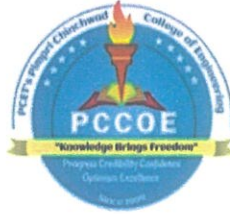


# Pimpri Chinchwad College of Engineering, Nigdi, Pune- 411044



## Strategic Development Plan: Executive Summary

February 2025

### 1. Introduction

Strategic planning is a process that helps organizations define their vision and create a plan to achieve their goals. In strategic planning leaders of the organization define their vision for the future and identify their organization's goals and objectives. The process includes establishing the sequence in which those goals should be realized so the organization can reach its stated vision.

Strategic planning in higher education helps institutions

- Adapt to change
- Maintain their relevance
- Improve the student experience
- Allocate resources in an optimum way

Pimpri Chinchwad Education Trust's (PCET) Pimpri Chinchwad College of Engineering (PCCOE) is one of the renowned and respected brands of Engineering Colleges running B.Tech., M. Tech. and Ph. D Research Programs in Engineering. PCCOE is affiliated to Savitribai Phule Pune University (SPPU). PCCOE's admissions commence as per the Central Admission Process of Govt. of Maharashtra. PCCOE enjoys second or third position in the quality of admissions in Pune. Placement of students at PCCOE has been one of the

strongest reasons for preferring this Institute. PCCOE received Autonomous status from the Academic Year 2020-21.

## 2. Need

PCCOE visualizes being a premier hub in Technical Education at National level. This 'Journey of Excellence' demands restructuring of Academics, Research, Perception, and Infrastructure. In absence of an effective strategic plan, competitors may outperform and push PCCOE towards redundancy. On the back ground of peer organizations trying hard to be at the forefront of the professional race, staying ahead in the competition is the urgent need of the hour. PCCOE must be proficient in its strategy and actions.

Brand of the Institute is usually recognized through its NIRF rank. PCCOE envisions appearing within the 100 NIRF rank in coming 5 years. The strategic plan presented in the following sections describes the road map of development of PCCOE over a span of 5 Academic years i.e. from 2025-26 to 2029-30 with a focus to improve NIRF score from 30 to 45.

## 3. Methodology

A peer performance review is presented first in the report followed by Strength Weakness Opportunities and Challenges (SWOC) Analysis. The strategic plan conceives development of PCCOE in the functions of Infrastructure, Finance, Human-resource, Academics, Research, Innovation & Entrepreneurship, Students placements, Quality Assurance and Peer Perception which are vital performance parameters of a technical Institute. Thrust areas are those where PCCOE needs to exert more for its better performance. Thrust areas are identified as follows.

- Industry Sponsored Laboratories
- Funded Research Projects
- Consultancy Projects
- No. of Ph. D. Faculty
- Investment in Facilities and Overheads
- Percentage of Student Placements and Median Salary
- Peer Perception



Performance in the functions and thrust areas in the last four years is reviewed. On the basis of the previous trends, future targets are planned. The targets are kept realistic and achievable.

#### **4. Infrastructure**

A good Educational Institute is that where good physical infrastructure and appropriate resources conducive to learning are available to all students. PCCOE accommodated in Nigdi Campus is bestowed with a good infrastructure.

Among many buildings in the Nigdi campus, PCET has allocated possession of four buildings to PCCOE vis-à-vis Building No. 5, 6, 9 and 10. Building Nos. 5, 6, 9 have been fully occupied while building No. 10 is partially occupied.

The problem of congestion and crowding in Building No. 6 was brought up on many occasions on appropriate platforms. As a result PCET generously allocated Building No. 11 to PCCOE. PCCOE could address the issue by adding Building No. 11 to its infrastructure. The Institute infrastructure will thus, be augmented by 25% in coming three academic years i.e. 2025-26, 2026-27 and 2027-28. Four out of twelve Departments/Sections are being allocated adequate space in Building No. 11. The shifting exercise assures to reduce the prevalent problem of crowding and congestion to a great extent. Spare area generated in Building No. 6 will be utilized in the capacity building of the Institute.

