MAEER's

MIT PUNE

यंत्र-तंत्रादि
विज्ञानम्
लोक कल्याण
साधनम्

FACULTY OF ENGINEERING

MAHARASHTRA ACADEMY OF
ENGINEERING & EDUCATIONAL RESEARCH'S
FACULTY OF ENGINEERING

MIT

- MAHARASHTRA INSTITUTE OF TECHNOLOGY, PUNE
- MIT COLLEGE OF ENGINEERING, PUNE
- MIT ACADEMY OF ENGINEERING, PUNE

MAEER was founded in 1983 with the aim to provide quality professional education in the field of Engineering and Technology to the students. Today, after the passage of over three decades and after establishing three institutes exclusively dedicated to engineering education, MAEER has helped more than Thirty Thousand engineering graduates realize their academic dreams.

The ready acceptance of MAEER graduates in the best companies not just in India, but all over the world, is the result of the excellent all-round education provided to students by competent, dedicated and experienced faculty and the emphasis on not just the academic, but also the spiritual development of the individual.

We are not satisfied with present achievements but we aim to educate more and more graduates with winning personalities, ready to face the professional challenges, keeping the flag of MAEER Engineering Faculty flying high!

MAEER's MIT Group was established with an aim of meeting the need for a unique centre for scientific and educational research and engineering training. The Group went on to become a pioneer in the field of self financed higher education in Maharashtra. Along with imparting excellent higher education, MAEER also promotes a unique blend of science and spirituality which has been its hallmark.

Today, MAEER has 63 institutions under its umbrella delivering distinctive education from KG-PG to more than 50,000 students at any given point of time. This multi-campus, multi-disciplinary venerated institute weaves a mosaic of integrity, commitment, and dedication in imparting excellence in education. Through our journey of over quarter of a century we have contributed to the industrial and economic growth of our society, our nation and the entire world by helping millions of students to realize their dreams and aspirations.

VISION

"Union of science and religion/spirituality alone will bring harmony and peace to the humanity."

Swami Vivekanand

MISSION

"To harness the knowledge of science and technology for the welfare of the society."

MAEER's MIT Group of Institutions Arena of Educational Activities

ENGINEERING

HEALTH SCIENCES

BUSINESS STUDIES

ARTS, SCIENCE AND COMMERCE

MARINE ENGINEERING

DESIGN INSTITUTE

VISHWASHANTI GURUKUL IB SCHOOL

SCHOOL & JR. COLLEGES

TELECOM MANAGEMENT

CONTINUING EDUCATION

TEACHERS TRAINING (B.Ed, D.Ed, etc.)

FOREIGN LANGUAGES

Campus Expanse

• Paud Road, Pune • Alandi, Pune • Talegaon, Pune
• Rajbaug, Loni-Kalbhor, Pune • Mumbai
• Ambejogai • Barshi • Solapur • Latur • Aurangnbad
• Nanded • Indore • Pandharpur

All of MAEER'S campuses are well-designed with a special emphasis on a green environment. A lot of thought has gone into creating a stimulating environment in our campuses for study and research. The campuses are well-equipped with good infrastructure and world-standard hostels (separate for boys and girls). All campuses have access to internet.

MIT, Pune

MITCOE, Pune

MITAOE, Alandi

Contents

Foreword

Welcome to MAEER's Engineering Faculty; i.e to a bright and prosperous future. By joining one of the Engineering Institutes under MAEER you have made a very wise decision. Studying in our engineering colleges will be an enriching experience, and you will have an opportunities galore in an environment that is highly conducive for learning. The institutes provide the latest state-of-art infrastructural facilities by way of smart class-rooms, library, laboratories, equipment, machinery, computers, software, Internet center and so on. It is for you to take the right advantage of all these facilities and carve out a career; here sky is the limit for you.

At MAEER's MIT, Pune, we believe that value-based quality education is the key to success. MIT offers such education with the professional career of the prospective budding engineer in mind. MIT students find ready acceptance in higher education and professional careers, in India and abroad.

The MIT engineering colleges have close interaction with the industry, which provides you with exposure to the professional fields. This includes visits to the industries and construction sites, lectures of experts from the field, industry sponsored projects, in-plant training, and so on. Student seminars and paper presentation competitions conducted annually by various departments offer the students a chance to develop their technical ability, logic and presentation skills. At the first year level, apart from the usual subjects as per the syllabus, special coaching is given in communication skills and human dynamics. All the institutes have well established training and placement cells, which provide on-campus facilities of recruitment.

An important aspect of MAEER's Institutes is discipline. The institutes insist and enforce a high level of attendance. The students are required to wear the prescribed college uniform for two days in a week and on the other days, decent dress code is prescribed. Smoking is totally prohibited on the campus and the students are induced to follow it even outside the campus. Strict discipline, which helps the students to become responsible citizens, is enforced throughout their stay. Those who feel discipline is a punishment need not join any of the MAEER's Institutes.

All the sports facilities including gyms with the latest equipment are available on the campus. The students of our institutes have been able to perform extremely well in various sports and games at the University, State and National level. The institutes also encourage the students to participate in cultural activities, including elocution/debating competitions. All these activities help in building the personality of a student and be one-up in his future pursuits.

Founder's Message

MAEER aims to provide the finest environment for learning, teaching, research, innovation and character building.

MAEER's MIT, Pune, India has been constantly engaged in inspiring and motivating thousands of students to develop their “Winning Personalities” by making them 'Physically Strong, Mentally Alert, Intellectually Sharp and Spiritually Elevated.'

The Management of the Institute believes in Swami Vivekananda's assertion that "Union of Science and Religion/ Spirituality alone will bring peace and harmony to the entire mankind". MAEER has taken several measures at various levels to put this into practice.

MAEER, Pune has a good fortune of having eminent scientists, engineers, technologists and professionals as advisors. They include Dr. R. A. Mashelkar, Dr. Vijay P. Bhatkar and others.

In keeping with the Vision and Mission of MAEER, the various institutes under it are able to take long strides. The journey is a continuous one, with students joining the caravan and parting with it after accomplishing their goals. You will also join the caravan and leave your foot-prints for the posterity to remember you as an MITian who is making a mark in the world.

With best wishes!

Prof. Dr. Vishwanath D. Karad
Founder, Executive President & Managing Trustee,
Maharashtra Academy of Engineering and Educational Research (MAEER), Pune, India.

From the President's Desk

From the introduction of new academic programs to re-structuring the current ones, from improving infrastructure to upgrading teaching skills, student's welfare has always been the focal point in MIT's larger picture.

Welcome to MAEER family. In the span of more than three decades, MIT Institutes has been engaged in nurturing minds through rich heritage of academic excellence. Essentially a hub of bustling student activities, beautiful campus has been a second home to thousands of students in their journey to challenge the times.

MAEER Campus is spread at different locations in India and houses several Institutes offering education in varied fields from Pre-Primary Schooling to Post Graduate education. Along with infrastructure of international standards, an ultra modern e-campus keeps you in pace with the happenings around the world.

Keeping up with the times has never been enough at MIT Institutes, as it has mostly been either at the top of ranking surveys or the first among initiators of path breaking ideas. From the introduction of new academic programs to re-structuring the current ones, from improving infrastructure to upgrading teaching skills, student's welfare has always been the focal point in MIT's larger picture. As a result, the Institute enjoys an unsurpassed reputation in academia and corporate circles being the preferred manpower source for many industries not only in India but also abroad.

Now, that you wish to be a part of this ever growing family, I am sure that you will find this a right place to pursue your career. Wish you best of luck for your future.

Dr. Suresh Ghaisas
President, MAEER, Pune

Message from the Founder, Joint Managing Trustee, MAEER

Our infrastructure facilities are excellent and we have dedicated excellent faculty members who inspire students to build wining personality.

Engineering education in Maharashtra state got boost in the year 1983 when Chief Minister of Maharashtra state Hon. Shri. Vasantdada Patil gave permission to start unaided technical institutions.

During more than last three decades engineering education has registered a horizontal growth with large number of technical institutions across the state.

Now, what engineering education needs is the vertical growth by creating centers of excellence in different disciplines of Engineering.

Maharashtra Institute of Technology has taken an initiative in this regards by starting post graduate courses in all faculties and establishing Ph. D. centers in few departments.

Our infrastructure facilities are excellent and we have dedicated excellent faculty members who inspire students to build wining personality.

We conduct courses in soft skills which increases employability of the students who pass out.

At MIT, we emphasize on all-round development of students. Every effort is made to create a lateral thinking approach amongst the students.

Prof. Prakash Joshi
Founder, Joint Managing Trustee, MAEER

Boards and Bodies

Board of Trustees

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  Member

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- **Padmashree Dr. Vijay Bhatkar**
  Eminent Scientist
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  Member, Industrialist
- **Prof. H. M. Ganesh Rao**
  Member, Ex. Principal, Govt. College of Engineering, Pune
- **Prof. Dr. Vishwanath D. Karad**
  Executive President and Director General, MAEER'S MIT, Pune

Institute with global perspective...

MAEER's MIT, Institutes are pioneer in the field of international education as first in the state of Maharashtra to admit foreign national students. We not only promote the Indian education system among the students of foreign nations that gives them professional exposure world over but also promote unique blend of science and spirituality among these students.

MAEER's MIT Institutes are working to usher in the glorious days of the Indian education. We are emerging as magnates of the academic excellence, capable of attracting finest students from across the globe and best global universities as collaborators.

Infrastructure that Meets World Standards

Highlights

- Excellent infrastructure with quality learning environment.
- Highly qualified and competent teaching faculty having research orientation.
- Systematic teaching and periodic assessment Active participation of students in technical festivals/conferences/competitions such as ROBOCON and other national & international events.
- Long-term relationships/collaborations/MOUs with several global companies to ensure industry exposure for students.
- Over 300 companies participate in campus placement every year and more than 80% of the students are recruited before they start their final year of engineering.

Admission Procedure

How to apply

Candidates are advised to follow the rules for admission to First Year Engineering and direct admission to Second Year Engineering degree courses as published by the Directorate of Technical Education, Maharashtra State from time to time. All the candidates are advised to submit their applications to the Admission Authorities notified by the Government of Maharashtra on or before the last date of application, unless specified differently elsewhere in this brochure.

Entry requirement for the First Year of Engineering

Passed the HSC (Std. XII) examination of Maharashtra State Board of Secondary and Higher Secondary Education or its equivalent examination with subjects English, Physics, Chemistry and Mathematics and secured minimum 50% marks i.e. not less than 150 marks out of 300 marks (45% marks i.e. not less than 135 marks out of 300 marks for backward class category candidates from Maharashtra) in the Subjects Physics, Chemistry and Mathematics added together.

OR

A candidate who have passed the diploma course in Engineering / Technology affiliated to Board of Technical Education, Maharashtra State (MSBTE) or its equivalent with minimum 50% marks.

Eligibility Criteria

For details refer Government of Maharashtra (DTE) website: www.dte.org.in

a) For the candidate of Maharashtra State

In addition to Educational Qualification as specified in the Para "Entry Requirement", candidates are required to appear for JEE (Mains)h and secured nonzero score to be eligible for admission for State Quota (65%) seats through Centralized Admission Process (CAP).

b) For the candidates of Outside Maharashtra State

In addition to Educational Qualification as specified in the para "Entry Requirement", candidates from Maharashtra State as well as outside Maharashtra State are required to appear & qualify in JEE (Mains) conducted by C.B.S.E., New Delhi to be eligible for admission against these (15%) reserved seats.

c) For the candidates wishing admission under Institute level seats

Candidates from Maharashtra State as well as from outside Maharashtra State having Educational Qualification as specified in the Para "Entry Requirement" are eligible for Institute level (20%) seats provided they have appeared for JEE (Mains) conducted by the competent Authority However, they are required to apply separately to the Management of the respective institutes for these seats.

d) For the Diploma holder candidates

If the vacancies still exists after the cut of date declared by the concerned Government authority, the Principal may admit diploma holders who have passed the diploma course in Engineering/Technology with minimum of 50% marks and medium of instruction as English from Polytechnics affiliated to MSBTE or AICTE approved autonomous Polytechnics in Maharashtra State (for Maharashtra State Candidates) or such polytechnics situated in or outside the MH State (for outside Maharashtra State Candidates).

Rules for transfer of students at second year and onwards

Transfer whether within the Institute or to another will be effected only in case of students passing fully in the previous year/semester.

Change of branch within the College/Institute

The Principal of the college shall allow change of course within the college immediately after the declaration of result of first year or second semester examination on merit to the eligible candidates who have passed first year. Provided, vacancies exist within the sanctioned intake. The Principal shall be responsible for ascertaining the eligibility laid down by concerned University for the course to which the candidate is being transferred.

Tuition fees

The fees structure of the college will be as per the approval by the Shikshan Shulk Samittee.

MIT Maharashtra Institute of Technology

From Dean's Desk

"Superficial examination oriented preparation will never give adequate self-confidence to the student in fulfilling expectations of the business world. Therefore, more emphasis is given to motivate the student to go deep into the academic curriculum, enjoy the beauty of innovations & derivations and while doing so, prepare his / her analytical mind-set, resulting into creativity–the soul of Engineering Technology."

Welcome to MAEER's MIT Pune, an altogether unique World of Academic Excellence in Engineering Education and Research. At MIT Pune, you will be delighted to have an opportunity to study in one of the best rated Institutes, where a very high standard of teaching by renowned faculty, coupled with state of the art laboratory and infrastructure facilities, will ensure that the student gets the right blend of Theoretical and Practical knowledge, so much essential in facing today's professional challenges.

The marvelous academic environment offered by MIT's e-Campus, known for its high level of discipline, along with second to none Cultural and Sports activities, will enable the student to transform himself / herself into a winning personality, capable of taking - on the challenges of the world very successfully. In the present scenario, where students have to face rough and tough competition, they need to show their edge over others, to be successful.

Naturally, superficial examination oriented preparation will never give adequate self-confidence to the student in fulfilling expectations of the business world. Therefore, more emphasis is given to motivate the student to go deep into the academic curriculum, enjoy the beauty of innovations & derivations and while doing so, prepare his / her analytical mind set, resulting into creativity - the soul of Engineering Technology. In order to ensure the above, teaching & continuous assessment with frequent, periodical and systematic assessment are the only tools to increase student's potential and endurance capacity. Accordingly, measures are taken to keep the students engaged throughout the course right from day one, in a very studious environment and extract maximum amount of work from them and not giving them a chance to deviate their concentration away from their studies. University examination pattern is also getting inclined towards on-line system and we have geared up our-selves accordingly.

As we know, while University syllabus is revised only periodically, the Technology is developing rapidly. This gives rise to widening of gap between the two. To minimize this, long- term association & continuous interaction with the Industry in the form of MoUs / Collaborations, is the only solution. Realizing this aspect, MIT, Pune has signed more than 29 MoUs with top Foreign Companies / MNCs (glimpses overleaf) by which, the students and faculty get closely associated with the Industry and also get constantly up-dated with the latest Technologies. These various add-on inputs enhances their Technical competence and student's employability.

As a result of our sincere and well planned efforts, some of our programs have been accredited by NBA and the remaining are in the process. Moreover, we are rated as No:1 among the top Private Engineering Colleges by the media.

Our Placement records are one of the highest and the Industry considers our graduates as assets to them. All these excellent facilities and opportunities are awaiting the students of this great Institute.

I wish the very best in all your future plans.

Prof. Sharadchandra Darade (Patil)
Dean, MIT Group of Institutions, Pune

We are out-standing.....

MoUs/Collaborations

MoUs/Collaborations/the long-term association with the Industries has vital importance in the development of Professional Institutes.
Blending of the latest and best industrial practices with the theoretical knowledge will produce perfect engineers.
Realising this fact, we have signed following more than 29 MoUs - which makes us outstanding.

