Plans:

- To develop training and consultancy center.
- To strengthen Industry Institute Interaction.
- To develop in house management research center.
- To have university rank holders.

Evaluative Report of Master of Computer Application Department

1. **Name of the department** : Master of Computer Application (MCA)
2. **Year of Establishment** : 2007
3. **Names of Programmes / Courses offered** : Master of Computer Application
4. **Names of Interdisciplinary courses and the departments / units involved**
NIL.
5. **Annual/ semester/choice based credit system (programme wise):**
Semester based Credit System.
6. **Participation of the department in the courses offered by other departments**
NIL.
7. **Courses in collaboration with other universities, industries, foreign institutions, etc.**

| Sr. No. | Name of University / Industry/ Institute | Courses / Programs Offered |
|---------|--|--------------------------------|
| 1 | IBM | Advanced Java |
| 2 | MS IT | Dot Net |
| 3 | Infosys | Infosys Campus Connect |
| 4 | Scout Technologies | Campus Recruitment Training. |
| 5 | MITu skillologies, Nishik | Linux Training |
| 6 | The Potters Earth | Career Readiness for Graduates |

8. **Details of courses/programmes discontinued (if any) with reasons**
NIL.

9. Number of Teaching posts

| Title | Sanctioned | Filled |
|---------------------|------------|--------|
| Professor | 1 | 0 |
| Associate Professor | 2 | 1 |
| Assistant Professor | 9 | 9 |
| Adjunct Professor | - | 1 |
| Visiting Faculty | - | 1 |

10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.,)

| Sr. No. | Faculty Name | Qualification | Designation | Specialization | No. of Years of Experience | No. of PhD students guided for the last 4 years |
|---------|-------------------|---------------|---------------------|----------------------|----------------------------|---|
| 1 | Shilpa Dhavale | MCM | Adjunct Professor | Computer Management | 20 (Industrial) | - |
| 2 | Anjana R.A. | MCA | Associate Professor | Computer Application | 14.6 | - |
| 3 | Prashant Kulkarni | MCA | Assistant Professor | | 10.8 | - |
| 4 | Bali S. Khurana | MCA | Assistant | | 10 | - |
| 5 | Anand Jain | MCA | Assistant Professor | | 8.4 | - |
| 6 | Dipali Railkar | MCA | Assistant Professor | | 8.4 | - |
| 7 | Sopan Aghav | MCA, MBA | Assistant Professor | | 8.7 | - |
| 8 | Rajkamal Sangole | MCA | Assistant Professor | | 5.5 | - |
| 9 | Poonam Katyare | MCA | Assistant Professor | | 9 | - |
| 10 | Suchita Borkar | MCA | Assistant Professor | | 7 | - |
| 11 | Prakash Ukhalkar | MCA | Assistant Professor | | 7.5 | - |

11. List of senior visiting faculty

| Sr. No. | Academician / Industry Person | Designation | Industry/ Institute |
|---------|-------------------------------|------------------|---------------------|
| 1. | Prof. Pranoti Jadhao | Visiting Faculty | |

12. Percentage of lectures delivered and practical classes handled (programme wise) by temporary faculty

6.31 % (A.Y. 2015-16)

13. Student -Teacher Ratio (programme wise)

Academic Year: 2016-17

| Program | Student Ration |
|---------|----------------|
| | |

| | |
|---------------|------|
| Post Graduate | 18:1 |
|---------------|------|

14. Number of academic support staff (technical) and administrative staff; sanctioned and filled

| Title | Sanctioned | Filled |
|-----------------------|------------|--------|
| Laboratory Assistants | 3 | 3 |
| Peon | 1 | 1 |

15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.

| Qualification | Number of Teaching Faculty |
|---------------|----------------------------|
| PhD | 0 |
| PG | 12 |

16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received

- a) National : Nil
b) International : Nil

17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received

| Sr. No. | Academic Year | Faculty Name | Title of the Project | Funding Agency | Grants Received |
|---------|---------------|--|---|----------------|-----------------|
| 1 | 2013-15 | Prof. Dipali Railkar Prof. Poonam Katyare | An Assessment and Comparative Analysis of computer literacy in rural and urban school | BCUD, SPPU | Rs. 80000/- |

18. Research Centre /facility recognized by the University

Nil.

19. Publications:

Our faculty has published research papers in reputed national and international journals.

a) Publication Total:

| Sr. No. | Name of Faculty | No of Publication in last 4 years |
|---------|-----------------|-----------------------------------|
|---------|-----------------|-----------------------------------|

| | | |
|-------------------------------------|----------------------------|-----------|
| 1 | Prof.Anjana Arakerimath | 3 |
| 2. | Prof.Dipali Railkar | 2 |
| 3. | Prof.Poonam Katyare | 4 |
| 4. | Prof.Suchita Borkar | 2 |
| 5. | Prof. Bali Shanker Khurana | 1 |
| Total Number of Publications | | 12 |

b) Number of papers published in peer reviewed journals (national / international) by faculty: **(In Last 3 years)**

| Sr. No. | Name of Faculty | National Journals / conferences | | | International Journals / Conferences | | | |
|------------------------------|-------------------------|---------------------------------|---------|---------|--------------------------------------|---------|---------|---------|
| | | 2013-14 | 2014-15 | 2015-16 | 2013-14 | 2014-15 | 2015-16 | 2016-17 |
| 1 | Prof.Anjana Arakerimath | | 1 | | 1 | | 1 | |
| 2 | Prof.Dipali Railkar | | | | | 1 | 1 | |
| 3 | Prof.Poonam Katyare | | | | 1 | 1 | 2 | |
| 4 | Prof.Suchita Borkar | | | | 2 | | | |
| 5 | Prof. Bali S. Khurana | | | | | | | 1 |
| Total Number of Publications | | | 1 | | 4 | 2 | 4 | 1 |

Number of papers published in peer reviewed journals (national / international) by students: **(In Last 3 years)**

| Sr. No. | Name of Student | National Journals / conferences | | | International Journals / Conferences | | |
|------------------------------|-------------------|---------------------------------|---------|---------|--------------------------------------|---------|---------|
| | | 2013-14 | 2014-15 | 2015-16 | 2013-14 | 2014-15 | 2015-16 |
| 1 | Mr. Pankaj Kesari | | 1 | | | | |
| 2 | Mr. Pramod Gupta | | | | | | 1 |
| 3 | Ms. Nikita Awati | | | | | | 1 |
| 4 | Mr. Premal Nirmal | | | | | | 2 |
| Total Number of Publications | | | 1 | | | | 4 |

c) Number of publications listed in International Database (For Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : NIL

List of Journals:

| Sr. No. | International Journals/Conference | Impact factor | Citation | Name of Faculty |
|---------|---|---------------|----------|----------------------------|
| 1 | International Journal of Engineering Research and Development | 1.131 | | Prof.Anjana Arakerimath |
| 2 | National Conference at New Art, Commerce and Science College, Parner, Ahmednagar. | | | Prof.Anjana Arakerimath |
| 3 | International Journal of Latest Technology in Engineering, Management & Applied Science | 3.475 | | Prof.Anjana Arakerimath |
| 4 | International Journal of computer application | 0.752 | 8 | Prof.Suchita Borkar |
| 5 | International Journal of Computer Science and Mobile Computing (IJCSMC) | 6.02 | 29 | Prof.Suchita Borkar |
| 6 | International Journal of Innovative Research in Computer Science & Technology (IJRCST) | 2.172 | | Prof.Dipali Railkar |
| 7 | International Journal of computer application | 0.752 | | Prof.Dipali Railkar |
| 8 | International Conference on IRCCETS | | | Prof.Poonam Katyare |
| 9 | International Journal of Innovative Research in Computer Science & Technology (IJRCST) | 2.081 | | Prof.Poonam Katyare |
| 10 | International Journal of Computer Applications(IJCA) | 0.752 | | Prof.Poonam Katyare |
| 11 | International Journal of Exploring emerging Trends in Engineering (IJEETE) | 2.995 | | Prof.Poonam Katyare |
| 12 | Research on Detecting Fault Based on Internet Control Message Protocol (IJST) | 1.002 | | Prof. Bali Shanker Khurana |

- *Citation Index :37*
- *h-index:2*

20. Areas of consultancy and income generated

NIL.