#### **5. Finance**

Two approaches are contemplated for increasing the financial inflow of PCCOE on sustainable basis. First is enhancement of Tuition Fees through Fee Regulating Authority (FRA) and second increase in intake. Fixation of Tuition-fee is not the authority of the Institute therefore best case scenario cannot be adopted. A pragmatic approach is adopted with anticipated 6% rise in fees. Tuition-fee may increase from Rs. 1.7 Lakhs to 2.14 Lakhs in the plan period.

As regards increase in intake, from the Academic year 2025-26 student-intake will be increased. A growth rate of 7.4 % on sanctioned intake with respect to 2025-26 (4056) is planned. Table E1 Shows branches where increase in student's intake is contemplated.



**Table E1. Increase in student's intake**

Civil Engineering	Increase in Intake form 60 to 120
CSE (AI-ML)	Increase in Intake form 120 to 180
Robotics and Automation	New Intake of 60
VLSI Design Technology	New Intake of 60

With this addition the total intake of the Institute will increase from 4056 to 5136 in the next five years. Estimate of increase in Revenue is shown below in Table E2.

**Table E2. Increase in Revenue**

Academic Year	Tuition Fees	Intake	Additional Quota	Revenue Collection, Rs. In Cr.	Percentage increase
2025-26	170236	4056	4502	73.39	6.2%
2026-27	180450	4356	4835	80.05	9.1%
2027-28	191277	4656	5168	86.96	8.6%
2028-29	202754	4896	5435	93.01	6.9%
2029-30	214919	5136	5701	99.30	6.8%

## 6. Human Resource

Strategic Development Plan pertaining to Human Resource entails following aspects.

1. Improvement of Student-Faculty Ratio (SFR) to 15
2. Acquiring 100% Ph. D. Faculty

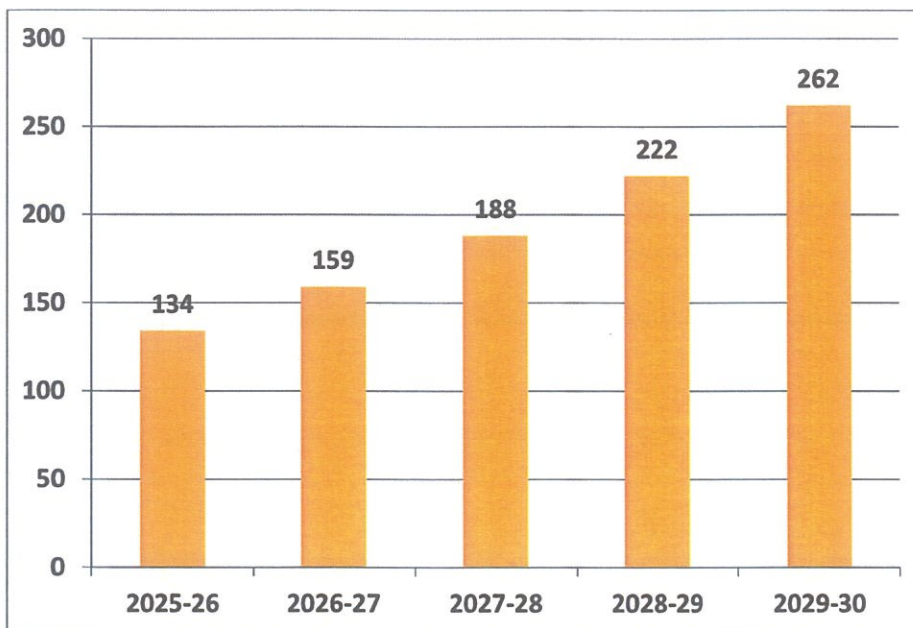
To cater to the increased intake as well as maintain SFR 15, new appointments of faculty members is planned. This is shown in Table E3 with financial repercussions.



Projected growth in next five years in the Ph. D. Completed faculty is shown in Figure E4. In AY 2029-30, total faculty members in PCCOE will be 342. In 2029-30 PCCOE will have 262 Ph. D. Faculty members that will be nearly 77 % as against 49% in 2024-25.