1. INFOSYS LTD.
2. NATIONAL ENTREPRENEURSHIP NETWORK
3. MICROSOFT LTD.
4. COGNIZANT TECHNOLOGY SOLUTIONS LTD.
5. TATA CONSULTANCY SERVICES
6. ZENSAR TECHNOLOGIES
7. SANDVIK ASIA LTD.
8. ACCENTURE SERVICES PVT. LTD.
9. THOUGHTWORKS
10. MPHASIS LTD.
11. SHELL TECHNOLOGY
12. WIPRO TECHNOLOGIES
13. IBM LTD.
14. SUNGARD TECHNOLOGY SERVICES
15. AMDOCS DEVELOPMENT CENTRE INDIA LTD.
16. KPIT TECHNOLOGIES LTD.
17. 3D PLM SOFTWARE SOLUTIONS LTD.
18. HONEYWELL AUTOMATION INDIA LTD.
19. EMC INFORMATION SYSTEMS INTERNATIONAL
20. MAHINDRA & MAHINDRA (FES)
21. IBM CENTRE OF EXCELLENCE
22. NVIDIA CORPORATION
23. EDITH COWAN UNIVERSITY
24. ITALIAN REPUBLIC
25. SYNECHRON TECHNOLOGIES PVT. LTD.
26. COMPUPLAST INTERNATIONAL INC.
27. ALL INDIA PLASTICS MANUFACTURER'S ASSOCIATION
28. DSM ENGINEERING LTD.
29. cBALANCE SOLUTIONS HUB, MUMBAI

Message from the Principal

Spacious buildings, lush green surroundings, well equipped laboratories, good library with e-resources for scholarly studies, and more over a peaceful atmosphere make learning a pleasure here

MAEER's Maharashtra Institute of Technology, Pune, is considered as a benchmark in engineering education. Efforts taken by the highly motivated teachers under the leadership of Hon. Prof. Vishwanath D. Karad, Founder Director, and the response given by the students in the past have made the Institute an important center of engineering education in the country. Past students spread over all corners of the world, take pride in calling themselves an 'alumnus of MIT, Pune'. They take active interest in the academic development of the department and also the current students by mentoring.

Spacious buildings, lush green lawns, well equipped laboratories, good library with e-resources for scholarly studies, and more over a peaceful atmosphere make learning a pleasure here. The teaching faculty members are experienced, innovative, caring and devoted to teaching.

The basic purpose of the Institute is to transform a young, enthusiastic student into a professionally competent engineer capable of accepting the challenges of the industry. The focus is on 'creative learning' based on the prescribed syllabus of the Savitribai Phule Pune University, to which the college is affiliated to. All its programs have been regularly receiving accreditation from The National Board of Accreditation (NBA).

Ample opportunities are provided for interaction with the experts from the industry through guest lectures, field visits, vacation training, activities of the student chapters of international professional bodies, sponsorships to technical paper presentation competitions etc.

Participation in sports, cultural and spiritual activities, environmental and social drives, is encouraged to develop a high level of emotional quotient and a team spirit in the students. We feel that such qualities and skills over and above the professional inputs are essential for a long prospective career in the rapidly changing global scenario.

We at MIT, Pune are thus committed to impart a value based universal education to develop 'winning personalities'.

We invite you to be a part of this long, successful tradition.

Dr. L. K. Kshirsagar
Principal

Administration

Maharashtra Academy of Engineering and Educational Research (MAEER), Pune

Handling and co-ordinating the overall administrative & financial matters. He also handles the correspondence with the Charity Commissioner and maintains record of land & other properties belonging to the MAEER Trust.

Shri. S. V. Kulkarni (Nanasaheb)
Registrar, MAEER Pune
Ph.: +91-20-30273430

Maharashtra Institute of Technology (MIT), Pune

Administration plays an important role in the effective management of a mammoth educational institute like MIT Pune.

Broadly speaking the Department of Administration forms by three major sections namely Establishment, Accounts and Students section.

The volume of work in such an ever-growing institute is stupendous and it encompasses number of activities related to staff as well as students community- like admissions, fee acceptance & other financial matters, students record & handling of day-today queries of students, recruitment of staff & handling of their records, maintaining attendance of staff & students, conducting examination, issue of timely instructions to staff & students of the various departments. Thus, right from admission till graduation of a student and even well thereafter, this department is co-ordinating all the activities smoothly and efficiently.

Shri. Abhay Birari
Deputy Registrar
Ph.: +91-20-30273463

Looks after the overall administrative matters related to students and staff in MIT and resolving procedural matters & correspondence with outside statutory Bodies like Savitribai Phule Pune University, AICTE, NBA, DTE and some of the Government departments. He has initiated the ERP system and its implementation. He is assisted by a devoted team members consisting of Mrs. Kavita Salunkhe, Mr. Pandurang Kadam, Mr. Vikas Nikam, Mr. Anand Umate, Mrs. Shweta Sinha and Mrs. Ratna Udgaonkar (Web Designer) in effective functioning of ERP among the faculty, staff, students & parent community.

Shri. Umesh Jadhav
Office Superintendent
Ph.: +91-20-30273252

Looks after correspondence & paper work with Savitribai Phule Pune University for affiliation & teachers' university approval. He also handles establishment matters like recruitment of teachers & other staff, individual staff files, Service Books, Leave & Attendance record, etc. He is assisted by Mrs. Kalyani Pol, Mr. Abhishek Waburkar, Mr. A. S. Munde and Mr. Subhash Kemshe.

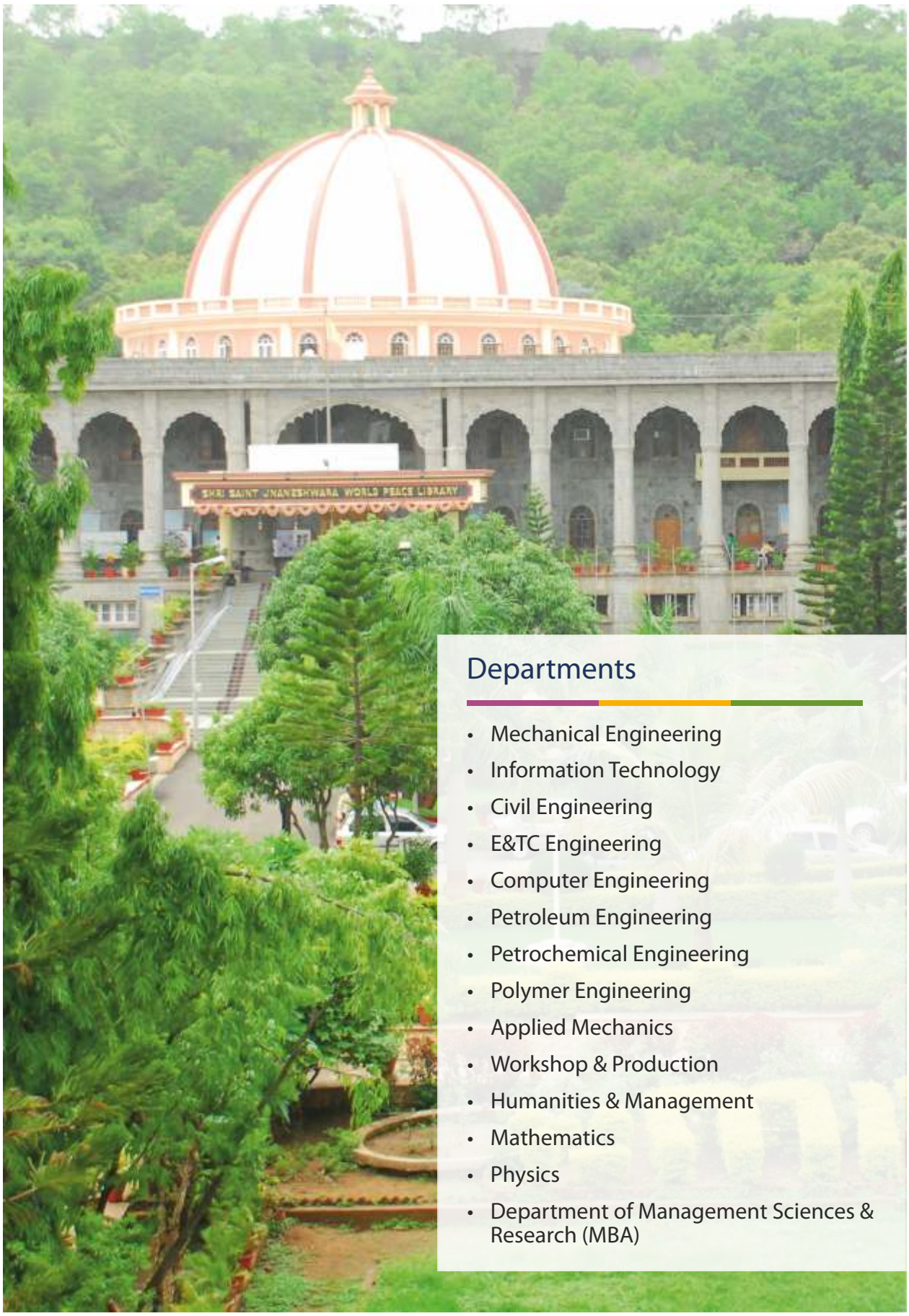
Shri. Madhukar A. Munde
Incharge - Students Section
Ph.: +91-20-30273427

Looks after admission, eligibility, scholarship, examination, travel concession & other matters pertaining to students of various UG & PG Engineering courses and MBA students. The section handles correspondence with DTE and various departments in Savitribai Phule Pune University. He is assisted by Mr. R.S. Somase, Mr. P.D. Bondre, Mr. P.S. Mote, Mrs. Sangeeta Deodhar, Mrs. Sheetal Medhekar and Mr. S. S. Kande.

Shri Girish Salvi
Accountant
Ph.: + 91-20-30273417

Looks after fee collection, day-today receipts & payments, proper filing & maintaining record of accounts. This section deals with correspondence & compliance of audit and tax related matters at respective government departments. He is assisted by Mr. Kisan Lohkare, Mrs. Radha Naik, Mr. Sameer Shinde, Mr. Mohan Telkikar and salary part is handled by M. Sitaram Karad.

The Department of Administration is backbone in smooth running of the entire system and to maintain efficiency of administrative staff a dedicated supportive Class IV staff team remains always ready for any official work at any time. The supporting staff members are Mr. Satish Kashid, Mr. Dattatray Mohite, Mr. Ramesh Thombare, Mr. Baliram Phunde and Mr. Shivaji Yadav.



Departments

- Mechanical Engineering
- Information Technology
- Civil Engineering
- E&TC Engineering
- Computer Engineering
- Petroleum Engineering
- Petrochemical Engineering
- Polymer Engineering
- Applied Mechanics
- Workshop & Production
- Humanities & Management
- Mathematics
- Physics
- Department of Management Sciences & Research (MBA)

MECHANICAL ENGINEERING

Prof. P . B. Joshi
Head of Department
M.E. (Mech.) M.I.E. (I)
Ph: +91-20-30273492
Email: prakash.joshi@mitpune.edu.in

Vision

To be recognized as a centre of educational excellence in Mechanical Engineering developing professionals for successful careers at national and international level.

Mission

To provide state of the art infrastructure and to offer opportunities for overall personality development along with enriching learning experience in close association with industry.

Degrees offered	Duration	Intake	Entry requirements
B.E. - Mechanical Engineering	4 years (B.E.)	90 seats (B.E. Mechanical)	B.E. - H.S.C. + JEE (Mains)
B.E.-Mechanical Engineering (sandwich pattern)	2 years (M.E.)	30 seats (B.E. Mech. Sandwich)	M.E. - B.E./B.Tech (GATE)
M.E. - Machine design		18 seats (M.E. Design)	Ph.D. - As per Savitribai Phule Pune University norms
M.E. - Heat Power		18 seats (M.E. Heat Power)	
Ph.D. - Mechanical Engineering			

Introduction

Mechanical Engineering is the most versatile core engineering which has applications in almost all fields of technology Mechanical engineers are required in automobile, chemical, electronics, steel, and fertilizer industries. Mechanical engineers also play a vital role in government sectors like Ordinance factories, railways, Steel plants, Oil exploration and Refining, technical wings of armed forces, Space Research Organization, etc. With the rapid rate of expansion in the industrial sector, the employment potential for mechanical engineers is very high.

Mechanical engineers also have a good scope to set up ancillary units of their own and design and manufacture assemblies and subassemblies required for large industries. In agricultural sector, mechanical engineers play a vital role by establishing service centers for maintenance of tractors, oil engines, pump sets, electric motors and other agricultural equipments.

Mechanical Engineering Programme Objectives:

1. Demonstrate the ability to design and develop products, systems and processes in multi-disciplinary engineering environment.
2. Demonstrate competencies to offer solutions to engineering problems.
3. Continue professional development through self-learning and higher education.
4. Pursue successful careers at national and international level in manufacturing, R & D, process, service sectors and management.
5. Demonstrate ethical and social awareness while making professional decisions.

BE (Mechanical Engineering) Programme

B.E. (Mechanical) Engineering is a four years degree course consisting of **eight semesters** (with 5 papers each) being conducted as prescribed by University of Pune. The course includes various topics / subjects such as Fluid Mechanics, Heat Transfer, machine design, Dynamics of Machinery, manufacturing process which creates foundation of a good mechanical engineer capable of taking higher studies and careers in CAD / CAM, CFD, Energy , Manufacturing, Management etc.

The final year students are required to carry out project, which require an in-depth study in a particular topic that is chosen by a group of students (usually 3 or 4 students in a group). Some of the projects are industry sponsored.

BE (Mechanical Engineering) Sandwich Course

The duration of the course is **four years**, which is the same as that of the regular degree course in Mechanical Engineering. This course is specially designed to offer industrial exposure to undergraduate students. During sixth and seventh semester students are sent to various Mechanical engineering industries of repute for a practical training programme of six months duration each time. The training of the students in industry is in two phases. The guidelines for training in both phases are prescribed by the University.

Faculty members from Maharashtra institute of Technology frequently visit the industries where the students are undergoing practical training, with a view to check their progress and provide necessary guidance. The students are required to report to the Institution every fortnight and discuss with the staff member incharge, about the progress of their work. At the end of the first phase of

training, students are required to submit training report to the University as term-work. At the end of the second phase of training, students are required to submit training report and project & seminar report to the University as term work. The course has been found to be very useful in developing the personality of a student as a practicing engineer and gives him an insight to understand and acquire engineering skills. The performance of our students is very much appreciated by the industry. The students have found the practical training extremely useful in getting employment in their career.

ME (Design Engineering)

From the academic year 2011-12 we have started post graduate program in design Engineering with intake of 18 students. The courses is of two years duration and affiliated to university of Pune, ME Mechanical Design stream offers courses related to design and analysis of mechanical systems and components.

ME (Heat Power Engineering)

From Academic year 2012-13 we have started post graduate programme of Heat Power Engineering with intake of 18 students. The course is of two years duration and affiliated to University of Pune. The stream of specialization in Heat Power Engineering offers courses related to theory and applications of Thermal Engineering Elective courses are offered by laboratories like Renewable Energy, Heat Transfer, Thermal Engineering.

Consultancy and facilitation to Industry

A) The Department has Metallurgy Consultancy & Development Centre. The Centre caters to the needs of industry around Pune for material testing, failure analysis and development of new materials.

B) The Department has also established Meter Calibration Centre. The Centre does calibration for Rickshaws & Taxies for last 26 years.

1) Design Engineering

- Modelling and Analysis
- Mechatronics
- Robotics
- Tribology
- Dynamics and Vibrations

2) Thermal & Fluid Engineering

- Heat Transfer & Augmentation Techniques
- Refrigeration & Air-conditioning
- Renewable energy

Laboratories

The Department of Mechanical Engineering has modern and well equipped laboratories.