21. Faculty as members in

- National committees : NIL
- International Committees : NIL
- Editorial Boards : NIL

22. Student projects

a) Percentage of students who have done in-house projects including inter departmental / programme

As per course curriculum of MCA, Mini projects are developed by all students under guidance of faculty members in MCA in each semester. Projects are developed on the basis of software development life cycle. After completion of software project, it is evaluated by project Guide. In this way, “project based learning” is incorporated in the system.

In MCA VI Semester, students develop the industrial software project in different organizations under guidance of internal faculty members. Finally, it is evaluated by external examiner assigned by university.

| Sr. No. | Academic Year | In house projects (%) |
|---------|---------------|-----------------------|
| 1 | 2016-17 | 0 |
| 2 | 2015-16 | 0 |
| 3 | 2014-15 | 1.4 |
| 4 | 2013-14 | 0 |

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories / Industry / other agencies

| Sr. No | Academic Year | % of students placed in outside organization |
|--------|---------------|--|
| 1 | 2016-17 | 100 |
| 2 | 2015-16 | 100 |
| 3 | 2014-15 | 98.6 |
| 4 | 2013-14 | 100 |

23. Awards / Recognitions received by faculty and students

Awards / Recognitions received by Students: AY: 2016-17

| Sr. No. | Name of Student | Awards / Recognition | Academic Year | Institute / Organization |
|---------|--------------------|--|---------------|--------------------------|
| 1 | Ms. Pramila Lakade | Participated in “PURUSHOTTAM Karandak- 2016” | 2016-17 | PCCOE |
| 2 | Sumit Karpe | Winner of Zonal Round Avishkar Project Competition 2016 Project Title Digipanchayat | 2016-17 | SPPU |

| | | | | |
|---|--------------------------|--|---------|--------------------------|
| 3 | Mr. Rahul Pardeshi | Participated in University level Volleyball competition | 2016-17 | SPPU |
| 4 | Ms. Bhagyashree Gayakwad | Participated in University level football competition | 2016-17 | SPPU |
| 5 | Anuradha Bhosale | Participated And Winners Of Technocase-2016 State Level Competition(Trophy And Certificate | 2016-17 | IICMR |
| 6 | Shubham Bhate | Participated And Winners Of Technocase-2016 State Level Competition(Trophy And Certificate | 2016-17 | IICMR |
| 7 | Bhagyashri Dharmadikari | “Madhugandharva” Singing Competition | 2016-17 | MADHUGAND HARVA |
| 8 | Shubham Bhate | Techtonic -2017 Java Competition, Participated And Runner up (Certificate) University Level | 2016-17 | SINHGAD COLLEGE, VADGAON |
| 9 | Shubham Bhate | Jygyasa-2017 Participated And Runner up (Certificate) University Level | 2016-17 | IMCC, KOTHRUD |

Awards / Recognitions received by Students: AY: 2015-16

| Sr. No. | Name of Student | Awards / Recognition | Academic Year | Institute / Organization |
|---------|---|--|---------------|--------------------------|
| 1 | Mr. Shailesh Sawant Ms. Sayali Medankeri | 1 st Prize in State Level Case Study Competition | 2015-16 | IICMR, 12/09/2015 |
| 2 | Mr. Sunil More | 1 st prize in quiz of “ Shri Shivaji Maharaj The Management Guru” | 2015-16 | PCCOE MBA Dept |
| 3 | Ms. Amruta Gaikwad | 2 nd prize in quiz of “ Shri Shivaji Maharaj The Management Guru” | 2015-16 | PCCOE MBA Dept |
| 4 | Mr. Girish Kulkarni | 2 nd prize in elocution competition of “ Shri Shivaji Maharaj The Management Guru” | 2015-16 | PCCOE MBA Dept |
| 5 | Ms. Pramila Lakade | 1 st prize in inter department cricket match conducted on 7 th Jan 2016. | 2015-16 | PCCOE |

| | | | | |
|----|---|--|---------|----------------|
| 6 | Ms. Snheha Mahamuni Mr. Shailesh Sawant Ms. Ashwini Nambyar Ms. Syali Medankeri Ms. Kavita Sandbhor Mr. Yogesh Wagha Ms. Anuja Inamdar Ms. Amruta Gaikwad | 2 nd prize in the National level skit competition | 2015-16 | ATSS college |
| 7 | 1. Sunil More 2. Girish Gunderao Kulkarni 3. Pramila Lakade 4. Ravina Ashok Deogadkar 5. Pooja Namdev Chougule 6. Aarti Tukaram Jadhav 7. Saif Javed Khan 8. Pramoja Shahaji Kokate 9. Sarika Nagesh Pawar 10. Nishigandha Rajendra Shinde | National level program "Manthan" students performed "Save Water" Skit. (Nominated for Greenish book) | 2015-16 | At Nigdi Chowk |
| 8 | Ms. Anita Bedkute Ms. Amruta | 2 nd prize in Rangoli National level competition | 2015-16 | ATSS college |
| 9 | Mr. Ganesh Chikhalikar Ms. Ashwini Nambiyar Ms. Dipali Kelkar | <u>Entrepreneurship 1st In Business Competition.</u> | 2015-16 | PCCOE |
| 10 | Ms. Kartika Cholayil | 2 nd prize in the National level "Its Me" competition | 2015-16 | ATSS college |

Awards / Recognitions received by Faculty: AY: 2016-17

| Sr. No. | Name of Faculty | Awards / Recognition | Academic Year | Institute / Organization |
|---------|----------------------|---|---------------|-----------------------------------|
| 1 | Prof. Anjana R.A. | Session Chair in ICCCUBEA-16 | 2016-17 | PCCOE, Nigdi |
| 2 | Prof. Suchita Borkar | Invited as a Guest Speaker for “Personality Development and Attitude Building”. | 2016-17 | SNBP College, Pune |
| 3 | Prof. Sopan Aghav | Invited as Guest Speaker for “Online Marketing, Web based Advertising” | 2016-17 | Department of Commerce SPPU Pune. |

Awards / Recognitions received by Faculty: AY: 2015-16

| Sr. No. | Name of Faculty | Awards / Recognition | Academic Year | Institute / Organization |
|---------|---|---|---------------|--|
| 1 | Prof. Anjana R.A. Prof. Poonam Katyare Prof. Dipali Railkar | Three days “COMPUTER FUNDAMENTALS” Training program for rural school teachers (Appriciation letter received by School) | 2015-16 | “Pawana School” yeleshe from 28 th Dec 2015 to 30 th Dec 2015. |
| 2 | Prof. Anjana R.A. | Mock Project Viva | 2015-16 | SIOM, Pune |
| 3 | Bali S. Khurana Prashant Kulkarni Anand Jain Dipali Railkar Sopan Aghav Rajkamal Sangole Poonam Katyare Suchita Borkar Prakash Ukhalkar | Session Chair in C-PGCON | 2015-16 | PCCOE |