**Table E3. Plan of Faculty Appointments to achieve SFR 15 at PCCOE**

Currently there are 252 Faculty members in PCCOE					
Academic Year	Sanctioned Intake	Total Number of Faculty members needed	New Appointments Needed	Average Salary Rs. Per Month	Additional Salary Budget needed approximately per Year Rs. in Cr.
2025-26	4056	270	18	100,000	2.5
2026-27	4356	290	20	100,000	2.5
2027-28	4656	310	20	100,000	2.5
2028-29	4896	326	16	100,000	2.5
2029-30	5136	342	16	100,000	2.5



**Figure E4. Projection of Number of Faculty members with Ph. D.**



## 7. Academics

As an autonomous institute, PCCOE is committed to adapting to outcome-based education, industry-aligned learning, and sustainable academic growth. This is a structured roadmap to enhance curriculum design, pedagogy, faculty development, student success, and institutional effectiveness. The plan is divided into three phases.

1. Foundation & Implementation
  2. Expansion & Optimization
  3. Excellence & Sustainability
- Over the span of the plan period, total number of credits for undergraduate program and post graduate program will be fixed at 160 and 80 credits respectively
  - The curriculum will have 50 % theory and 50% laboratory content
  - Recommendations of NEP2020 are being implemented from AY 2023-24 and will be implemented in the plan period even. Variety and number of multidisciplinary minors will be improved every year
  - Foundations for Curriculum Design will be Market Demand, Relevance, Contemporariness, Global Level Content, Flexibility and Uniqueness

## 8. Research

PCCOE has a comprehensive Research, Development; Innovation Policy launched in AY 2021-22. Research and Development is one of the thrust areas where PCCOE needs to spare more efforts. Quality Research Publications, Number of Publication in peer reviewed Journals; Consultancy Projects funded by Industry are some areas to emphasize.

Figure E5 shows planned enhancement in the publications per faculty and subsequent rise in the total publications. Table E6 shows total publications with number of publications per faculty member. Total number also indicates publication targets for the corresponding calendar years.

Figure E7 demonstrates 30% planned growth in the sponsored projects. Further estimating a moderate growth of 25 % the planned increase in funded grants is shown in Figure E8. The scenario of consultancy projects needs remarkable efforts and improvement in number and scale. Average consultancy projects over last five years were Rs.2.74 Lakhs.



This value can be treated as a starting point for 2025. Estimating an aggressive growth of 30% the targeted increase in consultancy projects is shown in Figure E9.