These are as follows -

- Thermodynamics Laboratory (Steam and Internal Combustion engines)
- Steam Turbine & boiler house
- Heat and Mass Transfer Laboratory
- Refrigeration & Air conditioning Laboratory
- Theory of Machines and Vibrations Laboratory
- Fluid Machinery Laboratory
- Metrology and Metallography Laboratory
- CAD & Computer Laboratory
- Tribology Laboratory
- Mechatronics Laboratory
- Robotics Laboratory
- Computational Fluid Dynamics (CFD) Laboratory
- Renewable Energy Laboratory

We have recently procured following equipment which will improve academic inputs to the students.

1) FFT Analyser in vibration laboratory
2) Photo Elastic Bench in Design Engineering Laboratory
3) MSC Nastran/ADAMS software
4) Variable compression petrol / diesel engine in thermodynamics laboratory.
5) Diesel Engine Power Plant (15KVA) in thermodynamics laboratory.

Library

Apart from the main library of the institute , the Department of Mechanical engineering also has a library of its own. Department library has many handbooks and reference books on current topics summing to about 1400 titles

Assessment

The course is assessed on the basis of theory, papers, practicals, term work and orals as per University syllabus

INFORMATION TECHNOLOGY

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Vision

To impart high quality education by inculcating professional values.

Mission

To keep abreast with the rapid development of Information and Communication Technology enabling our graduates to offer superior IT solutions.

Degrees offered	Duration	Intake	Entry requirements
B.E. - Information Technology	4 years (B.E.)	60 seats (B.E.)	B.E. - H.S.C. + JEE (Mains)
M.E. - Information Technology	2 years (M.E.)	18 seats (M.E.)	M.E. - B.E./B.Tech (GATE)

Introduction

Information Technology has proliferated every sphere of human life for the past two decades or so. With rapid advancement in hardware, software and network technologies along with decreasing cost, Information Technology has become an integral part of our daily life. With economic liberalization and reform, India has started playing a major role in the global IT market and has already earned the reputation of producing world-class IT professionals. To meet this ongoing need, the Information Technology Department focuses on offering quality teaching in the class rooms and practical in state-of-the-art well equipped laboratories. Special stress is given on the seminars to hone their presentation skills on research topics. Final year projects are mostly guided by experienced faculty and industry professionals on current research trends in Security, Cloud Computing, Data Base Management Systems, Software Engineering, Networking and Web Technology.

BE (Information Technology)

BE (Information Technology) is a four-year course of eight semesters conducted and assessed by the University of Pune. The Course is accredited by National Board of Accreditation (NBA) .This gives an exposure to the students to IT Industries. The Department of Information Technology has adequate facilities consisting of different laboratories. The teaching faculty members are well qualified, experienced and always motivate students to excel in academic as well as extracurricular activities. They offer their guidance to the final year students in selecting Seminar Topics and the Final Year Projects based on latest IT trends.

M. E. (Information Technology)

M. E. (Information Technology) is a two-year course of four semesters conducted as prescribed by University of Pune. The Department is sanctioned with intake of 18 students. The first two semesters consists of core subjects like Mathematical Foundations of IT, Advanced Operating Systems, Research Methodologies, Applied Algorithms, Wireless Communication Technologies, Advanced Database Systems, Advanced Computer Architecture and Practical Classes related to the same along with seminar work. The last semester consists of Seminar and Project Work.

About the Department

The Information Technology Department has fully equipped laboratories and well qualified and experienced faculty. The Department regularly arranges seminars and workshops for the students and faculty, which are normally offered by the Industry Experts and Faculty Members from well-known Universities. It also organizes industry visits for the students.

Achievements

A large number of papers have been published in various International Journals and Conference Proceedings by our faculty members during the last three years. Our students participated and won prizes in many Technical Events.

Events

MITCERI

The Information Technology Department plays the lead role in establishing MIT Center of Excellence for Research & Innovation (MITCERI) in order to carry on research, development and innovation work in MIT Group of Institutions. Several distinguished speakers from India and abroad have already delivered invited lectures in its Research Colloquium. CUBE 2012 International Conference was jointly organized with Curtin University, Australia during 3-5 September 2012 in Pune. Proceedings of this CUBE Conference was published by the ICPS of the ACM Digital Library. Many of the final year project work have been presented in International Conferences and published in the Digital Libraries of ACM, IEEE, ELSEVIER and Springer Link.

TEXEPHYR

From this year onwards all the branches decided to collectively organize Annual National Technical Event TEXEPHYR. Various technical events and workshops are held under this event. This year GoogleIT, Brain Booster, Hot Keys, Techroadies, GUI Design Mania were organized along with a workshop on "Operating System and Computer Architecture."

IEEE Students' Chapter

IEEE Students Chapter of the Department remains active throughout the academic year. Various activities such as Paper Presentation, Seminars are organized under this Chapter. Also Students and Staff have access to the IEEE Transaction on Mobile Computing, Multimedia, Networking, and Software Engineering, Knowledge Engineering etc., which offers accessibility to the current research trends in the computing area.

CSI Students' Branch

Computer Society of India organizes various Technical Events in coordination with industry professionals. Most of our students are active CSI members. Through this membership students get exposure to the current trends in IT. It organizes seminars, workshops and conducts various trainings on latest software and tools.

Laboratories and Software

The Department is equipped with the "State-of-the-Art" infrastructure and software. All PCs in each and every laboratory of the Department are networked. The Internet facility with 100 Mbps Leased line is made available to the students and faculty. Generator backup is provided in all Laboratories.

1. **Programming Lab** is equipped with 41 PCs used for programming in C & C++ on Linux platform.
2. **Software Developments and Tools Lab** is equipped with 41 PCs used for advanced assignments in system design. Design tools such as Rational Rose and development tools such as Visual Studio, Visual .Net & SQL server and Oracle database are used in this lab.
3. **Project Lab** is equipped with 30 PCs dedicated for BE projects which can support different platforms.
4. **Hardware Lab** is equipped with 40 PCs used for C & C++. Also, out of 40, on few machines Xylinx is installed for practical purpose. The lab does have 13 trainer kits and also various hardware used for performing practicals like Peripherals and Interfacing.
5. **M.E.(I.T.) Lab** is equipped with 20 PCs, which facilitates network programming using NS2, Java and mobile computing related programming. M.E.(I.T.) projects are all research level projects which are carried out in the M.E. lab itself. All software that are used in the laboratory carry proper license.

Departmental Library

The Department has in all 903 titles. Department offers a Book Bank facility. Through this facility text books and reference books are given to students for the entire semester. It also maintains eleven Handbooks and two Magazines. Departmental Library has subscribed to online magazines as well.

Placement

The Department helps the students to get their projects sponsored by reputed and recognized organizations. This aids the students in getting proper guidance, experience and confidence. The demand for IT professionals is well known and reputed companies like TCS, PSPL, IBM, MBT Infosys, Wipro, Selectica, KPIT Cummins, Cognizant, AMDOCS, Deloitte etc. visit the Campus due to high quality education imparted to the Students.

Further Information

You can visit our web page **www.mitpune.com** for up-to-date information.

CIVIL ENGINEERING

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Vision

To create a responsible Civil Engineer with a technical Competence and managerial ability for nation building.

Mission

To create a learning environment conducive for achieving academic excellence. To develop an analytical mind ready for accepting challenges and finding solutions through use of new materials, processes and technology

Degree offered	Duration	Intake	Entry requirements
B.E. - Civil Engineering M.E. - Construction & Management M.E. - Civil Structures (Offered under Applied Mechanics Department) Ph.D. - Civil Engineering	4 years (B.E.) 2 years (M.E.)	60 seats (B.E.) 18 seats Construction Management (M.E.) 18 seats Civil Structure	B.E. - H.S.C. + JEE (Mains) M.E. - B.E./B.Tech (GATE) Ph.D. - As per Pune University norms

INTRODUCTION

A Civil Engineer has to work in diverse fields such as Irrigation, Dams, Canals, Hydropower, Roads, Railways, Buildings, Industrial Structures, Bridges, Docks, Harbours, Airfields, Tunnels, Environmental Engineering (including Water Supply and Wastewater Treatment Systems) etc. The job of a Civil Engineer extends over a wide spectrum of activities involving planning, designing, construction and maintenance of various Civil Engineering works. A Civil Engineer is also responsible for management of various resources, personnel, administration, finance and construction. Presently the infrastructure projects offer a wide scope for job as well as an entrepreneur. In addition, employment opportunities are in the private sector with leading construction companies like, DLF, L&T-ECC, SPCL, GMR Infrastructure, TCS, Punj Lloyd etc. Civil Engineers can themselves become job providers by becoming entrepreneurs and starting their own construction companies. Civil Engineers get employed with various consulting organizations and themselves can further become consultants. Civil Engineers can pursue post graduation and further Ph.D. and also become researchers as well as faculty members in Engineering Institutes.

Program Educational Objectives

The Civil Engineering graduates will demonstrate.

1. A strong foundation for becoming a technically competent human resource in the broad disciplines of Civil Engineering with effective communication skills.
2. Capability of conceptualizing, planning, analyzing, designing, estimating and construction and maintenance of Civil Engineering structures, based on fundamental principles, safety requirements and use of codes.
3. Use of modern trends in construction materials, methods, equipment, processes, techniques in Civil Engineering.
4. Practice of professional ethics necessary for responsive approach towards preservation of the environment to achieve sustainable development.
5. An eagerness for lifelong learning, including higher education and research.

B.E. (CIVIL ENGINEERING)

B.E. (Civil) is a four year undergraduate program spread over eight semesters (with 5 papers each), being conducted as prescribed by University of Pune. The course includes the various topics with which a Civil Engineer is concerned. B.E.(Civil Engineering) program of this department has been accredited by National Board of Accreditation (NBA) of all India Council of Technical Education, New Delhi(AICTE).

M.E. (CIVIL) CONSTRUCTION AND MANAGEMENT PROGRAMME

A two year post-graduate program spread over four semesters is being conducted as prescribed by the University of Pune. The first three semesters consist of theory and practicals and the last semester consist for seminar and project work. Besides classroom training and laboratory work, students are exposed to field practices, site visits and in-depth study of particular projects. Special training programs are being organized in collaboration with leading organizations in the field of construction. Eight batches have passed out and students are well placed.

ABOUT THE DEPARTMENT

The department of Civil Engineering is very well established with all the infrastructural facilities required to conduct undergraduate program and Post graduate program M.E. Civil (Construction and Management). The Pune University

has granted the department a Ph.D. Centre for research and development.

A centre of excellence (COE) has been established at the department in collaboration with the Department of Building Science and Technology, Politechnico de Milano University, Italy, to foster Research and Development.

The department is having well qualified and experienced staff in the basic disciplines of Civil Engineering. Many faculty members are pursuing their Ph.D. research. Faculty members have published research papers in International Journals, National Journals and are presenting papers in various conferences. Members are also Ph. D. Guides.

The department also accepts consultation, testing and R&D jobs from industries and other organizations. The department has offered consultancy services for variety of projects including Evaluation of Quality of Construction and Construction Supervision for the Piped Water Supply Schemes, in Pune district, under the Maharashtra Water Supply and Sewerage Board, sponsored by the World Bank. In addition, the department has also offered consultancy as regards concrete mix design, treatment of industrial waste effluents, environmental Impact Assessment (EIA) pollution control etc. The department was involved in the Training Management Consultancy assignment of MRWSES Project of Water Supply and Sanitation Department (WSSD-MJP) Government of Maharashtra aided by World Bank.

Department is well equipped to offer consultancy services in the areas of project management green materials, estimation, Total Quality Management (TQM) transportation engineering and geo-technical engineering, Environmental Impact Assessment.

130 students of MIT Participated in NCAT. Eight students were selected, for second round to be held at IIT Delhi in June 2014,out of which four students are from Civil department.

The department has taken lead in signing an MOU with the Deshpande Foundation for promoting student activities and projects in the domain of social entrepreneurship.

NIRMITEE

Every Year a National Level Technical Paper Presentation Meet for the students is being organized for the last thirteen years. In addition to this, model making and AutoCAD, Rotary youth Leadership Awards (RYLA) activity, technical quiz, town planning, tendering, line out competitions are also being organized. There is an excellent response to this activity from the various colleges from different parts of the country.

ALUMNI

Civil Engineering Department has an Alumni Association of its own. Alumni Association has helped in having a better interaction with the industry for the benefit of the students.

The Department of Civil Engineering has successfully trained 27 batches of BE students. Some of the students have been selected for postgraduate studies with scholarships in India as well as abroad in leading Universities and IITs. They are doing exceedingly well. With fully equipped laboratories and qualified staff, the department is capable of meeting all the challenges, including starting of additional postgraduate course, which are on the anvil, and guiding Ph. D. students.

LABORATORIES

The department of Civil Engineering has seven laboratories apart from those under Applied Mechanics Department for conducting the practical's and for training the students with the latest equipment and software's including Prima Vera, ERP, GIS, MS Project and Revit.

DEPARTMENTAL LIBRARY

In addition to the books/ journals available in the main library of the Institute, the department has also a well developed library of its own. This contains the books that are commonly required by the students, Journals, VCD's, Technical Literature.

LEARNING BEYOND SYLLABUS

Besides regular classes, a number of lectures by eminent engineers, from the industry are also arranged in order to keep the students abreast with the latest knowledge and development. Field visits to various construction sites, projects etc. along with the film shows on technical subjects are arranged, so as to expose the students to the field work and professional practices.

Department conducts field training and software training during vacation for developing competencies of students, with alumni and industrial support.

PLACEMENT

Every year a large number of students are able to get jobs through the placement cell of MIT. Leading Civil Engineering firms conduct campus interviews every year. To name a few, Tata Consultancy Services, S. N. Gharpure and company. Shapoorjee Pallonjee, L&T ECC, Essar Constr-uctions, Neil Soft, UHDE (I), Peninsula Land Ltd., TMC Projects etc.

ELECTRONICS & TELECOMMUNICATION ENGINEERING

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Vision: To be recognized as a leader in Electronics & Telecommunication Engineering education and applied research for the benefit of the society.

Mission: To draw upon the diverse and creative talents to deliver high quality engineering professionals and researchers. To develop facilities to accept contemporary challenges in the field of Electronics & Telecommunication Engineering

Degree offered	Duration	Intake	Entry requirements
B.E. - Electronics & Telecommunication Engineering M.E. - Electronics - Digital Systems Ph.D. - Electronics & Telecommunication Engineering	4 years (B.E.) 2 years (M.E.)	120 seats (B.E.) 18 seats (M.E.)	B.E. - H.S.C. + JEE (Mains) M.E. - B.E./B.Tech (GATE) Ph.D. - As per Pune University norms

INTRODUCTION

E & T C graduates find wide opportunities in today's growing communications era. This course has been designed by the University of Pune in consultation with senior industrialists in the Electronics & Telecommunication Engineering field. The career paths followed are diverse ranging from electronic product design to heavy electrical plant maintenance, from research to production, from technical focus to customer focus. The Department of Electronics and Telecommunication Engineering has been accredited by NBA (National Board of Accreditation) upto July 2016. It offers a Post Graduate program leading to a Master of Engineering in Electronics – Digital Systems and a Bachelor of Engineering in Electronics and Telecommunication (E&TC) Engineering. The department has a sanctioned intake of 120 students for the under graduate course and 18 students for the post graduation course. The student body' Association of Electronics Engineering Students' (AES) has been actively involved in several technical activities and project competitions like TEXEPHYR (earlier Intech Xication) IETE students Forum is involved in arranging the guest lectures by eminent speakers, industrialists and alumni. An E&TC departmental student cultural group, MERC organizes programs every year which a large number of students take part. The research activities in the department are supported though BCUD, (Board for College & University Development, University of Pune) grants. In addition, the faculty members under take sponsored research projects from the industry.

