

PIMPRI CHINCHWAD EDUCATION TRUST'S

# Pimpri Chinchwad College of Engineering



## *M.E. Heat Power Engineering Information Brochure 2018-19*

Contact Details for Admission Enquiry:

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## About M.E. Heat Power Engineering

**Mechanical Engineering Department** offers Postgraduate course M.E. in Heat Power Engineering and Design Engineering affiliated to University of Pune. This course has been started in the academic year 2012-13. The department of Mechanical Engineering is committed to provide value added quality education to post graduate students through its M.E. courses in Heat Power & Design Engineering. Leadership and teamwork are persuaded for the ethical & professional attitude towards society.

M.E. program is highly structured to cater the need of the industry to take on the technical challenges posed in twenty first century. The courses are modular in approach with classroom lectures, assignments and individual projects, aimed at

creating leaders capable of handling the industry design projects. The objective is to consolidate the basic and advanced knowledge of heat power engineering necessary for the development of the Engineer.

### Major Strengths

Value Based Education

Focused Academics

Well Qualified & Expert Faculty

Research & Development

Training & Placement

Internship

Consultancy/Sponsored Projects

Student Development Activities

Excellent Results

### Best Practices

- ✦ Effective course delivery with 100 % coverage
- ✦ Distinguish technical contribution by the students through in-sem activities
- ✦ Care & concern for students through regular counseling
- ✦ Carrier opportunities through Industry Institute Interaction
- ✦ Research guidance by promoting various R&D activities
- ✦ Systematic review process for ensuring research work through semi-seminar & projects
- ✦ Involvement of industry experts for content delivery through expert talks, workshops etc.

### Research Domains

- ✦ Computational Fluid Dynamics
- ✦ Experimental and Numerical Combustion
- ✦ Renewable Energy: Solar & Wind Energy
- ✦ Heat Transfer
- ✦ Refrigeration and Air-Conditioning and HVAC

## Our Recruiters

Tata Motor  
Cummins India  
Eicher Tractors  
Urja Disha Boiler Technologies  
CAE Engineer Equilibrium Sol. Pvt. Ltd  
Uttam Energy Limited  
Mercedez Benz Pvt Ltd  
Bharat Forge  
Gram Oorja Pvt Ltd  
Dhanprakash Industrial Corporation  
UGC Supply chain Pvt Ltd  
Mahale Behr India Pvt Ltd

## Internship Opportunities

Cummins India  
SKF India  
Thermax India Ltd  
MAHLE Behr  
3DPLM Technology Solutions  
Urja Disha Boiler Tech  
TIFAC , DST, Govt of India

## 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



## Academics

The PG course in Pimpri Chinchwad College of Engineering follows the curriculum/syllabus designed by the University of Pune. The college has initiated structured academic program since 2012, by introducing innovative assignments and research projects for the students as well as faculties. The department is committed for overall development of the PG students, so that students can grow academically as well as research wise. In the two years duration of the course, students are prepared to cater the needs of the industry and focused to many opportunities like industrial training, sponsored research projects, project internship, industry visits, expert sessions by industry peoples, participation in conferences and research publications etc.

## RESEARCH PUBLICATIONS

Publications	2012-14	2013-15	2014-16	2015-17	2017-2018
International Journals	13	07	7	11	3
Int. Conference	08	03	5	05	3

## RESEARCH LAB AND FACILITIES

- Thermal Engineering
- Solar and Battery Testing
- Fluid Mechanics
- Refrigeration and Air Conditioning
- Wind speed and Solar Radiation Monitoring facility
- PG Research Lab
- Wind Tunnel





## Infrastructure & Facilities

24 h availability of computational lab

Online subscriptions of IEEE, Science Direct, Well-equipped class rooms with all teaching aids

