



Pimpri Chinchwad Education Trust's

Pimpri Chinchwad College of Engineering

(An Autonomous Institute affiliated to SPPU and approved by AICTE)



PCCoE is Consistently Ranked among Top Engineering Colleges in India

Agency	All India Ranking	Year
NIRF 2020	197	2020
Times Engineering Survey	21	2020
India Today Survey	80	2020
NIRF 2019	192	2019
Data Quest Survey	7	2019
Times Engineering Survey	25	2019
Outlook Survey	28	2019
India Today Survey	69	2019
NIRF 2018	150-200	2018
Times Engineering Survey	30	2018
Data Quest Survey	3	2018
Outlook Survey	41	2018

Major Recruiters

Each year more than 200 companies visit for Campus Placement



M. Tech Heat Power Engineering

Information Brochure 2020-21

Contact Details for Admission Enquiry

Dr. Anindita Roy : 9970178175

Dr. U.G.Potdar : 9370223675

Mr. N.V. Gaikwad : 9604700437

Email: pccoadmin@gmail.com



Why a PG Course?

A Master's degree adds value to your education. If you're looking to uplift your career prospects after graduation, change track to follow a new career path or make sure you get ahead of the competition in a challenging job market, a postgraduate course can help you achieve your goals. Our programs allow you to gain the skills, knowledge and expertise you need to show up from the crowd

Program Highlights

- Program approved by AICTE and affiliated to SPPU
- Paid Industrial Internships
- Mentorship by Industry Experts
- GATE scholarship to eligible students
- Training in Emerging fields
 - CFD: Ansys Fluent
 - Battery Technology
 - Green building
- Have an idea? We help you start-up
- Opportunities for International Paper Presentation
- Shift your career into research
- Aptitude training for placement



Program Overview

The Master's program in Heat Power Engineering prepares its graduates to develop critical thinking and acquire competence to evaluate a wide range of potential solutions for engineering problems. The program prepares you with entrepreneurial aptitude to take your idea to the marketplace. We believe in providing state of the art teaching-learning environment which will inspire students to get an education beyond engineering. This is achieved through rigorous teaching process integrated with innovation and research.

Research Domains

- ✚ Computational Fluid Dynamics
- ✚ Electric Vehicle Battery Technology
- ✚ Experimental and Numerical Combustion
- ✚ Renewable Energy: Solar & Wind Energy
- ✚ Heat Transfer
- ✚ Refrigeration and Air-Conditioning and HVAC

Features of New M.Tech Curriculum

- ✚ Dedicated year for Project Work and Internship
- ✚ Curriculum designed to accommodate recent trends
- ✚ Clustering of electives leading to specialization in
 - Refrigeration and Air conditioning
 - Energy Systems
 - Combustion
 - Energy Storage Technology
- ✚ Lab courses leading to skill development and hands-on training
- ✚ Mini Projects to promote Activity / Project based learning
- ✚ Industrial Internship, Industry oriented courses, Certification Courses embedded in curriculum
- ✚ NPTEL /MOOC/Edx course provision

M. Tech Structure

S. No.	Course	Credits/Semester				Credits
		I	II	III	IV	
	SEMESTER →	I	II	III	IV	Credits
1	Research Methodology-IPR	3	-	-		3
2	Program Core -I	6	6	-		12
3	Program Elective-	6	6	-		12
4	Proficiency Lab	2	2			4
5	Mini Project		3			3
6	Open Elective	2	2			4
7	Dissertation			10	12	22
8	Skill Development Lab	1	1			2
9	Internship			2		2
10	MooC courses				2	2
11	Seminar			2		2
12	Audit course	-		-		
	Total	20	20	14	14	68

Industrial Collaborations

Forbes Marshall Pvt.Ltd.