Infrastructure and Facilities

Following well equipped laboratories are available in the department

- Advanced Communication and Digital Circuits Lab Precise and automated readings at angular intervals of 1 degree or 5 degrees for plotting directivity patterns for various types of wire and micro-strip antennas up to 2GHz can be taken using Amitec make Antenna Trainer Kit and Signet Antenna Set up.
- Communication Systems, Microwave and Measurement Lab3 GHz & 6 GHz Vector Network Analyzers (Agilent make), 3 GHz Spectrum Analyzers (R&S & Agilent make), Agilent make Digital Storage Oscilloscopes are used to make precise measurements including parameters and antenna input impedance measurements. Advanced communication and microwave lab facilities like Network Analyzer, Spectrum Analyzer are used for testing and experiment based consultancy.
- NVIDIA CUDA Parallel Computing Lab has six workstations with five GTX 280 and one Tesla C1060 GPU Hardware cards. The workstations contain Asus P6T Motherboards with Intel p7 processors. B. E. and M.E. Projects are being developed in collaboration with NVIDIA, Pune. Students develop advanced algorithms in parallel computing in NVIDIA CUDA Laboratory. Apart from using the laboratories, students use various software packages for their experiments and projects. **Internet access is available in all laboratories. Software packages available in the department are:**
- MATLAB 11b with various toolboxes
- XILINX 10.1
- Microwind 3
- Qualnet
- Labview 2010
- Multisim
- ORCAD
- IE3D 15.1
- HFSS

A special mention can be made of software IE3D 15.1(EM Software) which is planar 3D Method of Moments solver for

various high frequency applications such as microstrip antenna, filters, resonators etc. This can also be used to simulate the EMC performance of high frequency analog and digital ICs. Departmental Library The department has a separate library consisting of more than 1200 titles. It has a good collection of academic and information books and subscriptions on the topics related to the field of E&TC.

Events

- The department along With IT, Computer & Mechanical departments, conducts a state level technical event
- 'TEXEPHYR' earlier called 'INTECHXICATION' every year in the second semester. The event is sponsored by number of industries in and around Pune. The main focus is on the BE Project exhibition and TE mini project exhibition in which judges from industry are invited to judge the projects, to give their feedbacks and suggestions to the students, thereby significantly improving the quality of these projects.

Special Feature - ROBOTICS E&TC Department has active support for student 's robotics activity. Students have shown great awareness and passion for developing robotic applications for their project work and robotic

- competitions. Robocon is one of the national level
- competitions where our students have shown
- consistent performance.

Recent Achievements

- Dr.G.N.Mulay, Prof.(Mrs.)A.A.Naik and Dr.(Mrs.)A.A.Khaparde published Indian Patent 2835/MUM/2014 on "System and Method for Depth Estimation of Stereo Images".
- Prof.(Mrs.)S.G.Kulkarni published Indian Patent 1505/MUM/2013 on "Portable device for dielectric characterization of low loss liquids".
- Ms. Aishwarya Hendre (BE-E&TC) and Sarvesh Chakradeo (BE-Mech) jointly won Rs. 1,00,000 at Intel India Embedded Challenge 2014, Bangalore for their project titled "Smart solution for social cause - Prosthetic Wrist under Myoelectric Control".
- Ketan Joshi (SE-E&TC) and Ganesh Bhosale (SE-Civil) jointly won Rs. 1,00,000 at Smart City Challenge-Infrastructure, Techfest'15 held at IIT Bombay.

Further Information You can visit our website : **www.mitpune.com** for the latest information.

COMPUTER ENGINEERING

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Vision

To build a value based academic center of excellence in Computer Engineering

Mission

To create an ambience nurturing integrity, discipline, technical knowledge and research in the emerging areas of Computer Science & Engineering

Degree offered:	Duration:	Intake:	Entry requirements:
B.E. - Computer Engineering	4 years (B.E.)	120 seats (B.E.)	B.E. - H.S.C. + JEE (Manins)
M.E. - Computer Engineering	2 years (M.E.)	18 seats (M.E.)	M.E. - B.E. (Computer Engineering / Information Technology) (GATE)

Introduction

We are indeed living in the computer age. Today computers are used in a wide range of applications. Whether it is a medical application or business process, computers are used to solve complex problems, efficiently and in a short time. As the ever-advancing field of Computer Technology has been used in a wide range of applications, Computer Engineers continue to have a promising future.

B.E. (Computer Engineering)

BE Computer Engineering is a four year course of eight semesters and is affiliated to Savitribai Phule Pune University (SPPU). The seminar presentations and project work by the students are based on latest aspects of Computer Engineering.

M.E. (Computer Engineering)

M.E. Computer Engineering is a full time two year course of four semesters and is affiliated to Savitribai Phule Pune University (SPPU).

The initial three semesters are coursework based, where different advanced subjects in Computer Engineering are covered while the last semester is based on seminar and Project dissertation.

About the Department

The department has fully equipped laboratories. It has well qualified and experienced staff. For students as well as staff, the department regularly arranges seminars, workshops by industry experts. It also organizes industrial visits for students. The department offers add on courses to cope up with the latest trends in technology. The track record of Results is excellent.

The Institute has signed MOUs with leading IT industries such as Infosys, TCS, Microsoft, Zensar, Accenture, Cognizant and National Entrepreneurship Network etc. to promote Industry Institute Interaction. The department has close interaction with theses industries.

Achievements

Every year about 20% of the final year students secure admission for higher studies at renowned Universities abroad and IITs in India.

Events

1. Texephyr: Our student association ACES (Association of Computer Engineering Students) organizes this state level event every year, which includes various events including BE Inter and Intra College Project Competition, Programming Contests, Quiz contests etc.

2. CSI Students Branch: More than 150 students have formed CSI student branch. It organizes Seminars, Guest Lecturers and Add-on courses. This gives an exposure to the students to IT industries.

3. ACM Students Branch: Has been formed with our graduate and post graduate students as members. Several activities, technical seminars, workshops are arranged for students.

4. MIT Computer-Users Group (MCUG): This Student group actively conducts a variety of sessions for the benefit of student community and the same has been receiving very good response. Events include Mentoring Sessions, Workshops, Mathematics and Logic building (Maptitude) hobby club, Technothon (2 days technical fest). A Newsletter has also been launched.

Laboratories and Software

The department is equipped with "state of the art" infrastructure and software. All PCs in each and every lab of the department are networked. The Internet facility (with

200Mbps leased line) is made available to the students and staff. The department has following laboratories.

Programming Lab: Equipped with 40 PCs is used for programming in Java, Python and QT Creator.

Operating Systems Lab: Equipped with 40 PCs is used for implementing assignments of operating system under Linux Platform. NVIDIA GPU based Parallel Computing assignments are carried out using OpenMP and CUDA.

System Design and Developments Lab: Equipped with 40

PCs is used for advanced assignments in system design. Design tools such as Rational Software Architect and development tools such as Visual Studio, Visual.net, SQL server and Oracle database are used in this lab.

Computer Network & Security Lab: Equipped with 40 PCs is used for implementing the assignments of computer networks &security. For understanding the basic concepts in net working, the lab has specialized equipments/kits such as LAN trainer, ISECUREIT kit, Routers, Switches and related software such as Ethereal, LAN Explorer, & Cryptool etc.

Microprocessor Lab: Equipped with 20PCs and Microprocessor kits, is used for assembly language programming and hardware interfacing assignments.

Embedded Lab: Equipped with 20 PCs, ARM processor kits and RTOS is used to implement embedded system design assignments. The lab is recently updated with 10 beaglebone black boards used as open source hardware.

IBM Centre of Excellence: It is equipped with 40 computers. It is developed in collaboration with IBM for specialized training on latest IBM technologies such as RAD, DB2, RSA etc.

ME Lab: This lab is equipped with 20 high end PCs catering the need of post graduate programme. It has specialized software like RSA for designing software.

Amdocs Innovation Center: It is state of art laboratory funded by Amdocs. Every semester, few students are scrutinized by Amdocs to perform projects on innovative research ideas. This is additional laboratory apart from curriculum and is equipped with open source hardware and software.

Departmental Library

The department has separate departmental library consisting of more than 1400 titles and more than 3000 books. It has good collection of academic as well as management and soft skills books. The library also subscribes to ACM journals.

Placements

The Department helps the students to get their projects sponsored by reputed and recognized organizations. This facilitates the students in getting proper exposure, guidance, experience and confidence. The demand for Computer Engineers is well known and reputed companies like PSPL, IBM, Infosys, Amdocs, John Deere, JP-Morgan, Wipro, Synecron, Selectica, KPIT Cummins etc. are coming to the Campus due to high quality of education imparted in the Institute. Around 70% of our students get placed in leading IT industries.

Further Information you can visit our web page
http://www.mitpune.com/dept-comp/dept-comp.aspx
for up-to-date information.

PETROLEUM ENGINEERING

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Vision

To be recognizead as a centre of educational excellence in the field of Petroleum and Petrochemical Engineering with a strong foundation of social and professional ethics.

Mission

To produce quality petroleum and petrochemical engineering graduates from students of diversified background by providing them broad based education, team building skills, and professional values in a nurturing as well as creative learning environment.

Degrees offered:	**Duration:**	**Intake:**	**Entry requirements:**
B.E. - Petroleum Engineering	4 years (B.E.)	60 seats (B.E.)	B.E. - H.S.C. + JEE (Mains)
M.E. - Petroleum Engineering (By Papers)	2 years (M.E.)	18 seats (M.E.)	M.E. - B.E./B.Tech(GATE)
M.E. - Petroleum Engineering (By Research)			Ph. D. - As per Pune University norms
Ph.D. - Petroleum Engineering			
Ph.D. Geology			

Program Educational Objectives, PEOs

The Petroleum Engineering graduates would have attained

1. Key level engineering positions in broad areas of Petroleum Engineering through lifelong learning and also by pursuing higher education
2. Competencies to accept contemporary challenges arising out of inherent risk and uncertainty in oil and gas sector
3. An ability to practice the profession in an ethical, socially and environmentally responsive manner
4. Effective skills to work in multidisciplinary groups of diversified cultural backgrounds.

Program Outcomes, POs

The Petroleum Engineering Graduates shall demonstrate:

a) Knowledge of mathematics, basic sciences , geo-sciences and engineering fundamentals to solve complex engineering problems.
b) An ability to use appropriate knowledge to identify, formulate, analyze, and solve petroleum engineering problems.
c) Understanding of design and analysis of systems.
d) An ability to conduct investigations of complex petroleum engineering problems.
e) Familiarity with appropriate techniques, resources and modern engineering tools.
f) An ability to analyze social, legal, safety, cultural and ethical issues related to petroleum industry.
g) Demonstrate knowledge and need of sustainable development and production of hydrocarbons resources, and impact of relevant professional engineering solutions in the societal and environmental context.
h) An understanding of professional and ethical responsibilities in engineering practice and commitment to them.
i) Ability to communicate effectively complex engineering concepts within the profession and with society in written, oral and graphical form.
j) Ability to be an efficient member and leader of a project in multidisciplinary teams by demonstrating knowledge and understanding engineering and management principles.
k) An ability to independently summarize, analyze, synthesize and evaluate information from a wide variety of sources throughout professional tenure.

Introduction

Petroleum engineering students cover a broad education spectrum from exploration of hydrocarbons to refining and transportation of oil and gas. This requires knowledge of pure and applied sciences along with different engineering disciplines.

Petroleum engineers search for oil and gas reservoirs. They develop safest and efficient methods of fetching the oil and gas to the surface. The petroleum engineer is involved in recovering the hydrocarbons through refining and distributing it. Using skills that are associated with the earth sciences, petroleum engineers examine a variety of geologic and engineering data to determine the most likely sources of hydrocarbons.

Petroleum engineering is truly an interdisciplinary program where inputs from different disciplines are required. Therefore the emphasis is to provide balanced education in essential (geology, chemical engineering, reservoir, drilling, production refining and environment) areas of petroleum engineering.

Petroleum Engineering is a technology driven discipline. Understanding of this is realized when the students are undergoing internship. Students need to be prepared when change occurs. Future graduates must be prepared to adapt,

be diverse, and aware. It is the program's objective to provide students with the knowledge required to meet these challenges by participating in social and professional activities. This allows students realize the evolving challenges in petroleum industry.

BE (Petroleum Engineering) Accredited by NBA

BE (Petroleum) is a four-year course of eight terms (five Maharashtra Institute of Technology MIT Papers in each semester), permanently affiliated to the University of Pune and is twice accredited by the National Board of Accreditation, New, Delhi. The program covers courses related to petroleum exploration, reservoir engineering, and production engineering, well engineering and refining technology.

Elective subjects like unconventional hydrocarbon resources, well control, production enhancement and optimization, well completion, petroleum finance and economics and project management are introduced in the curriculum of final year of petroleum engineering. The students are encouraged to participate in different co-curricular activities organized at national and international level. They are also exposed to internship/ summer training at the end of sixth term for duration of six weeks. An industrial exposure gives them understanding of working environment and challenges in Petroleum Industry.

ME (Petroleum Engineering)

The ME Petroleum Program, a two year post graduate course is affiliated to University of Pune.

Research Centre

Department also has approval from University of Pune to carry out research leading to Doctorate in Petroleum Engineering and Geology.

Faculty members in the department are qualified, competent and experienced to provide excellent learning opportunities in all domains of petroleum engineering to students joining this program. Many research projects in the areas of geosciences, well engineering, reservoir engineering and production engineering have been carried out in the department with the support from MoES, DST, AICTE and University of Pune.

Infrastructure

Well-equipped laboratories and computer centre with presence of professional software covering different domains of petroleum engineering are available in the department.

Relationship with Professional Organizations

An active student chapter of the Society of Petroleum Engineers, (SPE International), one of the largest professional body, is in existence since 1989. Many student centric activities are organized as a part of MIT SPE Student Chapter throughout the year. This chapter is recognized as Outstanding Student Chapter by SPE in 2014.

ONGC has established the "ONGC Chair of Professor " (ONGCA/GGM/Chairs/ 2008 dated 16.10.2008) at the department under which various ONGC professionals are invited to deliver guest lectures and conduct workshops on selected topics. Faculty members are also invited at Dehradun to deliver lectures to ONGC executives. Special workshop for girl students is also conducted to understand them work culture of Petroleum Industry.

The department has also signed MOU with SHELL India, Cairn Energy India and Aker Solutions. The Cairn Campus Connect Program, CIIIP allows organization of invited lecture series on specific topics and visits to their installations. Cairn Energy India has donated drilling and completion equipment as a part of this program. SHELL India encourages students to promote various social events, develop environmental awareness and soft skills in addition to develop professional competence. Aker Powergas Subsea Private Limited has signed a MoU with MIT Pune to developed state of art Subsea Engineering Laboratory on the campus in next three years. The department also has student chapter of Society of Petroleum Engineers, International, Society of Petroleum Geophysicists, India and PETROTECH India.

Career Opportunities in Petroleum Engineering

A career in Petroleum Industry requires effective use of brain and hand. The students should have desire to work in field, ability to carry out experimental work and also need to understand professional software to explain risk and uncertainty. This field is lucrative for any intelligent, and hardworking student.

Petroleum engineers are recruited in national and private oil and gas companies, contractor and service companies, engineering consulting firms, government agencies, oil field services, and equipment suppliers. Petroleum engineers also work as consultant. With growing use of specialized software in Petroleum Industry, the engineers have opportunity to work in software industry as well. Business Analytics and Supply Chain Management are another sectors available for the recruitment of Petroleum Engineers. There are excellent global opportunities for petroleum engineers, as it is very much a global business.

Almost all jobs in this field require excellent team spirit. They need to have ability to communicate effectively and work efficiently with other people. They should be able to work as part of a team and to communicate well, both orally and in writing.

PETROCHEMICAL ENGINEERING

Prof. D. B. Dandge
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Vision
To be recognized as a centre of educational excellence in the field of Petroleum and Petrochemical Engineering with a strong foundation of social and professional ethics.

Mission
To produce quality petroleum and petrochemical engineering graduates from students of diversified background by providing them broad based education, team building skills, and professional values in a nurturing as well as creative learning environment.