24. List of eminent academicians and scientists / visitors to the department

| Sr. No. | Name of Visitor | Purpose of Visit | Date |
|---------|-----------------|---|-------------|
| 1 | Dr.S.Shinde | Expert Session on “How to read and write Research Paper” | 17/3/2017 |
| 2 | Dr J.Uamale | Expert Lecture On High Performance Computing | 26/12/ 2016 |
| 3 | Dr. Uke | Expert Lecture On Effective Googling N Different Research | 29/12/ 2016 |

| | | Tool | |
|----|---|--|-------------|
| 4 | Dr. Futane | Expert Lecture On Different Applications Of Sign Language In Computer Vision | 28/12/ 2016 |
| 5 | Dr. Lakade | Expert Lecture On Innovation And Research In MCA Project | 27/12/2016 |
| 6 | Mrs Shilpa Dhavale | Expert Session On Effective Communication And Etiquette | 7/1/2017 |
| 7 | Mr. Adi Murthy, Group Project Manager, KPIT Technologies, Pune | Three days workshop on “SPM & QA Tools” for SY MCA Students (07/01/2017 to 09/01/2017) | 07/01/2017 |
| 8 | Mr. Sadik Shaik | Session on “Ethical Hacking” | 24/9/2016 |
| 9 | Mr. Mallikarjun Malle | Session on “Cyber Crime and Case Studies” | 24/9/2016 |
| 10 | Mr. Ganesh Gupta | Session on “Intellectual Property Rights, Indian IT Act / Copy Right Act” | 23/9/2016 |
| 11 | Aditi Suryanarayan | Two days workshop for MCA first year students. (27/06/16 and 29/06/16) | 29/06/2016 |
| 12 | Anamika Dasgupta Sharma, The Potter's Earth, Pune | Two days workshop for MCA first year students. (27/06/16 and 29/06/16) | 29/06/2016 |
| 13 | Dr. Rajeev Nagarkar | Session on “Techniques of Concentration” | 29/06/2016 |
| 14 | Rohit Mittal, IBM Hyderabad | IBM JAVA trainer, Add on course | 03/06/16 |
| 15 | Mr. Anil Patil Mr. Manish Kulkarni | Session on “Business Intelligence & Its Applications” | 30/03/2016 |
| 16 | Mr. Aniket Kadam Western Academics | Personality Development & Interview skill | 30/03/2016 |
| 17 | Mr. Arpit Khurana, Founder of NSDM | Carrier opportunity in digital marketing | 02/03/16 |
| 18 | Mr. Tushar B. Kute, MITu skillologies, Nishik | Workshop on Linux for Students | 23/12/2015 |
| 19 | Mrs. Radhi Nair | Soft Skill Training for SYMCA Students | 04/11/2015 |
| 20 | Dr. H. S. Acharya | FDP on Scope of Research in Project work | 10/12/2015 |
| 21 | Mr. Mallikarjun Malle | Guest lecture of Information Cyber security for Students | 14/10/2015 |
| 22 | Mr. Pawan Pathak | Human Rights Session | 29/09/2015 |
| 23 | Mr. Ganesh Subhash Gupta | Guest Lecture on Human Rights for Students | 28/09/2015 |
| 24 | Dr. Anuja Johri | Team Building Session for | 22/08/2015 |

| | | | |
|----|-----------------------|---|------------|
| | | MCA-I students | |
| 25 | Mr. Manish Kumar Jain | Cloud computing workshop | 02/08/2015 |
| 26 | Sonali Patil | Information Cyber Security Session | 08/03/2015 |
| 27 | Avadhoot Dhamdhare | Guest Lecture on “Information Security & IT Governance” | 12/03/2015 |
| 28 | Shekhar Parnerkar | BigData STTP | 13/02/2015 |

25. Seminars/ Conferences/Workshops organized & the source of funding

- a) **National** : Nil
b) **International** : Nil

26. Student profile programme /course wise:

| Name of the Course/Programme | Academic Year | Applications received | Selected | Enrolled | | Pass percentage |
|---------------------------------|---------------|-------------------------------|----------|----------|----|----------------------------------|
| | | | | *M | *F | |
| Master of Computer Applications | 2013-2014 | Centralized Admission Process | 65 | 47 | 18 | 76% (Appeared) 61% (Admitted) |
| | 2014-2015 | | 73 | 48 | 25 | -- |
| | 2015-2016 | | 56 | 29 | 27 | -- |
| | 2016-2017 | | 59 | 38 | 21 | -- |

*M = Male *F = Female

27. Diversity of Students

| Name of the Course/Programme | Academic Year | % of students from the same state | % of students from other States | % of students From abroad |
|---------------------------------|---------------|-----------------------------------|---------------------------------|---------------------------|
| Master of Computer Applications | 2013-14 | 57 (87.69) | 8 (12.31) | - |
| | 2014-15 | 67 (91.78) | 6 (8.22) | - |
| | 2015-16 | 53 (94.64) | 3 (5.36) | - |
| | 2016-17 | 52 (88.13) | 7 (11.87) | - |

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Nil.

29. Student progression

| Student Progression | Against % enrolled |
|---------------------|--------------------|
|---------------------|--------------------|

| | 2016-17 | 2015-16 | 2014-15 | 2013-14 |
|----------------------------------|---------|---------|---------|---------|
| UG to PG | Nil | Nil | Nil | Nil |
| PG to M.Phil | Nil | Nil | Nil | Nil |
| PG to Ph.D | Nil | Nil | Nil | Nil |
| Ph.D to Post-Doctoral | Nil | Nil | Nil | Nil |
| Employed | | | | |
| • Campus Selection | 74.50 | 65.45 | 52.23 | 61.40 |
| • Other than campus recruitment | 0.058 | 18.18 | 29.85 | 26.31 |
| Entrepreneurship/Self-Employment | Nil | 09.09 | Nil | Nil |

30. Details of Infrastructural facilities

| Sr. No. | Infrastructural facility | Details of Item | Number |
|---------|--|---------------------------------|--------------|
| 1 | Library | Books | 599 |
| | | Volumes | 3457 |
| | | Journals | 13 |
| | | Journal In softcopy | IEEE Package |
| | | CDs | 394 |
| 2 | Internet facility for staff and students | Computers | 103 |
| | | Internet facility and Bandwidth | 01 |
| 3 | Classrooms with ICT facility | | 15 MBPS |
| 4 | Computer Labs | | 3 |

31. Number of students receiving financial assistance from college, university, government or other agencies

| S. No. | Details of financial assistance | Academic year/ No of students | | |
|--------|---------------------------------|-------------------------------|-----------|-----------|
| | | 2013-2014 | 2014-2015 | 2015-2016 |
| 1 | OBC Freeship | 0 | 23 | 17 |
| 2 | SC Freeship / Scholarship | 16 | 15 | 08 |
| 3 | SBC Freeship | 1 | 1 | 1 |
| 4 | ST Freeship | 0 | 0 | 1 |

| | | | | |
|---|----------------|---|---|----|
| 5 | VJ/NT Freeship | 9 | 0 | 04 |
|---|----------------|---|---|----|

32. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

| Sr. No. | Type of Enrichment programme | Topic | Target audience | Duration and Date | Name of Resource Persons | Details of Expert (Name, designation, organization) | No of Participants |
|---------|---|---|-------------------------|---|---|---|--------------------|
| 1 | Communication And Personality Development | “Brainwaves - 2016 – English Communication vocabulary competition.” | Students of MBA and MCA | 4 th Sept 2016, 3.00 am to 5.00 pm | Prof. Sopan Aghav, Prof. Suchita Borkar | Assistant Professor, PCCOE MCA department | 84 |
| 2 | Human Rights Awareness | “Introduction to Human Rights and Duties” | Students of MCA | 28 th Sept 2016, 3.00 am to 5.00 pm | Mr. Ganesh Gupta, | Lawyer and Social Activist- Human Rights | 50 |
| 3 | Networking and Cyber Crime | Cyber Netrek, Networking Workshop For the students from Students | Students of MCA | 6 th & 7 th September 2016. | Prof. Prakash Ukhalkar | Assistant Professor, PCCoE MCA department | 90 |
| 4 | Communication And Personality Development | Essentials for IT Mind" | Students | 12 th Aug 2015, 9.00 am to 5.00 pm | Prof. Anuradha Phadnis | Assistant Professor, DY Patil college | 50 |
| 5 | Communication And Personality Development | Team Building, self-concept and self-esteem | Students of MCA | 22 nd Aug 2015, 1.00 am to 3.00pm | Dr. Anuja johri | HOD MBA | 50 |
| 6 | Communication And Personality Development | “Brainwaves - 2015 – English Communication vocabulary competition.” | Students of MBA and MCA | 4 th Sept 2015, 3.00 am to 5.00 pm | Prof. Sopan Aghav, Prof. Suchita Borkar | Assistant Professor, PCCOE MCA department | 84 |
| 7 | Cyber Security And Its Impact | “Introduction To Cyber Security” | Students of MCA | 14 th Oct 2015, 3.00 am to 5.00 pm | Mr. Mallikarjun Malle, | Information Security & Cyber Crime Expert, Mumbai | 50 |

| | | | | | | | |
|----|---|---|-----------------|--|---------------------|---|----|
| 8 | Human Rights Awareness | “Introduction to Human Rights and Duties” | Students of MCA | 28 th Sept 2015, 3.00 am to 5.00 pm | Mr. Ganesh Gupta, | Lawyer and Social Activist-Human Rights | 50 |
| 9 | Linux Programming | Linux workshop | Students of MCA | 21 st December 2015 to 23 rd December 2015 | Mr. Tushar B. Kute, | MITu skillologies, Nashik | 45 |
| 10 | Communication and Personality Development | Soft Skill Training | Students of MCA | 19 to 28 August 2015 | Radhi Nair | Freelance Trainer | 48 |
| 11 | Logic Building | Logic Building workshop | Students of MCA | 21 st December 2015 to 23 rd December 2015 | Prof. Anand Jain | Assistant Professor, PCCOE MCA department | 45 |

33. Teaching methods adopted to improve student learning

We believe that each student is unique and needs motivating, stimulating, well directed and secure environment to grow intellectually and socially. We at MCA department take this responsibility to provide such environment. One of the prime factors of this environment is our various teaching learning methodologies, as mentioned below:

1. **Classroom Lectures:** It is the most common and preferred teaching method. This method is used for all theory subjects. This method gives chance to teachers to interact with all students in that class because of which teachers can know the intellectual level of students and accordingly provide them the inputs to make the realization of concepts in a better way. During lecture, following activities are also done by teachers, as and when required, which helps to improve the student learning:
 - a) Quick revision of topics
 - b) Classroom assignments for practice purpose
 - c) Asking questions to students to check their understanding
 - d) Discussion among students
 - e) Use of videos / animations
2. **Demonstrations:** It is the process of teaching through examples, coding and dry runs. This method helps the students to visualize the concepts, understand their working and their applications. This method is also used in all subjects; and extensively in programming and mathematics subjects. This method helps to improve the intellectual abilities of students.
3. **Project Work :** Project based learning methodology is adopted in the department

to understand project development life cycle and use effective State of Art Technologies.

4. **Activities:** This method involves active participation of students in curricular and extracurricular activities. This method is the major source to promote self learning among the students. In MCA department, this method is used extensively, though it is need based. Teachers decide the activities based on their evaluation about the students, interest of students and relevance of the activity in their subject. Following is the list of curricular activities:

1. Theory Assignments
2. Practical Assignments
3. Presentations on given topic
4. Role Plays
5. Poster Making
6. Case Studies
7. Paper Writing
8. Coding / Simulation

Department also take efforts to *improve the soft skills and managerial skills* of students by extra curricular activities:

1. Group Discussions
2. Presentations
3. ProLaunch - The product launch activity
4. KYC - Know Your Company
5. Mock Interviews
6. Insperia - A state level techno management event
7. Project Competitions
8. Kairoz

5. **Sessions by Industry Experts:** We understand that IT industry is very dynamic. Its need changes rapidly. To meet these changing requirements and to bridge the gap between industry and academics, one of our efforts is to organize the sessions on current affairs, latest technologies and trends in industries, by the experts in industries. This method helps to give wide exposure of latest tools and technologies used in industries to our students. It also helps to make the students industry-ready. These sessions are conducted in the form of guest lectures, seminars, workshops, and training programs. Every year department organizes training programs on Java, MS.Net, Aptitude, and English; to name a few.
6. **Industry Visits:** As a aspect of academics, Industrial Visit has its own importance in a career of a student who is pursuing a professional degree. The Industry Visits are arranged to explore the understanding of working culture of organizations.
7. **Alumni Interaction:** Alumnus are important part of program. They act as a bridge between college and the industries for interaction on new developments in

Information Technology. Through alumni interaction we provide an insight of latest trends, working culture at various industries.

- 8. Exposure of Society Needs:** We believe that the application of knowledge is for the benefit of society. In view of this department provides a platform through project development and extra activities for the students to address the society need.

34. Participation in Institutional Social Responsibility (ISR) and Extension activities

ISR and Extension activities are organized under the aegis of various cells like NSS, Art Circle, MCASA cell, Induction Program and Insuperia at the Institute.

| Sr. No. | Type of Activity | Detail of Activity | No. of Participants (Faculty & Students) |
|---------|---|---|--|
| 1 | National Service Scheme (NSS) | | Students: 6 Faculties: 3 |
| 2 | Visit to Mahatma Gandhi School, Dehu road | English and Maths Teaching to 5-10 Std. Tree Plantation and Save water message. | Students: 15 Faculties: 3 |
| 3 | Study Tour to Hiware Bazar, Ahamad Nagar | Social Study tour to Hiware Bazar | College Level |
| 4 | Denaryache Hath Ghyawe | Fund Generation for NAAM Foundation | College Level |
| 5 | Three days "COMPUTER FUNDAMENTALS Training Program" | Training program for rural school teachers at "Pawana School" Yeleshe, Pune | Students: 20 Faculty: 10 |

35. SWOC analysis of the department and Future plans

Strengths:

- Blend of dedicated qualified and experienced young faculty
- Continuous improvement in Academic results
- Faculty retention
- Team work
- Good Environment for overall development of students.
- Effective monitoring system for students.

Weaknesses:

- Research and Consultancy
- Placement Eligibility

Opportunities:

- Scope for development of research and consultancy

- Strengthening Industry Institute Interaction
- Scope for guiding students for entrepreneurship in order to create employment

Challenges:

- Lack of Professional competency in the first year students.
- To bring all the students with diverse educational background to a common learning platform

Future Plans:

- Emerge as a center of Excellence in Management Education
- To attract funding research projects through funding agencies.
- To develop R & D and consultancy activities through research projects.