TIFAC, DST, Govt of India

Mantra CAD/CAM Solutions Pune

ACR Consultants Pvt Ltd

ISHRAE Pune chapter

Customized Energy Solutions

SKF India

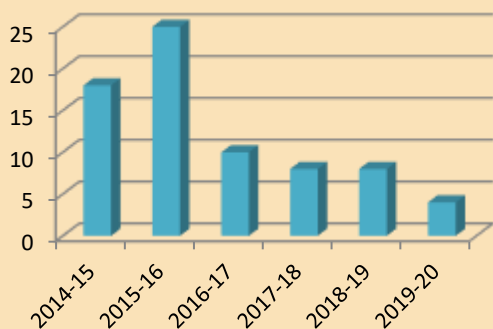
Industry faculty

✚ Mr Rajarshi Sen, Customized Energy Solutions

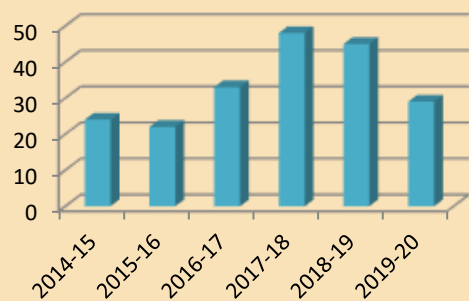
✚ Mr. Raghu Nair, Consultant, Forbes Marshall

✚ Mr. Akshay Pahade, ECBC Expert, Grattitude

Svenergy IIP



Patents and Copyrights applied by Faculty and students



Research publications by faculty in International journals & conferences

Faculty Strength

PhD Faculty

Professors

Asso. Professors

Asst. Professor

06

03

03

08

Research funding received by faculty

Sr. No.	Name of the Investigator	Title of Research Project/Scheme	Funding agency	Amount Sanctioned, Rs
1	Dr. N.R. Deore	Experimental studies on propagation of premixed flame in diverging meso-scale channels	BCUD S.P. Pune University	1,40,000
2	Dr. C.L. Ladekar	Experimental investigation for enhancing of latent heat energy storage using embedded heat pipe	BCUD S.P. Pune University	1,90,000
3	Dr. U G Potdar	Experimental investigation on lifted spray flame	BCUD S.P. Pune University	85,000
3	Prof. S.P. Salve	Design and development of low-cost solar air dryer using phase change material	S.P. Pune University BCUD	1,40,000
4	Dr. Anindita Roy	Installation of 25 kWp Rooftop Solar PV system	BCUD QIP Grants	5,00,000
5	Dr. Anindita Roy	Development of Solar Passenger Vehicle	Dassault Systemes Foundation	4,30,000
6	Prof. A N Kore	Design and Development of Open Pan Heat Exchanger based on thermic fluid for organic jaggery making	Dassault Systemes Foundation	2,10,000
7	Prof. Nilesh Gaikwad	Design and Development of an Evaporative cooling attachment for conventional ceiling fan.	ISHRAE	30,000
8	Prof. N A Mandhare	Minimization of Flow Instabilities over Impeller Eye of low head mixed flow centrifugal pump through design modification of locknut	S.P. Pune University ASPIRE	3,00,000
9	Dr G V. Parishwad	The investigation of improvement in thermal performance of phase change material by incorporating graphene nanoparticles in refrigeration application.	ISHRAE	1,00,000
			Total	20,95,000

Faculty Citations

Sr. No.	Name of faculty	No. of citations
1	Dr. Anindita Roy	282
2	Dr. G.V. Parishwad	254
3	Prof. G.G. Momin	99
4	Dr. P.A. Deshmukh	75
5	Prof. S.P. Salve	64
6	Dr. S.S. Lakade	34
7	Dr. C.L. Ladekar	21
8	Dr. N.R. Deore	14
9	Dr. U.G. Potdar	14





Workshops Conducted

- Five days Webinar series on '**Building Energy Systems & Recent Trends in HVAC**', June 2020.
- Five days Webinar series on '**Solar Energy: Challenges & Opportunities**', June 2020.
- Two Days Hands on Training Workshop on **Li-Ion and Lead Acid Battery Operation and Maintenance**, March 2018
- Expert talk on **Air-Conditioning codes and Design Standards** on April, 2018
- Workshop on **Biomass and Bio Energy**, December 2017
- Expert session on "**Application Engineering of Rooftop Solar Power Plant**" by Mr. Sachin Rele , November 2017