Degrees offered	Duration	Intake	Entry requirements
B.E. - Petrochemical Engineering	4 years	30 seats	H.S.C. + JEE (Mains)

INTRODUCTION

Petrochemicals are the derivatives of crude oil and natural gas. Petrochemical industry mainly comprise of synthetic fibre / yarn, polymers, Synthetic Rubber (elastomers), Synthetic detergent intermediates, performance plastics and plastic processing industry. Petrochemical products permeate the entire spectrum of daily use items and cover almost every sphere of life like clothing, housing, construction, furniture, automobiles, household items, agriculture, horticulture, irrigation, packaging, medical appliances, electronic and electrical gadgets etc. Petrochemical industry plays a vital role in economic growth and development of manufacturing sector. The value addition in the petrochemicals industry is higher than most of the other industry sectors. Some of the key players in this industry are Indian Oil Corporation Ltd, Gas Authority of India Ltd and Reliance Industries Ltd. A number of Indian state-owned energy companies are making major investments to boost their petrochemical activities and are expected to become significant players in the sector. Capacity expansions by several other manufacturers are moving ahead and gradually filling the gap between domestic demand and supply.

Olefins (ethylene, propylene & butadiene) and Aromatics (benzene, toluene & xylenes) are the major building blocks from which most Chemicals and Petrochemicals are produced. They are used in dyes, synthetic fibres, rubbers, plastics, pharmaceutical bulk drugs, industrial appliances, packaging industry, detergents (surfactants). Petro-chemicals production process consists of primarily two stages. In the first stage naphtha, produced by refining, crude oil or natural gas is used as a feedstock and is cracked. Cracking (breaking of long chain of hydrocarbon molecule) produces olefins and reforming process yields aromatics. In stage two, these building blocks are polymerized to produce downstream petrochemical products such as polymers, polyesters, fibre intermediaries and other industrial chemicals. The integrated naphtha / gas cracker complexes are becoming the norm. They are technology intensive and enjoy economy of scales.

Petrochemical engineering deals with sciences and engineering needed to treat crude petroleum, to fractionate it into various products, to convert low value heavy reside products into high value light and middle distillates and also to convert the feed stocks obtained from crude into the petrochemicals of consumable grade for various downstream industries. Knowledge and skills gained by a petrochemical engineer are equally applicable in any other segment of Chemical Process Industry..

New generation petrochemical engineers also have to confront the challenge of producing petrochemicals that meet the increasingly stricter environment norms, while catering to hydrocarbon and energy security needs of the nation.

With the use of fully automated plants, the direct employment in these plants is reduced but the products coming out from these plants create new avenues of continued employment.

A balance between both technological and engineering aspects of refinery operations and petrochemical processes is taught in the course in view of the requirements of today and tomorrow.

BE (Petrochemical Engineering)

Career Opportunities

BE (Petrochemical) is a four-year course of eight semesters (5 papers each) conducted and assessed by the University of Pune. The degree course in Petrochemical Engineering has been structured in such a manner that it will meet the present and future requirements of the industry. Petrochemical degree course at the University of Pune is a specialized chemical engineering course with emphasis on refining operations and petrochemical technology. Core subjects like Reaction Engineering, Heat Transfer, Mass Transfer, Fluid Dynamics, Thermodynamics, Transport

Phenomena are bridged with special subjects like Petrochemical Processes, Refinery operations with due weightage on Numerical Computation Process Control, Modeling & Simulation.

Petrochemical engineering graduates therefore will be in a position to shoulder responsibilities in refineries, petrochemical plants as well as downstream petroleum industries and R & D Organizations. The department has a vibrant student chapter of Petrotech Society, New Delhi, One of the only six granted by the Petrotech Society. The chapter is a platform for fruitful interaction with petrochemical industry through seminars, workshop, projects, and industrial training.

Industrial Training

Industrial exposure is necessary for a technology oriented professional course. Therefore industrial training is arranged for each student in various semesters by the Department. In addition, visits to industries and exhibitions are also encouraged.

Academic Projects & Seminars

Final year Students must undertake some academic projects in two semesters and work on their own topics and submit the report to the University. Their performance on these projects is also considered for their final assessment. Usually, final year projects are completed with help of Industries, National Laboratories etc.

Laboratories

The Department has developed separate mod-tech laboratories for practical training of the students.

Advanced Analytical facilities:

Advanced Analytical facilities are made available at the Analytical Research Laboratory by addition of Gas Chromatograph-mass Spectro-photometer (GC-MS) HP 5971 B MSD coupled with HP 5890 A Series II gas Chromatograph. The instrument is governed by HP 1034 B Software for HP MS Station (DOS Series). The equipment covers the application areas of Petroleum Exploration, Oil testing, Pesticide & Herbicide residue analysis and Hazardous waste characterization. We also have additional GC/FID unit-Chemito GC8610. Important laboratories in the Department include those for Refining and Separation process, Petrochemical Processes, Chemical Engineering Operations, Heat Transfer, Mass Transfer, Instrumentation and Process Control, Petroleum Engineering, Petroleum Geo-science, Petroleum Exploration and Engineering Geology, Fluid Mechanics, Modeling and Simulation.

Research

The faculty of the department is engaged in research on frontier areas of petrochemical engineering. Some of the research areas are Novel crude processing options, Reactive Separation, Gasification, Cavitation, Boiling heat transfer, Anerobic Waste Water Treatment etc. The research projects are funded by BCUD University of Pune, DST, Govt. of India and AICTE.

Departmental Library

The Department has a library that has over 500 specialised books, e-books, prints of e-books, SPE Image Library and National and International journals for the reference.

Assessment

Assessment is by theory examination, practical, term work, and viva-voce.

Computer Laboratory and Internet Centre

The Department has a separate Internet Centre with 30 computers, where computer related practicals are conducted. Students can work on their projects and also avail the facility of internet browsing. This facility has increased the quality of presentations in Projects and Paper

Presentations

Modeling and Simulation Laboratory A separate laboratory for simulation studies is set up and houses specialised software including AspenHysis, HTRI, Comso Multiphysics, Matlab etc. These software have been specially procured to enable the students to accept the challenges in the industry.

POLYMER ENGINEERING

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Vision

To be recognized as a center of excellence in the field of Polymer Engineering education and research.

Mission

To create an ambience nurturing sound technical knowledge, ethical values and research culture.

Degrees offered	Duration	Intake	Entry requirements
B.E. - Polymer Engineering	4 years (B.E.)	60 seats (B.E.)	B.E. - H.S.C. + JEE (Mains)
M.E. - Polymer Engineering	2 years (M.E.)	10 seats (M.E.)	M.E. - B.E./B.Tech. (GATE)
Ph.D. - Polymer Engineering			Ph.D. - As per Pune University norms

Career Opportunities

Polymeric materials such as plastics, rubbers, fibers, paints, adhesives are gradually replacing conventional materials such as glass, wood, metals, paper and alike. In fact, polymeric materials have been increasingly used for everything from "buckets to rockets". For past few decades the polymer industry in India has grown by leaps and bounds, encompassing diverse fields such as : Developments of new Materials, Polymer Manufacture, Application Research, Product Design and Development. This has lead to a specialized field of technical studies known as "Polymer Engineering". This interdisciplinary course involves confluence of Chemical Engineering, Material Science and Engineering, Chemical Engineering along with basic sciences such as Chemistry.

A large number of industries for the manufacture of the polymeric materials and their conversion to finished products have been established in the state of Maharashtra. In view of wide exposure and multi disciplinary nature of undergraduate (BE) Polymer Engineering course, our students find employment in various industries such as Polymer manufacturing, Chemicals, Paints, Rubbers, Plastics, Adhesives, Fibers, etc. Majority of our students are employed in Polymer Conversion or Polymer Processing Industry. A large number of students from this department have migrated to USA, UK, Australia and other European countries for higher studies. They are gainfully employed in R & D activities in these countries.

BE (Polymer Engineering)

BE (Polymer Engineering) is a four year full-time course comprising of eight semesters (5 papers each) conducted and assessed by the University of Pune. The syllabus includes major subjects related to -

- Processing Technologies
- Polymeric Materials and Composites
- Polymer Chemistry
- Polymer Rheology
- Polymer Characterization and Testing
- Polymer Reaction Engineering
- Mould and Die Design
- Process Equipment Design
- Product Design and Simulation
- Mechanics of Composites
- Fiber Technology
- Rubber Technology
- Surface Coatings and Adhesives
- Packaging Technology
- Management and Operation Research

ME (Polymer Engineering)

The department conducts two years full-time postgraduate degree course in Polymer Engineering which is affiliated to University of Pune. The sanctioned intake strength for this course is 10 students per year.

Ph.D. (Polymer Engineering)

Department has recognized research center which offers Doctor of Philosophy program in Polymer Engineering.

General Information

The Department of Polymer Engineering has adequate facilities consisting of different laboratories. The teaching faculty in well-qualified and experienced. Practical training in leading polymer industries is arranged for the students during the vacation at the end of third year of the course.

Achievements, Consultancy, Testing

Department undertakes consultancy work for Material and Process Development, Mould and Die Design, and Composite Material Development. The department undertakes testing, R & D as well as consultation work for the industries. Industry sponsored projects are assigned to the students in the final year of BE course.

Research Center

Faculty is engaged in research projects sponsored by various government funding agencies like DST, AICTE, BCUD-Pune University as well as various polymer industries. With formal and informal tie-ups with research organizations and polymer

industries in and around Pune, the department is actively involved in fundamental as well as contemporary problems related to various areas of the polymer field. This interaction facilitates access to the latest research facilities required to carry out research work. The research interest of the department encompasses various areas which can broadly be categorized into Development of Polymeric Materials through Synthesis, Reaction Kinetics and Structure Modifications, Processing and Rheology, Product Design by Modeling and Simulation, Mechanics of Composites and Multiphase Systems.

Alumni

The department maintains regular contact with the past students and keeps updated record of Alumni. Our Alumni actively contributes in the development of Department in terms of assisting in curriculum development, helping in Final year projects, delivering lectures, etc.

Events

Every year students visit various industries in and around Pune. Students undergo the industrial training of about one-month at the end of third year. The department organizes number of Invited talks from eminent personalities from Industry, Academia and Research Organization in addition to some workshops. The Polymer Students Association, functioning in the department, organizes an Industry-Institute Interaction program "Confluence" on annual basis. Every year the students also organize "Affinity", the National Level Paper presentation competition alongwith other events such as Product Development, Movionics, etc.

Laboratories

- Polymer Processing Laboratory
- Polymer Compounding and Rheology Laboratory
- Polymer Synthesis Laboratory
- Polymer Materials and Composites Laboratory
- Polymer Testing and Characterization Laboratory
- Computer and Simulation Laboratory
- Compuplast-MIT Polymer Simulation Laboratory
- Applied Chemistry – I Laboratory
- Applied Chemistry – II Laboratory

Facilities

Processing Equipment

- Blown Film Extrusion Plant
- Transfer Moulding Press
- Two-roll mill
- Rotational Moulding Machine
- Injection Moulding Machine (Ferromatic, Arburg)
- Twin Screw Extruder (Werner & Pfleider)
- Extrusion Blow Moulding Machine
- Thermoforming Machine
- Brabender Plasticorder
- Sigma Blade Mixer
- High Speed Mixer
- Scrap Granulator
- Profile Cutter
- High Frequency Dielectric Welding Machine
- Drilling and Milling Machines, Lathe

Testing and Characterization Equipment

- Compression Stress Relaxometer
- Direct-reading Specific Gravity Meter
- Testing testing Machine (Dutron, Instron)
- Izod Impact Tester
- Capillary Rheometer (Instron)
- Gas Permeability Tester
- Melt Flow Indexer
- Volume and Surface Resistivity Tester
- Friction Tester
- Falling Dart Impact Tester
- Heat Distortion Temperature Equipment
- Shore Hardness Tester
- ESCR
- Brookfield Viscometer
- Fourier Transform Infra-red Spectrometer (FTIR)
- Hydrostatic Pressure Tester
- Di-electric Strength Tester
- Rota-evaporator

Simulation Software

- Sysply – Advanced composite laminate design simulation software
- Compuplast Inc., Canada has donated 8 licenses for four processing related simulation software namely
- Compuplast® Virtual Extrusion LaboratoryTM (VELTM) : State of the art simulation software based on dissipation model for design of extrusion dies and screws.
- Moldex3DTM (Injection Molding Simulation) : Injection mold and product design simulation software.
- T-SIM® (Thermoforming Simulation) : Thermoforming mold and product design.
- B-SIM (Blow Molding Simulation) : Blow molding mold and product design.

Departmental Library

The department has a separate library over and above the Central Library. Departmental Library has over 2000 books for ready reference to the students & faculty. The departmental library also has final year project reports in addition to number of books, videos in the form of E-library.

Computer Laboratories and Internet Center

In addition to central Internet facility center, the Department has separate Computer Laboratories where laboratory sessions for various subjects are conducted. Spread over two laboratories, there are about 75 computers for UG intake of 60 students. Additionally, students have access to all the facilities required for completing their assignment and project work.

Placement

In view of the large industry segments which the course caters to, the placement has been very good. Apart from this, significant numbers of students pursue their higher studies in India as well as Abroad. The past students of this department are gainfully employed and are holing responsible positions in various sectors of Industry, Academia and Research organizations.

Trends

- Approximately 1500 students have passed out from this department since 1986.
- About 45% of students have settled abroad at places like USA, UK, Australia, New-Zealand, Germany, Japan, Middle-east countries.
- About 10% of students have cleared competitive examinations and settled in allied fields
- About 45% of students are working in various industries.

STRUCTURAL ENGINEERING AND APPLIED MECHANICS

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Vision :
To create sound foundation and analytical ability to analyze and design engineering structures .To develop ability to use technological advances in design technology &materials for effective application to structural designs .To prepare for international challenges in the field of technological design and construction.

Mission:
To be leaders in the field of analysis and design for Civil engineering &construction industry

Post Degree offered:	**Duration:**	**Intake:-**	**Entry requirements:-**
M.E. - Civil Structures Ph.D. - Civil Engineering	M.E:2 years Ph D: 3 years	18 seats (M.E.)	M.E. - B.E. /B.Tech Civil (GATE) Ph.D. - As per Pune University norms

Introduction
This department offers Masters Degree in Structural Engineering, and Research Programme in Civil Engineering. It has well equipped state of art laboratories and experienced faculty members. The department deals with teaching interdisciplinary subjects like, Engineering, Mechanics to all Under graduate disciplines, Strength of Materials, Analysis and design to Mechanical, Mechanical Sandwich, Polymer, Petroleum, Civil Engineering along with post graduate degree in Civil -Structural Engineering. The Department is also actively engaged in carrying out theoretical and experimental research in the field of structural engineering , Design, construction technology.

Career Opportunities

Students have opportunity to develop their skills required for Construction and Infrastructure Industry. They have openings in Structural Consultanc y, Major Design Engineering Firms and Infrastructure and construction Companies. They can be entrepreneurs and those having research perspective/orientation can take up Structural Engineering as specialization in Masters and Ph. D. Programme.

Consultancy

Major consultancy areas include

1. Verification of structural design of RCC, steel, composite structures. Verification of strength of old structures. Water and soil retaining structures. Finite Element analysis.
2. Third party structural auditing.
3. Structural optimization, product design using FEM.
4 Concrete quality and Concrete mix design.

Laboratories

- Heavy Structures Laboratory
- Testing of Materials Laboratory
- Concrete Technology Laboratory
- Applied Mechanics Laboratory
- PG Computer Laboratory
- Biomechanics Laboratory

Major Research Projects

INDO -Italian ,DST Project of
Cooperation for Design and Construction Technology
UKEIRI -Faculty Exchange Grant
UKIERI –Institutional Capacity Building Project ICB-!3 FOR Skill Development in Construction
BCUD Projects -Pune University- 09 Nos.