PIMPRI CHINCHWAD EDUCATION TRUST'S

PIMPRI CHINCHWAD COLLEGE OF ENGINEERING

(An ISO 9001:2008 Certified Institute)



- N.B.A. Accredited Courses • Mech. Engg • Comp. Engg • E & TC. Engg • I. T.
- Permanently Affiliated to Savitribai Phule Pune University, Pune
- Approved by A.I.C.T.E., New Delhi, Govt. of Maharashtra, D.T.E, Mumbai

Dnyaneshwar P. Landge
Chairman

Padmatai Bhosale
Vicechairman

Vitthalrao S. Kalbhor
Secretary

Dr. A. M. Fulambarkar
Principal

Ref. No. : PCCOE/D/2016-17/1590

Date : 22/03/17

Declaration by the Head of the Institute

I certify that the data included in Self-Study Report (SSR) are true to the best of my knowledge.

This SSR is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the Peer team will validate the information provided in this SSR during the peer team visit.



A. M. Fulambarkar
Dr. A. M. Fulambarkar
Principal

Date:

Place: Pune



ANNEXURES

Ph. 23236351, 23232701, 23237721
23234116, 23235733, 23232317
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)
UGC Website: www.ugc.ac.in



ज्ञान-विज्ञान विमुक्तये
SPEED POST

विश्वविद्यालय अनुदान आयोग
बहादुरशाह जफर मार्ग
नई दिल्ली-110 002
UNIVERSITY GRANTS COMMISSION
BAHADURSHAH ZAFAR MARG
NEW DELHI-110 002

F. No. 8-357/2013 (CPP-I/C)

March, 2015

The Registrar,
Savitribai Phule University of Pune
Ganeshkind, Pune – 411 007
Maharashtra

REG IN No. 3482
Date 30/03/15 File

25 MAR 2015

Sub: Recognition of College under Section 2 (f) & 12 (B) of the UGC Act, 1956.

Sir,

I am directed to refer to the letter no. PCCOE/Letter/UGC/2014-15/1188 dated 18.12.2014 received from the Principal, Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering, Sector No. 26, Pradhikaran, Nigdi, Pune – 411 044, Maharashtra on the above subject and to say that it is noted that the following College is **un-aided/self financed** and **permanently** affiliated to **Savitribai Phule University of Pune, Ganeshkhind**. I am further to say that the name of the following college has been included in the list of colleges prepared under Section 2 (f) & 12 (B) of the UGC Act, 1956 under the head '**Non-Government, self financed** Colleges teaching upto **Bachelor's Degree**':-

| Name of the College | Year of Establishment | Remarks |
|---|-----------------------|--|
| Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering, Sector No. 26, Pradhikaran, Nigdi, Pune – 411 044, Maharashtra. | 1999 | The College is now declared fit to receive Central assistance in terms of Rules framed under Section 12 (B) of the UGC Act, 1956. However, the College, being a self financing & unaided, would be eligible to receive UGC's support only in respect of teachers & students related schemes as per the decision of the Commission dated 8 th July 2011. |

The Indemnity Bond and the other supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

(Charan Dass)
Under Secretary

Copy to:-

1. The Principal, Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering, Sector No. 26, Pradhikaran, Nigdi, Pune – 411 044, Maharashtra.
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Secondary & Higher Education, Shastri Bhawan, New Delhi - 110 001.
3. The Principal Secretary, Tech. & Higher Education Deptt. Government of Maharashtra, Mantralaya, Annexe Building, Mumbai – 400 032, (Maharashtra).
4. The Joint Secretary, UGC, Western Regional Office (WRO), Ganeshkhind, Poona – 411 007, (Maharashtra).
5. Publication Officer (UGC-Website), New Delhi.
6. Section Officer (FD-III Section), UGC, New Delhi.
7. Guard file.

(Rita Chhabra)
Section Officer

To Registrar

For circulation among all concerned

31/3/15 Af

To file for records & further reference
Rajeshwar Af

MAIL IN No. 3034

Date 07/05/16 File

दूरध्वनी क्रमांक :

०२०-२५६९१२३३

२५६०१२५७

२५६०१२५८

२५६०१२५९



15120040

सावित्रीबाई फुले पुणे विद्यापीठ

(पूर्वीचे पुणे विद्यापीठ)



टेलिग्राफ : 'युनिपुणे'

फॅक्स : ०२०-२५६९१२३३

वेबसाइट : www.unipune.ac.in

इ-मेल : dyracademic@unipune.ac.in

शैक्षणिक विभाग
गणेशखिंड, पुणे-४११००७.

संदर्भ क्र.: CA/1010

दि.: ०३/०५/२०१६

प्रति,

मा. प्राचार्य,

पिंपरी चिंचवड ऐजुकेशन ट्रस्ट पिंपरी चिंचवड

अभियांत्रिकी पत्ता: २६ सेक्टर, निगडी प्राधिकरण, पुणे

ता.: पिंपरी चिंचवड (महानगर पालिका हद्द) जि: पुणे

विषय:- अटीच्या पूर्ततेच्या पडताळणी अहवालबाबत...

महोदय,

वरील विषयासंदर्भात विद्यापीठ अधिकार मंडळाने घेतलेल्या निर्णयानुसार आपणास कळविण्यात येते की, आपल्या महाविद्यालयास शैक्षणिक वर्ष २०१६-२०१७, या वर्षाकरिता खालील रकान्यात नमूद केलेल्या अभ्यासक्रमांच्या सलगनीकरणाच्या नूतनीकरणास / नैसर्गिकवादीस अखिल भारतीय तंत्रशिक्षण परिषद, नवी दिल्ली व तंत्रशिक्षण संचालनालय, महाराष्ट्र शासन यांचे अभ्यासक्रम व प्रवेश क्षमता मान्यतेच्या अधीन राहून अटी पूर्ततेचा पडताळणी अहवाल स्वीकारण्यात आलेला आहे.

शैक्षणिक वर्ष २०१६-२०१७ करिता अटी पूर्तता अहवालाचे पत्र देत असताना स्थानिक चौकशी समितीच्या अहवालात नमूद केलेल्या ज्या शिक्षकांच्या तदर्थ नेमणुका करण्यात आलेल्या आहेत अशा सर्व शिक्षकांना शैक्षणिक वर्ष २०१६-२०१७ मध्ये कायम ठेवण्यात यावे. तसेच याबाबत विद्यापीठामार्फत वेळोवेळी तपासणी करण्यात येईल.