Digital Library - NPTEL videos for teaching & learning

Central Library enriched with all required books along with Journals

## Scope of Employment

Design engineer in Engine Design & Development

Research & Development Engineer in Automotive Industry

Project Engineer in Solar Photovoltaic Industry

Refrigeration and air conditioning project engineer

Energy auditor/manager

Academic and R&D institutions



## Workshops/Trainings

- ✚ Two Days Hands on Training Workshop on Li-Ion and Lead Acid Battery Operation and Maintenance , March 2018
- ✚ Workshop on Biomass and Bio Energy from , December 2017
- ✚ Expert talk on Air-Conditioning codes and Design Standards on April, 2018
- ✚ Expert session on “Application Engineering of Rooftop Solar Power Plant by Mr. Sachin Rele on 9<sup>th</sup> November 2017
- ✚ Guest lecture on Process Equipment Design by Mr.Milind Ramgiri on 5<sup>th</sup> October 2017
- ✚ Three days’ workshop on Industrial practices in Refrigeration and air conditioning, 1<sup>st</sup> to 3<sup>rd</sup> of June, 2017
- ✚ Entrepreneurship Development Programme in Solar Energy, April 2017
- ✚ Expert talk on “Energy Scenario” by Dr. N K Sane February, 2016
- ✚ Expert talk on “Aircraft Design” by Mr. Abhishekh Khare March, 2016
- ✚ Mini-Project Exhibition on use of wind and solar power, 6th Nov. 2015
- ✚ Two days CEP on Solar Energy Conversion, March 2015.
- ✚ Guest lecture on ‘Waste heat recovery’ by Mr. Sangamnerkar, Urja Disha Technologies, 14/07/2015.
- ✚ Expert talk on Solar Thermal Technology for Process Heat, Aug, 2014.
- ✚ Three days National level workshop on Computational Fluid Dynamics (CFD), Oct, 2013.

## Industrial Visits

- ✚ Solar cooking system, Shirdi Sai temple
- ✚ 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
- ✚ Visit to Photonix Solar, Wai,
- ✚ Deenanath Mangeshkar Hospital, Pune
- ✚ A.T.E Enterprises Private Limited, Bhosari, Pune
- ✚ Industrial Visit to 55 kW Solar Power plant, NCL Pashan, Pune

## Awards and Accolades

- ✚ PCCoE stood at 52nd position in Top 100 Engineering Institutes Ranking and at 31st position in Top 50 Private Engineering Institute of Times Ranking Survey 2017
- ✚ PCCoE Ranked 45th in INDIA in India Today Magazine Engineering College Rankings-2018
- ✚ PCCoE is Honored with Engineering Education Excellence Award 2015 by Indo Global Chamber of Commerce Industries and Agriculture
- ✚ Pimpri Chinchwad College of Engineering achieves ISO 9001:2015 Certification for Quality Management Systems
- ✚ PCCoE is awarded as "OUTSTANDING ENGINEERING INSTITUTE - WEST INDIA" By Lokmat National Education Leadership Awards - 2015
- ✚ Honored with 'college of substance' award by Natarajan education Society
- ✚ Best College Award" by Board of Student Welfare, Savitribai Phule Pune University

## What our students say...

*"My two years in PCCOE were transformative. PCCOE has opened my eyes to the limitless educational possibilities and helped me to build a winning attitude."*

Gargee Pise, Cummins India Ltd.

*"I have spent 2 years in this institute and I can say that these were the most fruitful years of my carrier. Here we can explore our ideas and bring them to innovation with the help of facilities like Research Laboratories, Innovation Centre. It has improved my technical as well as managerial skills and helped me to get placed in MNC."*

Nikhil Ingle, Urja Disha Boiler Technologies

*"I will treasure the memories of my time in P.C.C.O.E forever. I am graced with most helping teachers who have transformed my mind towards research and developed never say die attitude"*

Shruti Dhone, Cummins India Ltd.

*"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, Sr Research Fellow, IIT Bombay



## Pimpri Chinchwad College of Engineering

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

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