Major Equipments

- 3D Loading Frame – with torsional load facility - 200
- Tonnes
- Universal testing machine-100 Tones
- Concrete Compression testing machine-400KN
- Ultrasonic pulse concrete testing, rebound Hammer
- Hardness and Impact testing
- Torsion testing
- Pipe Pressure testing
- Thermal Insulation testing
- Concrete pre-stressing Yard
- Concrete mixer .
- Concrete Impacting Rig
- Tile Aberation Testing
- Beding Testing

The Department has latest Software Tools

- ANSYS
- STAAD Pro
- STRUD
- SAP 2000
- ETABS
- Perform 3D
- STRAP
- NISA CIVIL

Short Term Vacational Training for all

ME-Civil Structure students. The internship for al ME Structures students is offered at various design and construction firms. The department has good liaison with Construction Industry and is a active member of various professional bodies and organizations. This gives better employability to our students and industry exposure during curriculum. The department offers commercial testing and Consultancy services to government and private construction houses. The department has ac tive collaboration with many renowned foreign Universities at academic and research level and has active student and faculty programmes together .

Department of applied Mechanics is also Recognized as Indo-Italian Centre of Excellence for Innovative Design and Construction Technology (IDCT) Supported by European Union and Department of Science and Technology New Delhi Recipient of British Council`s UKIERI ICB Grant for `Skill development in Construction`

WORKSHOP AND PRODUCTION

Prof. Ganesh P. Borikar
Head of Department
M.E. (Mech. CAD/CAM)
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The Department of Workshop and Production has four spacious shops namely: (1) Machine Shop (2) Black-smithy shop (3) Carpentry (4) Fitting shop and two Laboratories Metrology Lab. and CNC/CAM lab. All the shops are equipped with quality equipment and have well-qualified and experienced staff to maintain the equipment and impart training to students. The machine shop contains a number of general purpose machines including Lathes, Milling machines, Shaping machine and special purpose machines such as M1TR from HMT and a surface grinder from Praga.

Manufacturing Practices

All F.E. students irrespective of their branch are tought the right way of using various hand tools. Students undergo hands on training / practicals from different engineering work trades like Carpentry, Welding, Fitting, Tin smithy, Foundry, Blacksmithy. They also gets familiar with the different processes to shape and size the work piece. S.E. onwards students form Mechanical, Polymer, Petroleum & Petrochemical Engg. Department perform practicals on Machinery, Welding and Pattern Making.

Computer Aided Manufacturing

The department has a CNC / CAM Lab, which is equipped with CNC lathe machine of production type and CNC vertical milling machine of trainer type. Final year mechanical students working on these machines develop confidence in them and they can easily get accustomed with the CNC machines on the shop floor in whichever company they will be working without any apprehension. Recently the department has purchased DelCam Software B.E. Mech. & Mech. Sandwich students are trained on this software.

Project Work

Final year Mechanical Engineering students carry out projects in groups and every year different projects are undertaken. Full fledge workshop facility is provided for project work as and when required.

Workshop supports in developing working models for different technical events like Accexlerate, Robocon etc. Computerization of workshop activities has been taken up. Activities are planned for strong interaction between MIT on the one hand and industries on the other.

The department is headed by Prof. Ganesh P. Borikar having academic & industrial experience of 18 years. He is well supported by Prof. A. U. Palange, Prof. S. R. Deshmukh, Prof. S. B. Kolekar, Foreman Mr. B. T. Kotulkar and other trained & qualified Technical Instructors, Store Keepers & Laboratory attendants team.

HUMANITIES AND MANAGEMENT

Prof. Sudhir N. Rane
Head of Department
D.C.E. B.E. (Civil), D.B.M.,
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The Department of Humanities and Management Sciences was established in the year 1987 under the aegis of MAEER's Maharashtra Institute of Technology, Pune.

The principal objective of this department is to provide under graduate education in courses like Industrial Management, Industrial Organization and Management, Engineering Economics, Social Sciences, Financial Management, Marketing Management, Materials Management, Business Administration and Management, Foreign trade etc. for Engineering Undergraduate students of all the disciplines. In globalized times of today the business and industrial environs are exceedingly volatile and business houses to ceasseally reinvent themselves.

The Department of Humanities and Management Sciences trains budding engineers to be highly effective, efficient and competitive in ever-changing global scenario.

The Department has a goal to harness the vast potential of each student and hone their Management skills to fine perfection during their tenure as a student learner at our MIT Pune campus. We endeavor to make them Nation builders, technocrats and business leaders of tomorrow.

The Eminent and Reputed Professor of Engineering Management and a well-known Teacher Prof. Sudhir N. Rane is the heading the Department of Humanities and Management.

Assessment of Course

The pattern of assessment for all the courses is similar to that of any other Engineering (B.E.) courses affiliated to University of Pune. It normally consists of a written examination of 100 marks with passing required for promotion as 40 marks. For second year courses the examination consist of 50 marks for online examination and 50 marks for written offline examination. For the third year courses it 30 marks for mid semester test & 70 marks for offline written examination .

The assessment is done by Savitribai Phule Pune University (India)

MATHEMATICS

Dr. M. Y. Gokhale
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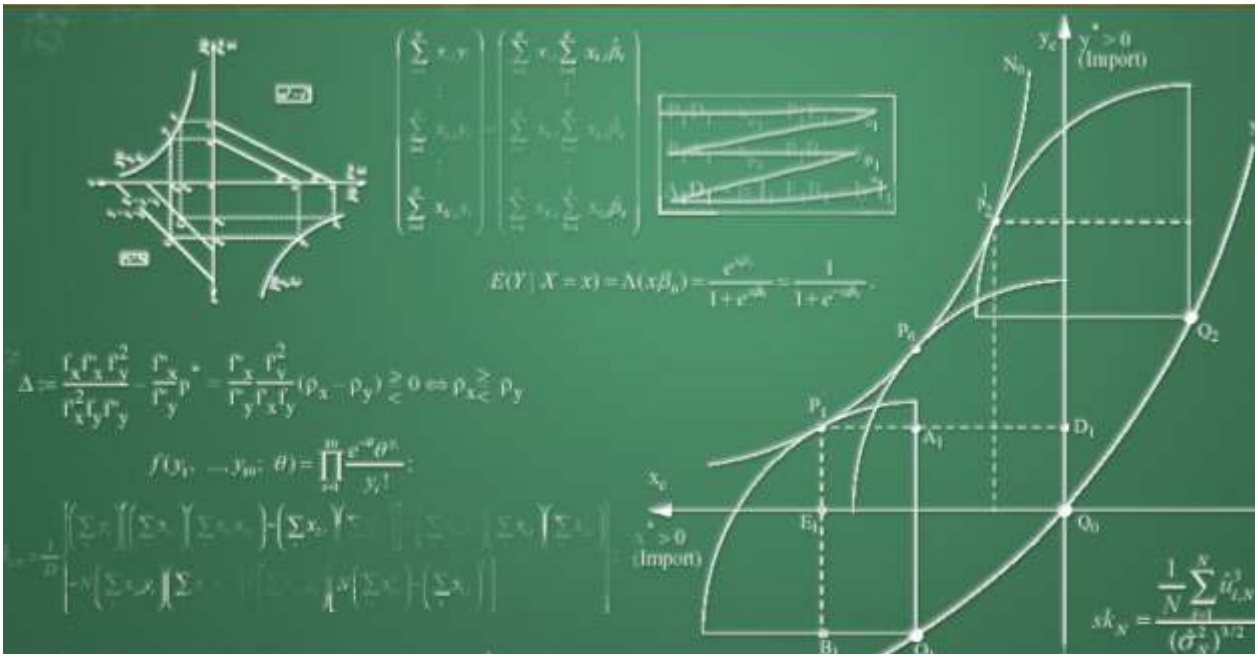
Mathematics is a core subject for all Engineering Disciplines. It serves as a valuable tool for research and development in all branches of Engineering. In today's world of rapidly advancing technology, mathematical techniques are being increasingly applied in various branches of Engineering. Numerical Analysis. Operations Research, Discrete mathematics are a few areas currently popular with engineers and computer scientists.

The department is committed to the promotion of Mathematics in all its aspects. The aim is not to merely make the student proficient in computational skills, but also to develop in him/her an aptitude for logical reasoning, analytical ability and precision.

Being only too aware of the utility of the computer. The Department has equipped it self with eight computers for the benefit of students and also to promote research interest amongst the staff. Department also has its own library which can be used by the students of different branches.

The department is headed by Dr. M Y Gokhale, a reputed teacher and author of several text books on Engineering Mathematics and Computational Methods. He has more than 35 years teaching experience with research publication at national and International levels to his credit. He is also a reviewer of many research papers for various and reputed journals and external Reference for Ph.D examination of different universities. He has delivered many guest lectures at various Conferences/Workshop. He has guided eight students for their Ph.D under Pune University, out of which six students have been awarded their Ph. D. degree.

Dr. Neeta Kankane with more than 25 years of teaching experience has coauthored text books on "Discrete Structures and Graph Theory" for Computers and IT Engineering students. She is the member of Board of Studies in Engineering Science (Pune University) and the members of faculty of Engineering, University of Pune and Solapur University. She is a recognized guide for Ph.D and M.Phill. under Pune University. At present she is guiding two research student for their Ph.D degree and three students have completed their M.Phill degree under her guidance.



PHYSICS

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Associate Professor and Head of Department
M.Sc. (Physics with specialization in
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Ph.D. (Radiation effects and Iodination of Polymers)
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Introduction

Physics, which is sometimes called as Natural Philosophy, is a science of matter, energy & their interaction as experienced in our universe. The disciplines like chemical physics, biophysics, mathematical physics, geophysics, astrophysics & engineering physics clearly indicate the all-inclusive nature of physics. For a technocrat or an engineer, physics in just like a 'window' through which he can observe nature in a scientific manner.

The Course Offered

The Department runs a course of Engineering in Physics for 100 marks at first year level. The course has modules relevant to engineering such as Optics, Lasers, Quantum Physics, Acoustic engineering, Solid State Physics, Superconductivity, and Nanotechnology etc.

FE Physics Lab

The course has a lab component where students perform eight experiments, each in every week. The department has established FE Physics lab admeasuring 133 sq. meter, which is well equipped with all the required equipment . The department is also actively engaged in giving academic help for SE to BE projects and seminars as well as providing background of Physics as well as few experimental facilities for making ROBOTS for national ROBOCON contest.

Research in the Department:

Radiation Physics Research Lab

With the financial support of BCUD (University of Pune) and the MIT, Department has established Radiation Physics Research Lab focusing on evaluating effects of high and low energy radiation on polymers and devices.

Achievements

Dr. Narendra L. Mathakari has eight international and two national papers at his credit. He has also presented papers in four international and six national conferences. MIT has awarded him with MIT Foundation Day Award and Ideal Teacher Award.

Departmental Library

The departmental library has all required references (81 titles and 213 copies). The library is well responded by FE to BE students.

Science Society

In year 2011, with the initiative of Dr. Narendra L. Mathakari, Science Society has been established.

For more details long on : www.mitpune.com

DEPARTMENT OF MANAGEMENT SCIENCES AND RESEARCH (MBA)

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Vision
To be a center of excellence and global repute in the field of Management education and research.

Mission
To impart value-based education in the field of management sciences with an aim of creating global leaders and entrepreneurs.

Degree offered	Specialization	Duration	Intake	Entry requirements
Master in Business Administration (MBA)	Marketing, Finance, HR, Operation System & IB	2 years	60+ 9 seats	Any Graduate + CMAT/CAT/JMET/MAT/XAT/ATMA norms

MIT Department of Management Sciences & Research (DMSR) was established in 2007

Courses are affiliated to University of Pune bearing the no. is CA/ 3211 Dated 31/07/07 which is recognized by A.I.C.T.E New Delhi as the no bearing F-No. 740-89-234(E) /RC 194 Dated 14/5/07 & Govt . of Maharashtra having a 69 intake capacity {60 plus 9 (Nine students' Supernumerary quota for foreign PIO and CIW - children of Indians working in gulf and Southeast Asia)}.

Two-year (Four Semesters), Full time University of Pune affiliated program with specializations in Marketing, Finance, HR, Operations, Systems and IB.

MAEER's MIT DMSR, Pune, under the Master of Business Administration program, successful l y prepares students. The program offers a broad based interactive curriculum and training that will equip them for decision-making responsibilities in organizations. The faculty at MITDMSR employs a mix of lecture, discussions, cases, technology mediated learning, field projects, and simulations strategies to ensure that the students master not only the basic tools and theories of business, but can apply business know-how to real professional life situations.

Departmental Goals

1. To strive to impart value-based education in the field of management sciences.
2. To provide responsible & effective managers and entrepreneurs to the nation.
3. To make sustained efforts to prepare our students to ably face the challenges posed by globalization and changing ways the industries function.
4. To enable the students to have hands-on experience of practicing management and learn valuable lessons in leadership and teamwork.
5. To relentlessly endeavor to unleash the students' potential to the fullest and transform them into dynamic leaders.

Learning Model

The entire schedule is planned to optimize learning. Classroom sessions include lectures, case studies, and presentations. Eminent personalities from the industry deliver lectures every week.

Each student undergoes a practical training for a period of not less than 50 days.

Program Structure

This is a two-year program comprising of four semesters with Choice-Based Credit System(CBCS) and Grading System. This is a fulltime course affiliated to University of Pune.

Eligibility & Admission Procedure

As decided by Directorate of Technical Education (D.T E.), Maharashtra State.

CENTRALISED INDUSTRY ACADEMIA COLLABORATIONS & PLACEMENTS

Prof. P. Subrahmanyam
B.Tech., MBA
Director, Industry Academia
Collaborations (MIT), Pune
Ph.: +91-20-30273505
Email: director_iac@mitpune.edu.in

Prof. Hemant S. Mali
B.Com., MBA
Training & Placement Officer,
(MITCOE), Pune
Ph.: 91-20-30273675
Email: hemant.mali@mitcoe.edu.in

Prof. Anil Kumar Pacha
MBA HR
Assistant Training &
Placement Officer
(MITAOE), Alandi, Pune
Ph: +91-20-30273400
Email: anilpacha@gmail.com

All our efforts are aimed at acquiring best possible employability and entrepreneurship skills by our Students. Accordingly we are organizing various Training Programs both by Industry experts as well as Professionals, to equip the Students with soft-skills, Interview techniques, Group Discussion skills, Personality Development skills, Written / Aptitude / on-line test skills etc. This systematic way of molding has clearly reflected in maximizing Placements of our Students in various top MNCs/ Foreign Companies/ Corporates in India and abroad.

It is a matter of great pride that our Placement records are one of the highest among various top Engineering Colleges and even at par with IITs & NITs.

Moreover our Entrepreneurship Cell tries their level best to sow the seeds in this regard through successful entrepreneurs and very encouraging response from the Students is seen for the same. As a result, some of the students have established their own businesses and are well settled.

In the present era of globalization, **close and long -term association with the Industry, Research, Patents, Consultancy, Entrepreneurships, MoUs, Certifications, Accreditations, Faculty Development Programs, live Projects and High Academic performance** of the students are of paramount importance to any reputed Technical Institute.

Considering this aspect, MIT, Pune has set up a separate Division for Industry Academia Collaborations. Prof. P. Subrahmanyam, person with high academic caliber and vast Industrial experience to his credit, is looking after the various activities, as a Director (Industry Academia Collaborations). He is assisted by Prof. Hemant Mali and Prof. Anil Pacha.

Collaborations with Industry

Twenty nine Multi-National and 'Fortune 500' Companies have signed Collaboration Agreements with us to offer live/high tech projects and imparting practical orientation to the students and faculty, thus shaping future of the graduates.

Innovation Center / Centers of Excellence

Creativity & Innovations are soul of Engineering Technology. Keeping this in mind, world known MNCs such as Amdocs, IBM, M&M and Nvidia have set up their Centers of Excellence / Innovation Labs right on our Campus, to encourage and nurture the Innovative sprit of our Students and Faculty.

Moreover, National level Competitions are held by some of the top corporates / MNCs, to show-case the talent of the Students and increase their level of confidence. These meritorious Students receive very prestigious awards along with hand-some monetary packages given out by Companies.