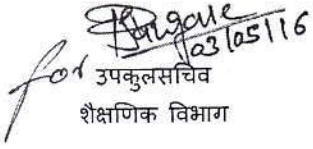
| अनु. क्र. | अभ्यासक्रमाचा तपशील | विद्यार्थी संख्या | प्रथमपाळी/द्वितीय पाळी | संलगनीकरणाचा प्रकार |
|-----------|---|-------------------|--|---------------------|
| 1 | एम.इ. (इन्फर्मेशन टेक्नॉलॉजी) | 24 | 2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1,, | नूतनीकरण |
| 2 | एम.इ. (इलेक्ट्रॉनिक्स) एम्बेडेड सिस्टिम्स अँड व्हीएलएसआय डीझाइन | 18 | 2016-2017 : - वर्ष प्रथम व द्वितीय- दुसरी पाळी Div No. 1,, | नूतनीकरण |
| 3 | एम.इ. (कॉम्प्युटर) | 18 | 2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1,, | नूतनीकरण |
| 4 | एम.इ. (मेक.) हीट पॉवर इंजिनियरिंग | 18 | 2016-2017 : - वर्ष प्रथम व द्वितीय- दुसरी पाळी Div No. 1,, | नूतनीकरण |
| 5 | एम.इ. (मेकॅनिकल डिझाइन) | 18 | 2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1,, | नूतनीकरण |
| 6 | एम.बी.ए. | 60 | 2016-2017 : - वर्ष प्रथम व द्वितीय- Div No.1,, | नूतनीकरण |
| 7 | एम.सी.ए. | 60 | 2016-2017 : - वर्ष पहिले ते तिसरे- Div No.1,, | नूतनीकरण |

Y/br
RBR
6/5/16
AP

| | | | | |
|----|--|----|--|----------|
| 8 | बी.ई. (इलेक्ट्रॉनिक्स अँड टेलिकम्यूनिकेशन) | 60 | 2016-2017 : - वर्ष पहिले ते चौथे- दुसरी पाळी Div No. 3., | नूतनीकरण |
| 9 | बी.ई. (कॉम्प्युटर) | 60 | 2016-2017 : - वर्ष पहिले ते चौथे- दुसरी पाळी Div No. 3., | नूतनीकरण |
| 10 | बी.ई. (मेकॅनिकल) | 60 | 2016-2017 : - वर्ष पहिले ते चौथे- दुसरी पाळी Div No. 3., | नूतनीकरण |
| 11 | बी.ई. (सिविल) | 60 | 2016-2017 : - वर्ष पहिले ते चौथे- Div No.1., | नूतनीकरण |

कळावे,

आपला,

for 
उपकुलसचिव
शैक्षणिक विभाग



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

F.No. Western/1-2809598278/2016/EOA

Date: 25-Apr-2016

To,

The Secretary,
Tech. & Higher Education Deptt.
Govt. of Maharashtra, Mantralaya,
Annexe Building, Mumbai-400032

Sub: Extension of approval for the academic year 2016-17

Ref: Application of the Institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

| | | | |
|---------------------------|---|-----------------------|---|
| Regional Office | Western | Application Id | 1-2809598278 |
| Name of the Institute | PIMPRI CHINCHWAD COLLEGE OF ENGINEERING | Permanent Id | 1-6028469 |
| Name of the Society/Trust | PIMPRI CHINCHWAD COLLEGE OF TRUST'S | Institute Address | SECTOR NO 26, PRADHIKARAN, NIGADI, PUNE 44, PUNE, PUNE, Maharashtra, 411044 |
| Institute Type | Unaided - Private | Society/Trust Address | SECTOR NO. 26, PRADHIKARAN, NIGDI PUNE 411044, NIGDI, PUNE, PUNE, Maharashtra, 411044 |

| | | | | | |
|---|----------------|--------------------------|----------------|--------------------------|----------------|
| Opted for change from Women to Co-ed and Vice versa | No | Opted for change of name | No | Opted for change of site | No |
| Change from Women to Co-ed approved and Vice versa | Not Applicable | Change of name Approved | Not Applicable | Change of site Approved | Not Applicable |

To conduct following courses with the intake indicated below for the academic year 2016-17

| Application Id: 1-2809598278 | | | Course | Full/Part Time | Affiliating Body | Intake 2015-16 | Intake Approved for 2016-17 | NRI Approval status | PIO / FN / Gulf quota Approval status | Foreign Collaboration/Twinning Program Approval status* |
|------------------------------|-----------|---------------|----------------------|----------------|--------------------------|----------------|-----------------------------|---------------------|---------------------------------------|---|
| Program | Shift | Level | | | | | | | | |
| ENGINEERING AND TECHNOLOGY | 1st Shift | POST GRADUATE | COMPUTER ENGINEERING | FULL TIME | University of Pune, Pune | 18 | 18 | NA | NA | NA |

R/Siv
26/4/16



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

| | | | | | | | | | | |
|----------------------------|-----------|----------------|--|-----------|--------------------------|-----|-----|-----|-----|----|
| ENGINEERING AND TECHNOLOGY | 1st Shift | POST GRADUATE | INFORMATION TECHNOLOGY | FULL TIME | University of Pune, Pune | 24 | 24 | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | POST GRADUATE | MECHANICAL ENGINEERING DESIGN | FULL TIME | University of Pune, Pune | 18 | 18 | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDER GRADUATE | CIVIL ENGINEERING | FULL TIME | University of Pune, Pune | 60 | 60 | Yes | Yes | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDER GRADUATE | COMPUTER ENGINEERING | FULL TIME | University of Pune, Pune | 120 | 120 | Yes | Yes | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDER GRADUATE | ELECTRONICS & TELE-COMMUNICATION ENGINEERING | FULL TIME | University of Pune, Pune | 120 | 120 | Yes | Yes | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDER GRADUATE | INFORMATION TECHNOLOGY | FULL TIME | University of Pune, Pune | 60 | 60 | Yes | Yes | NA |
| ENGINEERING AND TECHNOLOGY | 1st Shift | UNDER GRADUATE | MECHANICAL ENGINEERING | FULL TIME | University of Pune, Pune | 120 | 120 | Yes | Yes | NA |
| ENGINEERING AND TECHNOLOGY | 2nd Shift | POST GRADUATE | HEAT POWER ENGINEERING | FULL TIME | University of Pune, Pune | 18 | 18 | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 2nd Shift | POST GRADUATE | VLSI AND EMBEDDED SYSTEMS | FULL TIME | University of Pune, Pune | 18 | 18 | NA | NA | NA |
| ENGINEERING AND TECHNOLOGY | 2nd Shift | UNDER GRADUATE | COMPUTER ENGINEERING | FULL TIME | University of Pune, Pune | 60 | 60 | Yes | Yes | NA |



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-india.org

| | | | | | | | | | | |
|----------------------------|-----------|---------------|--|-----------|--------------------------|----|----|-----|-----|----|
| ENGINEERING AND TECHNOLOGY | 2nd Shift | UNDERGRADUATE | ELECTRONICS & TELE-COMMUNICATION ENGINEERING | FULL TIME | University of Pune, Pune | 60 | 60 | Yes | Yes | NA |
| ENGINEERING AND TECHNOLOGY | 2nd Shift | UNDERGRADUATE | MECHANICAL ENGINEERING | FULL TIME | University of Pune, Pune | 60 | 60 | Yes | Yes | NA |
| MANAGEMENT | 1st Shift | POSTGRADUATE | BUSINESS ADMINISTRATION | FULL TIME | University of Pune, Pune | 60 | 60 | NA | NA | NA |
| MCA | 1st Shift | POSTGRADUATE | MASTERS IN COMPUTER APPLICATIONS | FULL TIME | University of Pune, Pune | 60 | 60 | NA | NA | NA |

The above mentioned approval is subject to the condition that PIMPRI CHINCHWAD COLLEGE OF ENGINEERING shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case Institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

Note: Validity of the course details may be verified at www.aicte-india.org

Dr. Avinash S Pant
Vice - Chairman, AICTE

Copy to:

- The Regional Officer,**
All India Council for Technical Education
Industrial Assurance Building
2nd Floor, Nariman Road
Mumbai - 400 020, Maharashtra
- The Director Of Technical Education,**
Maharashtra
- The Registrar,**
University of Pune, Pune