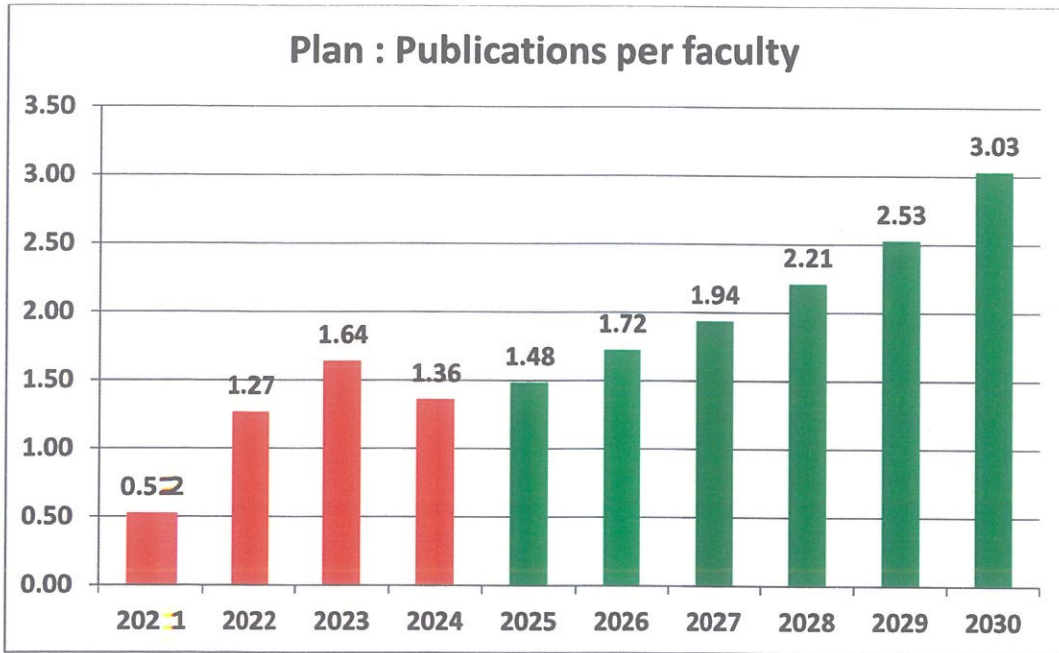
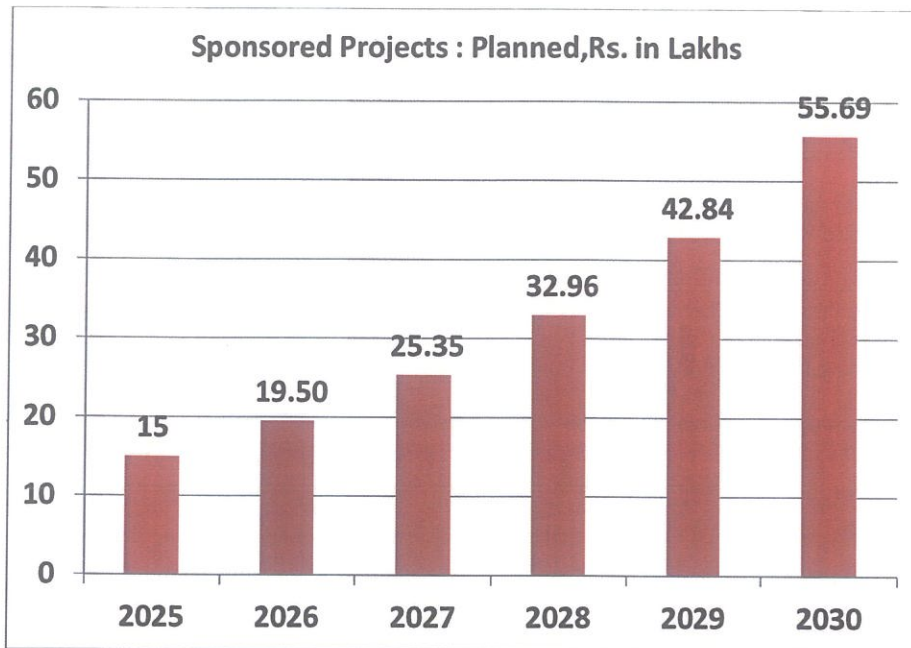


Figure E5. Publications per Faculty of PCCOE plan for next five years

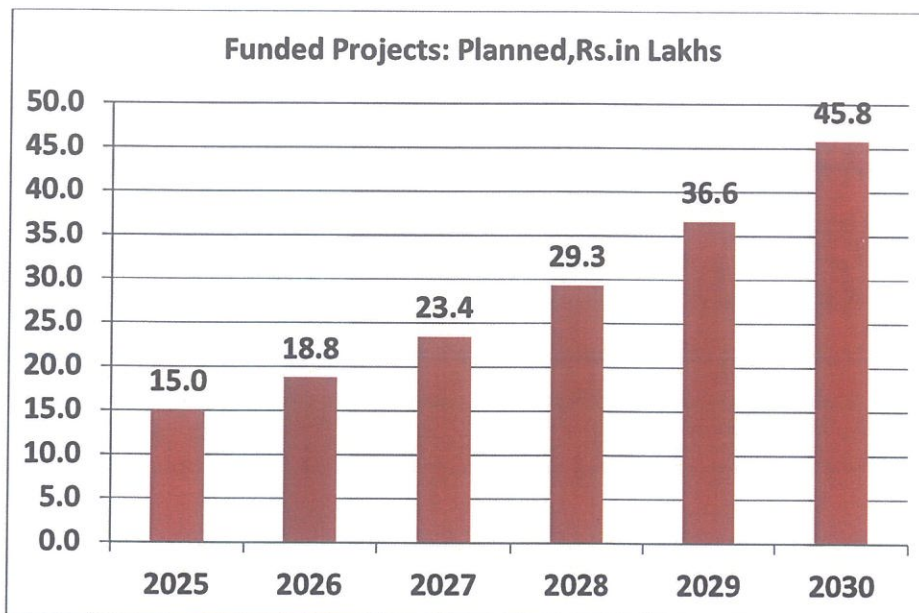
Table E6 Planned Publications per faculty and Publication Targets