Training

Besides the high academic standards, Students need to be properly groomed. They are required to be trained and tailored as per the requirement of the current Industry expectations. We train and mold the Students with the help of professionals / Industry experts in Aptitude Tests, Soft-skills / Group Discussions / Interview techniques and Personality Development.

Technical Workshops / Seminars / Faculty Development Programs

Several Faculty Development Programs / Technical workshops / Seminars / Guest lectures by experts in respective fields are organized, during which Faculty & Students develop their skills of presentation and get an opportunity to understand the theoretical knowledge acquired during the academic curriculum and its relevance in the practical field, along with exposure to the latest technologies.

Industrial Visits

The department plays role as a catalyst in organizing number of local, as well as long Industrial tours, to give first hand exposure to the Students on best Industrial practices.

Sandwich Training

MIT, Pune is running an Industry oriented unique 'Sandwich course' in the discipline of Mechanical Engineering for only few selected Students, which helps them in blending of Theoretical and Practical knowledge where by, their potential of employability and Entrepreneurship is enhanced and therefore they are in maximum demand.

Entrepreneurship

Ideally, the sole aim of any Technical Institute is not only to increase the 'employability' of Technical graduates, but also to produce Entrepreneurs. Accordingly, sufficient stress is given in injecting the seeds of the Entrepreneurship in the minds of the budding engineers. Therefore we have established a separate Entrepreneurship Cell to nurture this activity. Numbers of Workshops are organized from time to time on the subject and successful Entrepreneurs keep presenting their success stories etc. All these case studies have a wonderful impact on the minds of the Students and as a result, some of the Students have even established their own businesses and are well settled. We have also signed MoU with an internationally known organization- 'National Entrepreneurship Network', with whose help various counseling sessions are organized for the Students delivered by successful Entrepreneurs.

Career Guidance / Higher Education / Competitive Examinations

Some of the Students feel that single Engineering Degree may not be adequate now a days for their future Career. Therefore, they plan to pursue P.G. and doctorate programs in Engineering as well as Management. Accordingly, Guidance/ Counseling is offered to the pre-final and final year Students to educate and encourage them to opt for Post-graduation / Doctoral Programs in various disciplines in India as well as abroad. Also, various related Seminars and Counseling Programs are organized. We also do organize regularly the guiding and counseling sessions for the Students to prepare them for GRE / GMAT / TOEFL / GATE etc., which helps them to get admission in various well known Universities across the world.

Moreover, in the present highly competitive era, UPSC / MPSC examinations seem to be other but very challenging options before the Students. It has been observed that day by day more and more Students are getting inclined towards these examinations and some have even proved their excellent talent by getting good All India Rankings. For encouraging and guiding such Students in this aspect, we have established a separate cell- "MIT Civil Services Training Institute" (MITCSTI), which has been receiving growing and Overwhelming response, benefitting all the aspirants.

MIT Group Of Engineering Colleges, Pune
(MIT, MITCOE, MITAOE)

List of companies visited for last three years

- AMURA MARKETING
- 3D PLM SOFTWARE
- AAM SERVICES INDIA LTD.
- ACC / TECHPORT
- ACCENTURE
- ACCENTURE ENERGY
- ACELLERE
- ACG WORLDWIDE
- ACI WORLDWIDE (SONE SERVICES)
- ADP INDIA LTD.
- AGS TECHNOLOGIES
- AKER POWERGAS & SUPPLIES LTD.
- AL GHURAIR IRON & STEEL LLC,UAE
- ALD DYNATECH FURNECE PVT. LTD
- ALFA LAVAL LTD.
- ALOHA TECHNOLOGIES
- AMADA INDIA PVT., LTD.
- AMBUJA CEMENT
- AMDOCS
- APLABS
- APOLLO TYRES
- ATIDAN TECHNOLOGIES
- ATLAS COPCO INDIA LTD
- ATOS INDIA
- AUDIENCE SCIENCES
- BARCLAYS CAPITAL SERVICES INDIA
- BASF INDIA LTD.
- BELL ENERGY
- BG GROUP
- BHARAT ELECTRONICS LTD.
- BITWISE SOLUTIONS
- BLUE STAR LTD.
- BOGOLIC SOFTWARE SOLUTIONS PVT LTD
- BOSCH LTD.
- BRIDGESTONE INDIA PVT., LTD.
- BROADRIGE FINANCIAL SOLUTIONS
- BURKHARDT COMPRESSION
- BVG ENGINEERING LTD.
- BYZAN SYSTEMS LTD.
- CADBURY INDIA
- CAIRN INDIA
- CALSOFT INCORPORATION
- CAP GEMINI
- CAPITAL IQ
- CARGOTECH
- CAUSECODE
- CERATIZIT INDIA
- CIPY POLYURETHANES PVT. LTD.
- CLSA TECHNOLOGIES (DREAM)
- CODEWALLA SOFTWARE PVT. LTD.
- COGNIZANT TECHNOLOGIES LTD.
- COLUMBUS IT SOLUTIONS
- COMPUPLAST
- CONTINENTAL AUTO COMPONENTS
- CONVERGYS
- CORBORANDUM UNIVERSAL
- CREDIT SUISSE
- CUMMINS LTD.
- CYBAGE SOFTWARE
- DECOS SOFTWARE
- DELOITTE CONSULTING PVT. LTD. (DREAM)
- DMW CORPORATION
- DODSAL ENGINEERING
- DSM ENGINEERING PLASTICS
- EATON TECHNOLOGIES
- ELITMUS
- EMERSON
- EQ TECHNOLOGIC (DREAM)
- EQUAL EXPERTS
- ERNST & YOUNG
- ESSAR AGC
- ESSAR INVESTMENTS
- EVOLUTIONARY SYSTEMS (EVOSYS)
- EXPAT ENGINEERING LTD
- FASTTRACK
- FAURECIA TECHNOLOGY CENTRE (I) LTD.
- FLEETGUARD FILTERS
- FLUOR INDIA LTD.
- FORD INDIA PVT. LTD.
- GARWARE WALLROPES
- GAURI TECHNOLOGIES
- GENERAL MOTORS
- GEOMETRIC
- GEOMETRIC GLOBAL
- GHARPURE CONSTRUCTION & ENGG.
- GIESECK & DEVIRENT PVT LTD
- GKN DRIVELINE
- GLOBAL LOGIC INCORPORATION
- GLOBAL SOURCING GROUP
- GODREJ
- GODREJ & BOYCE LTD.
- GODREJ INFOTECH LTD.
- GUJRAT STATE PETROLEUM CORPORATION
- HALLIBURTON
- HARBINGER GROUP
- HCL TECHNOLOGIES
- HDFC ERGO GENERAL INSURANCE
- HINDUSTAN ELECTRICITY GENERATION PVT LTD
- HONEYWELL AUTOMATION LTD.
- HYDERABAD INDUSTRIES LTD.
- IBM INDIA LTD.
- ICERTIS
- ICICI HOME FINANCE LTD.
- ICO ASIA PACIFIC
- IDEA CELLULAR LTD.
- IGATE PATNI
- IMAGINATION TECHNOLOGIES
- IMRB ABACUS
- IN BETWEEN IT SOLUTIONS LTD.
- INAUTIX TECHNOLOGIES LTD.
- INDIA BULLS LTD.
- INDIAN ARMY
- INDIGO ARCHITECTS
- INDUSIND MEDIA
- INFINITE TECHNOLOGIES
- INFOSYS TECHNOLOGIES LTD.
- IP INFUSION
- ITC INFOTECH LTD
- ITC PAPER SPECIALITY DIVISION
- ITD CEMENTATION LTD.
- ITS DIGITECH
- JOHN DEERE INDIA PVT LTD
- JP MORGAN CHASE & CO.

- JSW STEEL CO.
- JUBILANT LIFE SCIENCES LTD.
- KIMBERLY CLARK LEVER PVT. ,LTD.
- KIRLOSKAR GROUP OF COMPANIES
- KPIT CUMMINS INFOSYSTEMS LTD.
- KRAFT POWERCON INDIA
- L & T INFOTECH
- L&T (ECC) LTD.
- L&T INTEGRATED SYSTEMS PVT. LTD.
- L&T LTD.
- LAFARGE INDIA PVT. LTD.
- LISTER TECHNOLOGIES
- LOGIQUAD SOLUTIONS LTD.
- LOREAL INDIA PVT.,LTD.
- MAGNETTI MARELLI
- MAHALAXMI INFRASTRUCTURE
- MAHINDRA & MAHINDRA LTD.
- MAHINDRA 2 WHEELERS
- MAHINDRA HINODAY
- MARKETS & MARKETS
- MARS MOLDING
- MEDIAOCEAN
- MERCEDES BENZ INDIA PVT LTD
- MERCEDES BENZ R&D
- MICROSOFT
- MINDTREE
- MORGAN STANLEY FINANCIAL SERVICES
- MPHASIS (AN HP COMPANY)
- MTU ENGINEERING LTD.
- MU SIGMA BUSINESS SOLUTIONS LTD.
- NEEYAMO
- NESA RADIATION
- NIHILENT TECHNOLOGIES
- NITCO LTD.
- NTT DATA
- NVIDIA CORPORATION (Dream)
- OIL INDIA LTD.
- OIL NATURAL & GAS CORPORATION
- ONIDA (MIRC ELECTRONICS LTD.)
- OPUS SOFTWARE SOLUTIONS PVT., LTD.
- ORACLE FINANCIAL SERVICES SOFTWARE LTD.
- PACKSOL MACHINE TOOLS
- PACKT PUBLISHING (WHITE APPLES)
- PERSISTENT SYSTMS LTD.
- PIAGGIO VEHICLES
- PLASTIC OMNIUM VARROC PVT LTD
- POONAWALLA GROUP
- PRATIBHA GROUP
- PRECISION SEALS MANUFACTURING
- PRESCIENT COLORS LTD.
- PUBMATIC
- PUNJ LLOYD
- QUICKHEAL TECHOLOGIES
- QUINNOX
- QUINSTREET SOFTWARE (I) PVT. LTD.(DREAM)
- RAKUTEN / VERTEX SOFTWARE
- RAYMOND ZAMBAITI LTD
- REDKNEE TECHNOLOGIES
- REX POLYEXTRUSION
- RIETER INDIA LTD.
- RISHABH INSTRUMENTS PVT. LTD.
- SAINT GOBAIN
- SANDVIK COROMANT INDIA LTD.
- SANMAR GROUP
- SASKEN TECHNOLOGIES
- SAV EN INDIA
- SEIFTINFOCOMM
- SEJAL CONSULTANCY SERVICES
- SEMSYS PVT. LTD.
- SHANDONG HEAVY INDUSTRIES LTD.
- SHAPOORJI PALLONJI & CO. LTD.
- SHINI PLASTICS
- SIEMENS SOFTWARE PVT. LTD.
- SIGMA SOFT SOLUTIONS PVT. ,LTD.
- SML ISUZU (SWARAJ MAZDA)
- SNS TECHNOLOGIES LTD.
- SOKRATI
- SONE SERVICES (I) PVT. LTD.
- STAY IN FRONT
- STERIA
- SUBBEX
- SUDARSHAN CHEMICALS
- SUNGARD TECHNOLOGY SERVICES
- SYNECHRON LTD.
- SYNTEL INCORPORATION
- TALLY SOLUTION PVT.LTD
- TATA CONSULTING ENGINEERS LTD
- TATA MOTORS LTD.
- TATA TECHNOLOGIES LTD.
- TAVISCA SOLUTIONS LTD.
- TEACH FOR INDIA
- TECH MAHINDRA
- TERADATA INDIA PVT. LTD.
- TEXITY SYSTEMS PVT. LTD.
- THERMAX LTD
- TIBCO SOFTWARE
- TIME TECHNOPLAST LTD
- TOYO INDIA
- TOYOP RELIEF
- TRANSPERENCY MARKET RESEARCH
- TVS MOTORS
- UDHE INDIA LTD.
- UHP TECHNOLOGIES
- VARROC POLYMER LTD
- VERTEX SOFTWARE
- VIDEOCON INDUSTRIES
- VISTEON TECHNOLOGIES
- VOLKSWAGEN
- VOLTAS
- WEATHORFORD OIL TOOLS
- WEBONISE LABS
- WHEELS INDIA LTD
- WHIRLPOOL OF INDIA LTD.
- WIKA INSTRUMENTS INDIA PVT. LTD (alloted Dream)
- WIPRO TECHNOLOGIES
- WMS GAMING SOLUTIONS
- WOLTERS KLUWER
- XORIANT SOLUTIONS PVT. LTD
- YARDI SOFTWARE
- YODLEE INFOTECH
- ZENSAR
- ZENSAR TECHNOLOGIES LTD.
- ZOOMLION
- ZS ASSOCIATES
- ZTE CORPORATION
- ZYCUS

RESEARCH & DEVELOPMENT AT MIT

Prof. Dr. Debajyoti Mukhopadhyay
Dean (R&D), Ph.D. (Computer Science), M.S. (USA), DCS (UK), FIE, FIETE, SMIEEE (USA), SMACM (USA), C Engg, SMCSI, MIMA
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Dr. S. Radhakrishnan
Professor Emeritus and Director,
Research Development & Innovation
Maharashtra Institute of Technology,
Pune

Prof. Dr. Debajyoti Mukhopadhyay is the Dean (R&D) of MIT Group of Institutions and Head of IT at Maharashtra Institute of Technology, Pune. He is Distinguished Adjunct Professor at Curtin University, Australia and Monarch Business School, Switzerland.

His research areas include E-Business, Web Search Engines, Web mining, Web-page Prediction Models, Agent Technology, Middleware functions of distributed systems. He has contributed 150 articles in International referred journals, conference proceedings and as research reports published at multiple places. He has recently been invited to George Mason University as a Visiting Scholar in their Center for Secure Information Systems at Fairfax, Virginia, USA for research collaboration.

A large number of faculties are engaged in R&D activities. These include solar energy; advanced materials, cement concrete composites and structures, structure development in polymers, blends and composites, nano-materials and nano-composites, modeling and simulation, artificial intelligence, neural network, reactor design etc.

Different aspects covered in the area of Chemical, Petroleum and Petrochemical Engineering are: enhanced oil recovery, studies of geological sedimentary structures, spillage, bio-fuels, modeling and simulation of distillation.

To fulfill the need of carrying out Research, Development and Innovation work, MIT center of Excellence for Research & Innovation (MITCERI) is established on MIT Pune campus. MITCERI organize national and international conferences, workshops on research methodology, guest-lectures delivered by eminent researchers. MIT organized in collaboration with Curtin University, Australia the CUBE 2012 International Information Technology Conference and Exhibition in Pune. This conference had workshop on Ph.D Research Training Workshop on 2nd September 2012 and multiple-track research paper presentation during 3-5 September 2012. CUBE 2012 had attracted nearly 450 paper submissions from 18 countries and after going through review process, the proceedings of the selected papers were published by ACM.

Important event organized by MITCERI on MIT campus was a One Day Workshop on Research Training and Paper Writing on 5 January 2013. It was meant for the faculty of engineering of MIT Group however there were participants from some other engineering colleges too. At MITCERI, the final year students are guided to carry on their BE Project on current research topics and many are published in the form of research papers in International Journals and conferences. A large number of such publications in the last three years are indexed in the digital libraries of ACM, IEEE and Springer Link. Some projects have won "TCS Best Project Award," Best Paper Award at CUBE 2012 and again at CUBE 2013 International Conference.