All India Council for Technical Education
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 www.aicte-India.org

4. **The Principal / Director,**
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING
SECTOR NO 26, PRADHIKARAN, NIGADI, PUNE 44,
PUNE, PUNE,
Maharashtra, 411044
5. **The Secretary / Chairman,**
PIMPRI CHINCHWAD COLLEGE OF TRUST'S
SECTOR NO. 26, PRADHIKARAN, NIGDI PUNE 411044,
NIGDI, PUNE, PUNE,
Maharashtra, 411044
6. **Guard File(AICTE)**

NATIONAL BOARD OF ACCREDITATION

NBCC Place, East Tower, 4th Floor, Bhisham Pitamah Marg,
Pragati Vihar, New Delhi-110 003
Tel: +91 11 2436 0620-22, 2436 0654 Telefax: +91 11 2436 0682
Website: www.nbaind.org



File No: 28-391-2010-NBA

Date : 26-10-2016

To,

The Principal,
Pimpri Chinchwad Education Trust's
Pimpri Chinchwad College of Engineering,
Sector 26, Pradhikaran, Nigdi,
Pune 411044, Maharashtra.

Subject: Accreditation status of programmes applied by Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering, Sector 26, Pradhikaran, Nigdi, Pune 411044, Maharashtra.

Sir,

This has reference to your application Id. 1402-22/07/2015 seeking accreditation by National Board of Accreditation to UG Engineering programmes offered by Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering, Sector 26, Pradhikaran, Nigdi, Pune 411044, Maharashtra.

2. An Expert Team conducted on-site evaluation of the programmes during 29th to 31st July, 2016. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The competent authority in NBA has approved the following accreditation status to the programmes as given in the table below:

| S.No. | Name of the Programme (UG) | Basis of Evaluation | Accreditation Status | Period of validity | Remarks |
|-------|---|---------------------|---|--|--|
| (1) | (2) | (3) | (4) | (5) | (6) |
| 1. | Mechanical Engineering | Tier-II Document | Provisionally Accredited | Academic Years 2016-2017 and 2017-2018 i.e., upto 30-06-2018 | Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the competent authority, whichever is earlier. |
| 2. | Computer Engineering | | Provisionally Accredited | | |
| 3. | Information Technology | | Provisionally Accredited (753 Marks awarded by the Visiting Team reduced to 741 as per the observations made and indicated in the Annexure to this letter) | | |
| 4. | Electronics and Telecommunication Engineering | | Provisionally Accredited | | |

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The program(s) have been granted provisional accreditation. Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering, Sector 26, Pradhikaran, Nigdi, Pune 411044, Maharashtra should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above. It may require submission of pre-qualifier before sending the Compliance report for granting further Accreditation.

5. The accreditation status awarded to the programmes as indicated in the above table does not imply that the accreditation has been granted to Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering, Sector 26, Pradhikaran, Nigdi, Pune 411044, Maharashtra as a whole. **As such, the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is programme accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the programme(s) accredited, level of programmes and the period of validity of accreditation, as well as the date from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

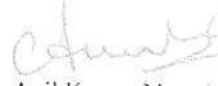
6. The accreditation status of the above programmes is subject to change on periodic review, if needed by the NBA. It is desired that the relevant information in respect of accredited programmes as indicated in the table in paragraph 2, appears on the website and information bulletin of the Institute.

7. The accreditation status awarded to the programmes as indicated in table in paragraph 2 above is subject to maintenance of the current standards during the period of accreditation. If there are any changes in the status (major changes of faculty strength, organizational structure etc.), the same are required to be communicated to the NBA, with an appropriate explanatory note.

8. Copies of the Report of Chairman of the Visiting Team and Evaluators' Reports in respect of the above programmes are enclosed.

9. If the Institute is not satisfied with the decision of NBA, it may appeal within thirty days of receipt of this communication giving reasons for the same and by paying the requisite fee.

Yours faithfully,


(Dr. Anil Kumar Nassa)
Member Secretary

Encls: 1. Copy of Report of Chairman of the Visiting Team.
2. Copies of Expert Reports of the Visiting Team.

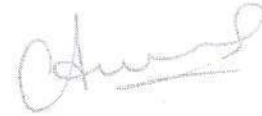
Copy to:

1. The Director of Technical Education
Mahapalika Marg, Dhobi Talao,
Chhatrapati Shivaji Terminus Area,
Fort, Mumbai,
Maharashtra 400001.
2. The Registrar,
University of Pune,
Ganeshkhind, Pune-411 007.
3. Master Accreditation Folder of the State.

Annexure

Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering, Sector 26, Pradhikaran, Nigdi, Pune 411044, Maharashtra

| NAME OF THE PROGRAMME | OBSERVATIONS |
|---------------------------|--|
| UG Information Technology | <p>Criterion 8 (GIS & FR): Insufficient volumes and very less number of e-journals. Poor procurement of new books in the Library.</p> <p>Criterion 9 (CI) : The deficiency pointed out during previous visit still persisting.</p> |



CERTIFICATE

**TUV NORD**

Management system as per
ISO 9001 : 2008

In accordance with TÜV NORD CERT procedures, it is hereby certified that

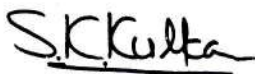
PIMPRI CHINCHWAD COLLEGE OF ENGINEERING
Sector No.26, Pradhikaran, Nigdi,
Pune – 411 044, Maharashtra,
India

applies a management system in line with the above standard for the following scope

To Provide Education for Under Graduate Degree Courses in Mechanical Engineering, Computer Engineering, Electronics & Telecommunication Engineering, Information Technology, Civil Engineering and Post Graduate Degree Courses in Mechanical Engineering, Computer Engineering, Electronics & Telecommunication Engineering, Master of Computer Applications (MCA) and Master of Business Administration (MBA)

Certificate Registration No. 44 100 14390110
Audit Report No. 2.5-6425/2014

Valid until 31.03.2017



Certification Body
at TÜV NORD CERT GmbH

Issue 01.04.2014

Place : Mumbai

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures and is subject to regular surveillance audits.