Industrial Visits

- Solar cooking system, Shirdi Sai temple
- Air Conditioning Plant of Deenanath Mangeshkar Hospital, Pune
- 55 kW Solar Power plant, NCL Pashan, Pune
- PV Module Manufacturing Photonix Solar, Wai,
- Evaporative Cooling at A.T.E Enterprises Private Limited, Bhosari, Pune
- Mahindra Powertrain, Chakan, Pune.
- Shell n Tube Ltd, Wai.
- Wind farm, Suzlon Energy Ltd, Supe, Ahmednagar
- Solar Cooking system, Punaruththan Samarasata Gurukulam, Pune.
- HNB Engineers, Water treatment center, Pune.
- Vigyan Ashram, Pabal, Pune

Labs and Facilities

Academic Labs

17

Industry Sponsored Labs

04

Supporting Labs

03

Centralized Labs

02

Industry Sponsored Labs



Robotics & Automation



Metrology & Quality Control



Product Innovation Lab



Solar & Battery Testing Lab

Research Facilities

- Computational Lab with ANSYS 19 Research Licenses
- Solar and Battery Testing
- Wind speed and Solar Radiation Monitoring facility
- Wind Tunnel
- Mini Power Plant
- Variable compression Diesel Engine Test Rig

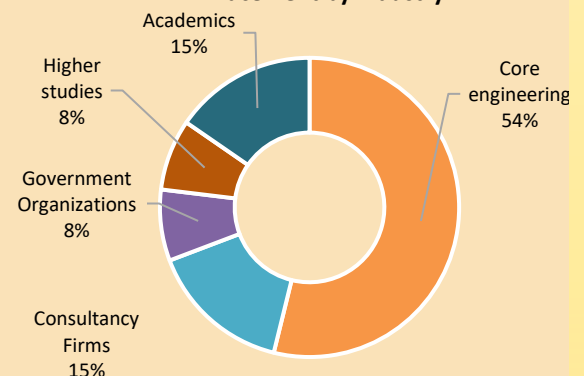


PG Computational Lab

Recent Placements

Cummins India Ltd
 Knorr Bremse Pvt Ltd
 CAE equilibrium Solutions
 Cool Breeze Pvt Ltd
 Chhabi Electricals Pvt Ltd
 Gratitude Synergy Pvt Ltd

Placement by Industry



USPs of M.Tech @PCCoE

- ✦ Doctoral faculty with rich domain knowledge and experience
- ✦ Sponsorship for distinguished New Product Development / Research Based Projects.
- ✦ Paid Industrial Internships leading to placement
- ✦ GATE scholarship to eligible students
- ✦ Support to Start-ups through ATAL Incubation Cell
- ✦ Computational lab availability for 24 hours
- ✦ Aptitude sessions for cracking placement interviews
- ✦ Chance to work on Interdisciplinary/Innovative /Industry sponsored projects.
- ✦ Exposure to Add-on courses by Industry Experts

University Toppers



Patil Rupali
Rank 01
(2012-2014)



Pise Gargee
Rank 01
(2013-2015)



Birendra Kumar Rajan
Rank 01
(2014-2016)



Patil Sunil
Rank 03
(2015-2017)



Patil Atul
Rank 06
(2015-2017)



Badadal Prathamesh
Rank 10
(2015-2017)

Distinguished Alumni Speak



PCCoE has provided me the best of education throughout my PG course. Faculties are dedicated to the improvement of the quality of the students which is quite lacking in many institutes. I had the most memorable days in my life which I will cherish forever".

Ved Mukherjee, PhD Research Scholar, IIT Bombay



ME Heat power course has brought excellent development in my personal profile. I have built in various skills due to personal attention of my teachers and encouraging environment.

Sumedha Mohod, Cummins India, Pune



PCCOE is one of the best engineering colleges in Maharashtra. I would rate this college next to IITs. Faculty: The professors here have expertise and are proficient in their field. They make sure that every student has understood the subject. Professors here do not believe on spoon-feeding; on the contrary they believe in generating thirst for knowledge.

Shantanu Kale , Dy Manager, Sonalika International Tractors Ltd

Pimpri Chinchwad College of Engineering

Sector-26, Near Akurdi Railway Station
Road, Pradhikaran, Nigdi, Pimpri-Chinchwad,
Maharashtra 411044

Dr. Anindita Roy : 9970178175
Dr. U.G.Potdar : 9370223675
Mr. N.V. Gaikwad : 9604700437
Email: pccoadmin@gmail.com