Calendar Year	Total Publications Target	Publications Per Faculty member
2025	400	1.48
2026	500	1.72
2027	600	1.94
2028	720	2.21
2029	864	2.53
2030	1037	3.03



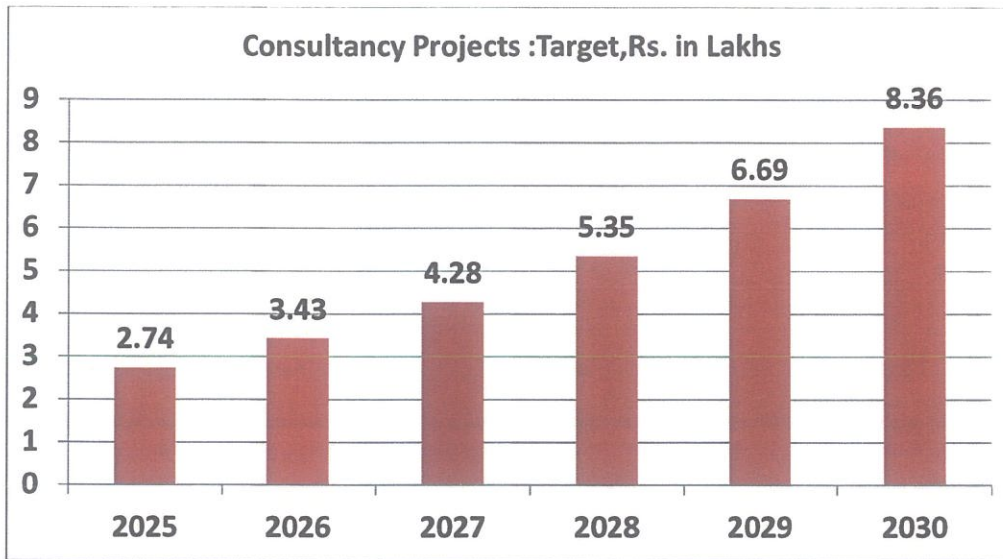


**Figure E7. Growth Intended in Sponsored Projects**



**Figure E8. Planned Scenario of funding in next five years**





**Figure E9. Targeted increase in Consultancy Projects**

To achieve the tough targets a comprehensive action plan is essential. A resolute action plan for nurturing research culture in general and meeting the publication targets in particular has been included in the document.

## 9. Innovation and Entrepreneurship

In AY 2023-24 Institute had a 2-Star rating of Institute Innovation Council of Ministry of Education, Govt. of India. With aggressive planning and implementation PCCOE has jumped to a 4-star rating in AY 2024-25. The strategic plan envisages acquiring a 5-star rating in the coming five years.

The pragmatic growth in number of patents to be published and granted in the next five academic sessions is depicted in Table E10. Commercialization of patents depends on lot of external factors beyond the control of the Institute. For commercialization of patents Patent attorneys have professionally been engaged to search investors or buyers.

Startups from students and faculty need a huge self-motivation. A cordial ecosystem will be created to achieve targets of startups as shown also in the Table E9.

**Table E10. Patent and Startup Performance of PCCOE with Plan**

	Number of Patents Published	No. of Patents Granted	No. of Patents Commercialized	No. of Start-ups registered
2021-22	0	0	0	9
2022-23	15	6	0	1
2023-24	37	7	0	1
2024-25	2	8	0	1
2025-26	13	10	1	1
2026-27	16	13	2	2
2027-28	20	16	2	3
2028-29	25	20	3	4
2029-30	31	25	3	5