TÜV NORD CERT GmbH

Langemarckstrasse 20

45141 Essen

www.tuev-nord-cert.com



TGA-ZM-07-06- 00

MASTER PLAN

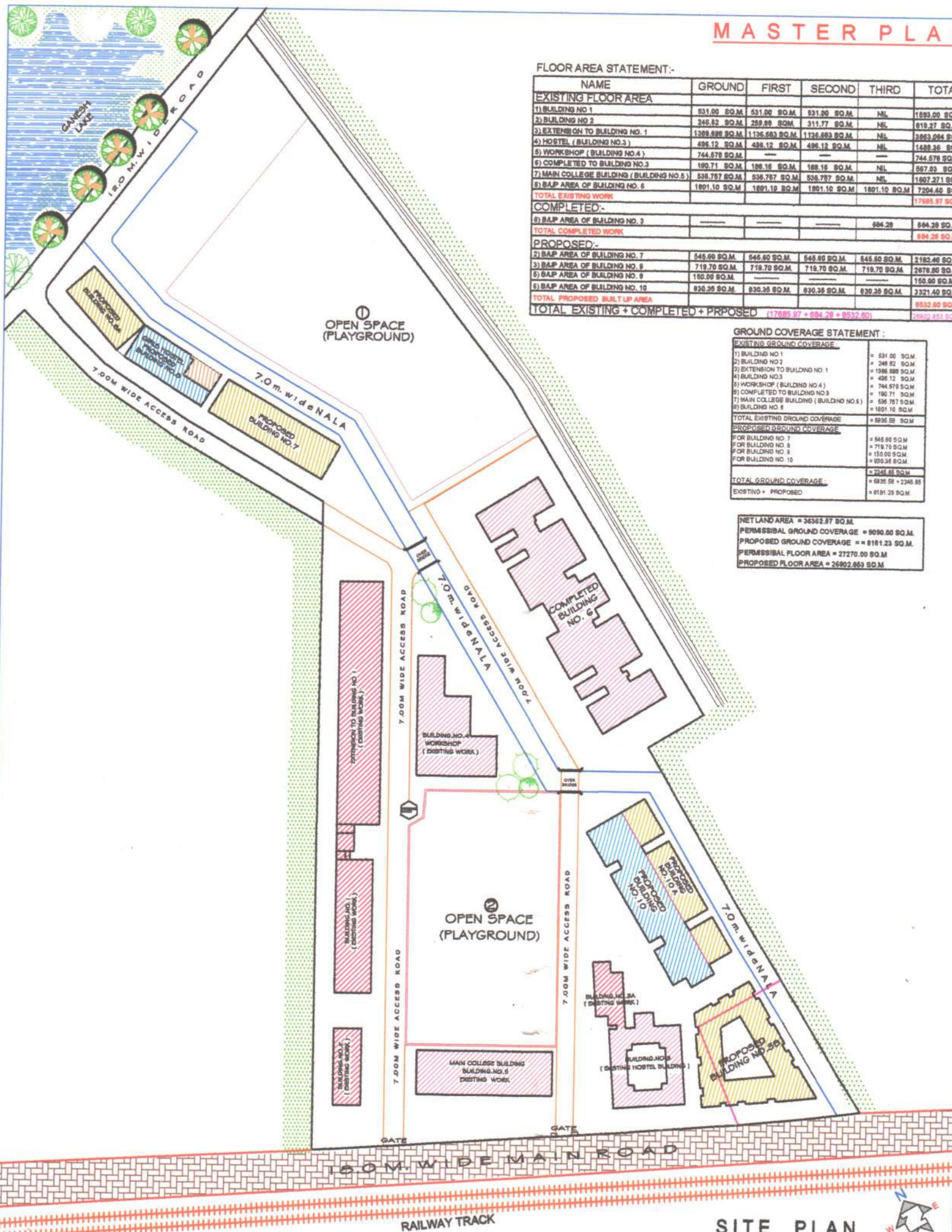
FLOOR AREA STATEMENT:-

| NAME | GROUND | FIRST | SECOND | THIRD | TOTAL |
|--|---------------|---------------|---------------|--------------|---|
| EXISTING FLOOR AREA | | | | | |
| 1) BUILDING NO 1 | 531.00 SQ.M | 531.00 SQ.M | 531.00 SQ.M | NIL | 1593.00 SQ.M |
| 2) BUILDING NO 2 | 246.52 SQ.M | 259.88 SQ.M | 311.77 SQ.M | NIL | 818.17 SQ.M |
| 3) EXTENSION TO BUILDING NO. 1 | 1389.688 SQ.M | 1136.683 SQ.M | 1136.683 SQ.M | NIL | 2663.054 SQ.M |
| 4) HOSTEL (BUILDING NO.3) | 496.12 SQ.M | 496.12 SQ.M | 496.12 SQ.M | NIL | 1488.36 SQ.M |
| 5) WORKSHOP (BUILDING NO.4) | 744.578 SQ.M | --- | --- | --- | 744.578 SQ.M |
| 6) COMPLETED TO BUILDING NO.3 | 190.71 SQ.M | 190.16 SQ.M | 190.16 SQ.M | NIL | 567.93 SQ.M |
| 7) MAIN COLLEGE BUILDING (BUILDING NO.5) | 536.787 SQ.M | 536.787 SQ.M | 536.787 SQ.M | NIL | 1607.271 SQ.M |
| 8) BAP AREA OF BUILDING NO. 6 | 1801.10 SQ.M | 1801.10 SQ.M | 1801.10 SQ.M | 1801.10 SQ.M | 7204.40 SQ.M |
| TOTAL EXISTING WORK | | | | | 17685.97 SQ.M |
| COMPLETED:- | | | | | |
| 8) BAP AREA OF BUILDING NO. 3 | --- | --- | --- | 584.28 | 584.28 SQ.M |
| TOTAL COMPLETED WORK | | | | | 584.28 SQ.M |
| PROPOSED:- | | | | | |
| 2) BAP AREA OF BUILDING NO. 7 | 546.60 SQ.M | 546.60 SQ.M | 546.60 SQ.M | 546.60 SQ.M | 2182.40 SQ.M |
| 3) BAP AREA OF BUILDING NO. 8 | 719.70 SQ.M | 719.70 SQ.M | 719.70 SQ.M | 719.70 SQ.M | 2878.80 SQ.M |
| 5) BAP AREA OF BUILDING NO. 9 | 150.00 SQ.M | --- | --- | --- | 150.00 SQ.M |
| 5) BAP AREA OF BUILDING NO. 10 | 830.35 SQ.M | 830.35 SQ.M | 830.35 SQ.M | 830.35 SQ.M | 3321.40 SQ.M |
| TOTAL PROPOSED BUILT UP AREA | | | | | 6532.60 SQ.M |
| TOTAL EXISTING + COMPLETED + PROPOSED | | | | | (17685.97 + 584.28 + 6532.60) 24802.853 SQ.M |

GROUND COVERAGE STATEMENT :

| | |
|--|----------------------------|
| EXISTING GROUND COVERAGE | |
| 1) BUILDING NO 1 | = 531.00 SQ.M |
| 2) BUILDING NO 2 | = 246.52 SQ.M |
| 3) EXTENSION TO BUILDING NO 1 | = 1389.688 SQ.M |
| 4) BUILDING NO 3 | = 496.12 SQ.M |
| 5) WORKSHOP (BUILDING NO 4) | = 744.578 SQ.M |
| 6) COMPLETED TO BUILDING NO 3 | = 190.71 SQ.M |
| 7) MAIN COLLEGE BUILDING (BUILDING NO 5) | = 536.787 SQ.M |
| 8) BUILDING NO 6 | = 1801.10 SQ.M |
| TOTAL EXISTING GROUND COVERAGE | = 5935.55 SQ.M |
| PROPOSED GROUND COVERAGE | |
| FOR BUILDING NO 7 | = 546.60 SQ.M |
| FOR BUILDING NO 8 | = 719.70 SQ.M |
| FOR BUILDING NO 9 | = 150.00 SQ.M |
| FOR BUILDING NO 10 | = 830.35 SQ.M |
| TOTAL PROPOSED GROUND COVERAGE | = 2246.65 SQ.M |
| TOTAL GROUND COVERAGE | = 5935.55 + 2246.65 |
| EXISTING + PROPOSED | = 8182.20 SQ.M |

| | |
|------------------------------------|-------------------------|
| NET LAND AREA | = 36382.57 SQ.M |
| PERMISSIBLE GROUND COVERAGE | = 9090.00 SQ.M |
| PROPOSED GROUND COVERAGE | = 8182.20 SQ.M |
| PERMISSIBLE FLOOR AREA | = 27270.00 SQ.M |
| PROPOSED FLOOR AREA | = 24802.853 SQ.M |



SITE PLAN



DATE: 26-12-07

ARCHITECT
HARSHAD RUPAREL