**10. Students Placements**

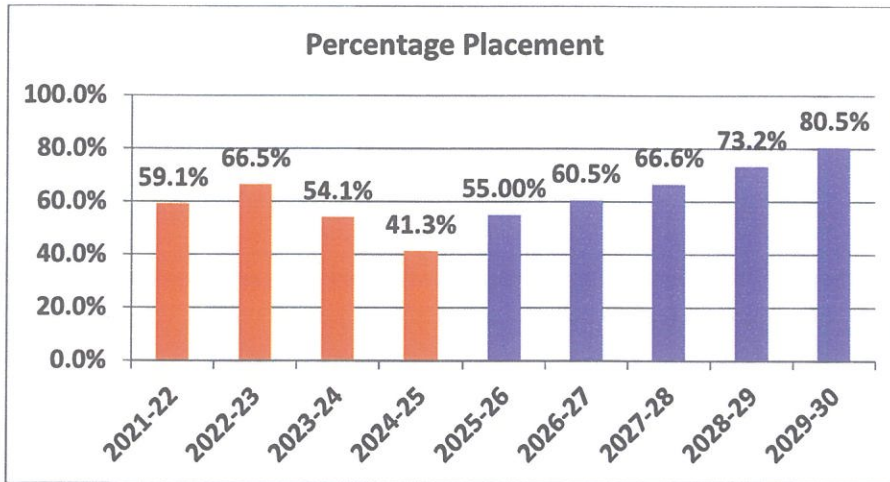
Percentage of student's placed and median salary is one of the major criteria that add to the recognition of the Institute as well as NIRF Rank. PCCOE has launched Platinum Placement Project (PPP) in 2022-23. Under Platinum Placement Project (PPP) bright and interested students from SY, TY and Final Year are identified through a screening test. The students are professionally and rigorously trained for product companies that offer salary packages of 10 Lakhs or more. The aim of PPP is to improve median salary of the students of PCCOE. Table E11 Indicates projected increase in the placement of students through PPP.

**Table E11. Target on Platinum Placement Project**

	2025-26	2026-27	2027-28	2028-29	2029-30
Amount planned to be spent in Platinum Placement Project (Rs. in Lakhs)	6	7	8	9	10
Number of students expected to be placed above 10 Lakhs package	32	60	75	90	105

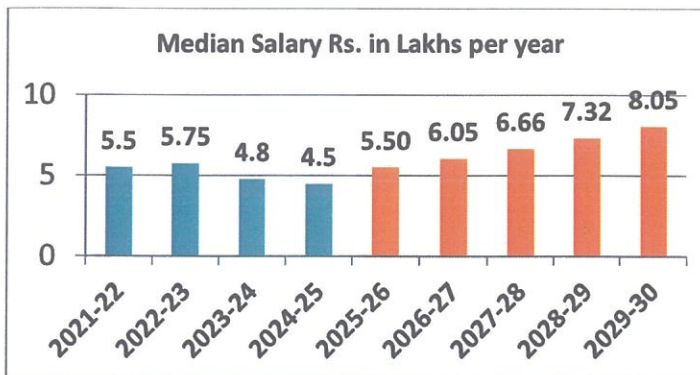


Percentage placement of students of PCCOE in the last 4 years is shown in Figure E12. The average placement over last four years has been 55% anticipating a 10% improvement each year the placement scenario in next five years is also shown in Figure E12.



**Figure E12. Placement Percentage at PCCOE Status and Target**

Median salary of students in last four years was of the order of Rs. 5.5 Lakhs per annum. Foreseeing an increase of 10 % every year the status of median salary and target for next five years is shown in Figure E13.



**Figure E13 Median Salary Rs. In Lakhs per Annum Status and Target**

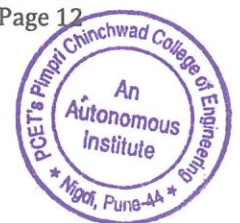
## 11. Quality Assurance

The status and plan of the activities of Quality Assurance Department are mentioned in Table E14. The targets are self-explanatory.



**Table E14. Status and plan of the activities of Quality Assurance**

Sr. No.	Activity	Status	Plan for next Five years
1	ISO -21001-2018	Awarded	Valid till 10 <sup>th</sup> June 2027
2	NBA UG		
	CIVIL	Valid till 30 <sup>th</sup> June 2025	To Seek Accreditation by July 2025
	MECH	Valid till 30 <sup>th</sup> June 2025	To Seek Accreditation by July 2025
	E&TC	Valid till 30 <sup>th</sup> June 2025	To Seek Accreditation by July 2025
	COMP	Valid till 30 <sup>th</sup> June 2025	To Seek Accreditation by July 2025
	COMP (RL)	Eligible in 2027-28	To Seek Accreditation by July 2028
	CSE (AI-ML)	Eligible in 2027-28	To Seek Accreditation by July 2028
	IT	Valid till 30 <sup>th</sup> June 2025	To Seek Accreditation by July 2025
3	NBA PG		
	Construction Management	Valid till 30 <sup>th</sup> June 2028	To Seek Accreditation by July 2028
	Mech- Design	Valid till 30 <sup>th</sup> June 2028	To Seek Accreditation by July 2028
	VLSI & Embedded Systems	Valid till 30 <sup>th</sup> June 2028	To Seek Accreditation by July 2028
	COMP	Valid till 30 <sup>th</sup> June 2028	To Seek Accreditation by July 2028
	IT AI-DS	Eligible in 2027-28	To Seek Accreditation by July 2028
	Mech. Computational Mechanics	Eligible in 2027-28	To Seek Accreditation by July 2028
	MCA	Not Eligible	Become Eligible as early as possible
4	NAAC	Extension till December 2025	To Seek Accreditation for Next Five years
5	NIRF	Rank Beyond 300	To obtain Rank Below 100



## 12. Peer Perception

Perception is the understanding and impression of the institute in the society, at the national as well as international level. Good Institutes are widely known, well recognized at the national level. They obviously have a good perception at the national level.

Good peer perception is attributed to the number of events organized for the purpose of spreading knowledge, societal wellbeing, giving platform to creativity of students Innovation, Students wellbeing etc. Office of the dean International Relations and Office of the Dean Research and Development are playing a major role in building the perception of PCCOE through collaborations and events.

Over a span of next five years, following strategic initiatives will improve PCCOE's perception score, positioning it as a most preferred institution for students, researchers, and global partners.

- 1) Strengthening International Perception
  - Enhance PCCOE's brand through flagship events like IEEE ICCUBEA, i-MACE, "Know Japan", Explore Germany", etc.
- 2) Enhancing Perception through Research & Innovation
  - Improve PCCOE's perception as a research-driven institution by publishing 300+ papers annually in Scopus/Web of Science journals
  - Increase participation in global-funded research projects (e.g., DST-DAAD Indo-German programs, ASIAN Scheme, Indo-French etc).
  - Position IEEE ICCUBEA and i-MACE as a high-impact conference by attracting more international participants, keynote speakers and industry sponsors.
- 3) Improving Perception for National and International Research Internships
  - PCCOE plans to expand global collaborations by signing new MoUs, increasing student internships, facilitating faculty exchanges, and promoting joint research projects with leading universities and industries worldwide.
- 4) Enriching Perception through International Events
  - Scale up Know Japan & Explore Germany events into global fairs featuring industry leaders and university representatives
  - Establish PCCOE as a host for Indo-Japan and Indo-German summits, attracting diplomats, business leaders, and university heads
  - Organize joint conferences and technical workshops with IEEE, INCOSE, RWTH, and UTP, to enhance global perception



- Focus on faculty development & global training programs to attract international collaborations and improve teaching standards
- 5) Leverage social media, PR, and academic marketing to highlight PCCOE's achievements in global research and student success.

### 13. Unpredictable Parameters

PCCOE is committed to implement the strategic development plan earnestly however; its effective and prompt implementation is influenced by certain dynamics beyond the control of the system administration. These aspects may have a disrupting effect on the scale and schedule of the implementation. These factors are perceived as follows

1. Changes in the Policy of PCET
2. Changes in the Policies of the Regulating Bodies such as AICTE, UGC, Govt. of Maharashtra, DTE, FRA, ARA
3. Unforeseen Development in the Market Scenario
4. Force Majeure

  
8.3.25

Director



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