Prof. Dr. S. Radhakrishnan is leading the Research Development and Innovation activity at MIT, Pune in the area of Polymers, Petrochemical/ Petroleum, Materials Science and Engineering. He is known for his contributions in area of Polymers blends and composites. He has published more than 160 technical papers and filed 38 patents with 6 US patents and 3 Euro patent being granted. His work on electro active conducting polymers and their applications in smart coatings, sensors, actuators is well cited in the high impact journals. Five of his publications were in Science Direct TOP25 for the respective years. One of his papers was ranked 7th in Materials Physics and Chemistry Science Direct Top 25 for full year 2014. He has more than 4050 citations for his papers. He has been acclaimed in the area of nanotechnology and polymer nanocomposites with contributions in international journals and chapters in books. He has guided 16 Ph.D. students and 10 ME/M.Tech projects. He is the recipient of Materials Research Society Medal and Scientist of the year award of NCL Research Foundation for 2005. He has been awarded Fellow Maharashtra Academy of Science, Fellow SAEST, Fellow Indian Plastics Institute, Member IOP London. He is Vice President for Maharashtra Academy of Science and Chairman Indian Plastics Institute (Pune). He is Adjunct Distinguished Scientist at Center for Materials for Electronic Technology (C-MET) Pune. He is also founder member for Science & Technology Forum as well as Polymer Group at MCCIA, Pune.

Dr.S.Radhakrishnan visited in 2014, University of Akron, University of Delaware, University of Cincinnati USA, where he delivered special seminars on Conducting Polymers and Nanomaterials. He was given medal of honor by Polymer Science & Engineering at University of Akron. He has also a joint patent filed with Nanoworld Laboratory, University of Cincinnati, USA. During 2013- 2014 he has delivered 5 invited talks at national /international conferences: IPST 2013,ADNAM2013, APA 2014, Polyxplore 2014 and others. He has filed two patents in 2014. He is actively engaged in interdisciplinary research with Mechanical Engineering, E&TC, MITCOE, MIT College of Pharmacy for applications of functional polymers and nano-materials.

MIT- GCELL- GRIEVANCES REDRESSAL MECHANISM

The management of the college takes almost care to practice transparency in governance and maintain a free and fear free atmosphere on the premises while focusing on value based education and academics. Under the guidance of our honorable founder Dr. Dr. Vishwanath D. Karad. We try our best to imbibe best human rights practices ethical and moral values.

UGC, DTE, Govt. of Maharashtra and as per guidance of AICTE, Savitribai Phule Pune University following cells have been established in the college. Any grieved stakeholder may approach the committee for grievance redressed.

GENERAL GRIEVANCES

Dr. Sanjay Deshmukh
Member Secretary
Email: sanjay.deshmukh@mitpune.edu.in
Ph.: 020 30273503

As per AICTE regulations 2012 dated 25 May 2012 an institute level grievance redressed cell is established member secretary coordinates and maintains records of the activities. In addition, Savitribai Phule Pune University has also established a general grievance committee. Its details are available with the University.

ANTI-RAGGING CELL

Dr. P. S. Joshi
Member Secretary
Email: pramod.josh@ mitpune.edu.in
Ph.: 020 30273496

Following Notification F. N. 37-3/legal/AICTE/2009, dated 01/07/2009, under section 6(a) and 6(c) UGC anti ragging act and Maharashtra Prohibition of Ragging Act guidelines available on UGC website, an Antiragging Committee is established by the college. The committee takes measures to prevent any act of ragging and also to address any relevant issue brought to its notice.

In order to maintain a congenial atmosphere the Antiragging squad visits various places to curb any ragging related issues.

WOMAN ANTI-HARASSMENT CELL

Chairman
Prof. Jyoti Pandit
Email: jyoti.pandit@mitpune.edu.in
Ph.: 020 30273504

With reference to the DTE, Govt. of Maharahstra, letter no. 2012/6075 dated 31 July 2015, AICTE letter F. N. 01-29/CM/AICTE/2012, dated 1st January 2013 and DTE RO Pune/VV/admission/2014/2113 dated 21/05/2015 concerning harassment of women at workplace this committee is functional in the college. It organizes various events such as legal, awareness programs, empowerment etc. on the campus for the benefit of students and staff. This committee addresses any grievance brought to its notice regarding harassment of women at workplace on the campus.

MAHARASHTRA ACT No. XXXIII OF 1999[1].

[THE MAHARASHTRA PROHIBITION OF RAGGING ACT, 1999.]

(This Act received the assent of the Governor on the 13th May 1999; assent was first published in the *Maharashtra Government Gazette*, Part IV, Extraordinary, on the 15th May 1999.)

An Act to prohibit ragging in educational institutions in the State of Maharashtra.

WHEREAS it is expedient to enact a special law to prohibit ragging in educational institutions in the State of Maharashtra; It is hereby enacted in the Fiftieth Year of the Republic of India as follows :—

1. (*1*) This Act may be called the Maharashtra Prohibition of Ragging Act, 1999. Short title and commencement.

(2) It shall come into force on such *date as the State Government may, by notification in the *Official Gazette*, appoint.

2. In this Act, unless the context otherwise requires,— Definitions.

(*a*) "educational institution" means and includes a college, or other institution by whatever name called, carrying on the activity or imparting education therein (either exclusively or among other activities); and includes an orphanage or a boarding home or hostel or a tutorial institution or any other premises attached thereto;

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[1] For Statement of Objects and Reasons, see *Maharashtra Government Gazette*, Part V-A, Extraordinary, dated the 7th April 1999, p. 169.

* 1st June 1999, *vide* G. N., H. & T.E.D., No. Sankirna. 1098/(133/98)/UNI-3, dated the 19th May 1999, published in *Maharashtra Government Gazette*, 1999, Part IV-B, Extra, No. 301, p. 2.

(*b*) "head of the educational institution" means the Vice-Chancellor of the University, Dean of Medical Faculty, Director of the Institution or the Principal, Headmaster or the person responsible for the management of the educational institution;

(*c*) "ragging" means display of disorderly conduct, doing of any act which causes or is likely to cause physical or psychological harm or raise apprehension or fear or shame or embarrassment to a student in any educational institution and includes—

(*i*) teasing, abusing, threatening or playing practical jokes on, or causing hurt to, such student; or

(*ii*) asking a student to do any act or perform something which such student will not, in the ordinary course, willingly, do.

Prohibition of ragging.

3. Ragging within or outside of any educational institution is prohibited.

Penalty for ragging.

4. Whoever directly or indirectly commits, participates in, abets or propagates ragging within or outside any educational institution shall, on conviction, be punished with imprisonment for a term which may extend to two years and shall also be liable to a fine which may extend to ten thousand rupees.

Dismissl of student.

5. Any student convicted of an offence under section 4 shall be dismissed from the educational institution and such student shall not be admitted in any other educational institution for a period of five years from the date of order of such dismissal.

Suspension of student.

6. (*1*) Whenever any student or, as the case may be, the parent or guardian, or a teacher of an educational institution complains, in writing, of ragging to the head of the educational institution, the head of that educational institution shall, without prejudice to the foregoing provisions, within seven days of the receipt of the complaint, enquire into the matter mentioned in the complaint and if, *prima facie*, it is found true, suspend the student who is accused of the offence, and shall, immediately forward the complaint to the Police Station having jurisdiction over the area in which the educational institution is situated, for further action.

(*2*) Where, on enquiry by the head of the educational institution, it is proved that there is no substance, *prima facie*, in the complaint received under sub-section (*1*), he shall intimate the fact, in writing, to the complainant.

(*3*) The decision of the head of the educational institution that the student has indulged in ragging under sub-section (*1*), shall be final.

Deemed abetment.

7. If the head of the educational institution fails or neglects to take action in the manner specified in section 6 when a complaint of ragging is made, such person shall be deemed to have abetted the offence of ragging and shall, on conviction, be punished as provided for in section 4.

Power to make rules.

8. (*1*) The State Government may, by notification in the *Official Gazette*, make rules for carrying out all or any of the purposes of this Act.

(*2*) Every rule made under this Act shall be laid, as soon as may be, after it is made, before each House of the State Legislature, while it is in session for a total period of thirty days, which may be comprised in one session or in two or more successive sessions, and if, before the expiry of the session in which it is so laid or the session immediately following, both Houses agree in making any modification in the rules or both Houses agree that the rule should not be made, and notify such decision in the *Official Gazette*, the rule shall, from the date of publication of such notification, have effect only in such modified form or be of no effect, as the case may be ; so however, that any such modification or annulment shall be without prejudice to the validity of anything previously done or omitted to be done under that rule.

MIT College of Engineering, Pune

MIT College of Engineering

From the Secretary & Executive Director's Desk

What makes us stand apart is the value based education we offer with a unique blend of science and spirituality.

Unquestionable commitment, incessant diligence, a versatile personality, razor-sharp intelligence along with the smart use of it; are the demands of the twenty first century, more importantly, these are the building blocks of the students of MIT College of Engineering. Driven by their own purposes, they have an insatiable quench to conquer unexplored horizons. MIT College of Engineering, (MITCOE) Pune is a completely exclusive and progressively focused institution that seeks to pay tribute to the spirit of this modern generation. We seek to provide young aspirants this right platform to emerge winners and leaders in the professional world.

MIT College of Engineering took professional shape in MIT's state-of- the-art educational campus in the year 2001 to cater the students in the field of Engineering. It is a legacy of excellence in technical education that we have brought up with college. MITCOE is a state-of-the-art institute designed to bring the best out of its students. We address the specific needs of students in Indian as well as global scenario while endeavoring to meet expectations of industrial world and research fraternity from future engineers. We encourage students to achieve full potential in their career as engineers, researchers and as leaders with a global outlook.

MITCOE has been created out of recognition that our changing world produces situations that require emerging engineers to be equipped with more life skills. Our students take up the new challenges offered by a career in engineering, they in turn, enrich the profession bringing with them the benefits of their own life experiences. A highly competent faculty, state-of-the-art laboratories, computing facilities and adequate campus amenities have contributed to create the right atmosphere for the development of competent global citizens to serve the nation.

It is a matter of great pride and privilege to be the Executive Director of such a unique institute. In the last thirteen years we have progressed well ahead and will continue to do so in future. I would like to assure here that we are well directed and well focused on excellence in technical education. As an endorsement of our commitment to quality education, we were awarded with ISO 9001:2000 Quality Certification which is upgraded to ISO 9001:2008 certification. MITCOE has giant MoUs with renowned multinational & prestigious national companies for application of knowledge in various disciplines; in addition to this MITCOE has collaborated with various Universities abroad and has signed MoU with University of Venice Italy for exchange of faculty and students as well as for Machine Intelligence Research lab establishment as an extension of MIR lab USA for research activities.

We have some academic alliance with few industries also.

I have no doubt that our students would attain high levels of educational and professional achievements.

Prof. Dr. Mangesh T. Karad
Secretary & Executive Director,
MAEER's MIT Group of Institutions

From the Principal & Vice Principal's Desk

I welcome you to MIT College of Engineering with pride. It is an honor and a privilege to be the Principal of MITCOE. Catering to more than 3400 students, MITCOE is considered among the best and most sought after colleges in Pune city. We feel proud to provide quality education by equipping our students with skills, confidence and a positive approach with an all-round development

MIT College of Engineering established in 2001, has come to be known as the destination of choice for aspiring Engineers throughout India. A combination of the futuristic vision, meticulous planning and abiding commitments, are the hallmarks of all MAEER ventures and, is the key to this position of eminence. We draw our inspiration from our Founder President, Prof. Dr. Vishwanath D. Karad, himself a professional Engineer par excellence and a pioneering proponent of combining spirituality with Science.

Technical Education is the backbone of any nation and is the stepping stone for a country to move into the niche of a developed nation. We focus to empower students with sound knowledge, wisdom, experience and training both at the academic level of Engineering and in the highly competitive global industrial market.

Our Hon. Prof. Dr. Mangesh T. Karad, believe that along with excellence in teaching and learning, research and innovation is the key for future development.

Education is not an act of acquiring knowledge but learning a skill to lead life and forming one's personality. This is an ennobling process of growth. I can boldly say that we have excelled in every initiative that we undertook and we have stood together in facing the challenges in realizing quality education. In all this, we have made every effort to be sensitive and compassionate to the marginalized and the people in need.

At MITCOE, students and staff truly believe that nothing is impossible and that is the secret of MITCOE's success.

My best wishes to all.

Dr. M. S. Nagmode
Principal-MITCOE

It gives me immense pleasure in welcoming you all to the MIT College of Engineering, Pune. We, the faculty, staff and administration at MITCOE will work for producing technologically superior and ethically strong engineers for the country and the world with a purpose to serve the society & mankind. We, at MITCOE, would like to encourage all students to thrive for the best to make them knowledgeable in their relevant branches of engineering.As a result of our size, we are committed to focus on the needs of each individual student and aim to nurture each student and ensure their journey at MITCOE is a successful and life-enhancing experience. We strive for excellence in what we do, the Institute is constantly making endeavor's to scale new heights by developing synergy between academic knowledge, technical skill set in line with industry needs, high moral values and sensitivity to the environment and the nation.

The students here have a wide range of choice of courses from the traditional branches like Civil, Mechanical to the Hi-tech branches like Electronics, Computer & IT etc. The departments are aesthetically designed in modern building blocks to ensure high degree efficiency in the teaching / learning process and the entire environment is conducive and ideally suited for any kind of academic activity.

Our College has created many students with Pune University Ranks in the past. Beside academics, students are also encouraged to take part in extracurricular and co-curricular activities and many of our students have brought laurels to the Institution. Hard work, effort and commitment from students, combined with our dedication to excellence, experienced staff and world class facilities mean students have the best chance to reach their full potential at MITCOE.

I feel happy and delighted to welcome our incoming students and my best wishes for their brilliant academic career at MITCOE.

Dr. Ramachandra V. Pujeri
Vice Principal-MITCOE

MIT College of Engineering

Vision
To empower Young Generations for substantial contribution to economical, technological and social progress of the society.

Mission
To be globally, Socially conscious institute of research and innovation with an excellence in professional education to take up the challenges of change for benefit of the society.

Education is simply the soul of a society as it passes from one generation to another.

About MIT College of Engineering, Pune

MITCOE (ISO:9001-2008 Certified), is situated in a serene part of the spectacular yet quiet MIT Campus at Kothrud, Pune, INDIA.

Healthy competition among the students is another tool that is used widely to let students excel themselves and to identify leaders from amongst them. Involvement of industry professions in the development of students is another area where our college is focusing with considerable success. We recognize that merely imparting the chalked out syllabi education will make MITCOE just another college. We therefore ensure constant intellectual challenges by taking up in-house and industry based Research Projects in many leading cutting edge technologies of relevance. Further grooming of students takes place with a number of co-curricular programs including soft skill development, additional technical skills with the participation of renowned professionals from industry and business. Finally to make them complete individuals, extra-curricular activities such as Sports and Arts are encouraged.

To ensure our students are amongst the best placed professionals in the industry, the best contributors to the society, practicing the best of human values we take utmost care and deliver our best.

Training and placement department is actively involved in recruiting out students in highly reputed MNCs and National companies with salary package of 10 lakhs p.a. approximately.

Ph. D. Research Centre

- Electronics and Telecommunication Engineering
- Mechanical Engineering

Infrastructure

A state-of-the-art infrastructure of international standards has been developed for each discipline of study that goes far beyond the stipulated requirement. We have very well planned laboratories built around a modular concept that stimulates a near industry environment. Our IT infrastructure, comprising nearly 1100 PCs and three state-of-art servers backed by professional System managers, is at par with the best in the country. With round the clock web access, our students can reach globally for enhancement of their knowledge and career.

Faculty

A highly qualified and experienced faculty complements this excellent infrastructure. It comprises of professionals from both industry and academics, providing students glimpse of how their theoretical knowledge is applied to real-life business and industry problems.

Co-Curriculum Programs

We recognize the fact that all-round personality development is the key to success in professional life of an engineer. We offer our students a number of options to develop and enhance their soft skills in languages, communications, presentation and teamwork. Additional programmes for acquiring specific technical skills / knowledge are conducted to suit their specific interests. Besides they are periodically advised to focus on subjects that will increase their overall expertise as an engineer.

Courses

Degree Courses	Intake
• Electronics & Telecommunication Engineering	120
• Computer Engineering	120
• Information Technology (Ist Shift)	120
• Information Technology (IInd Shift)	60
• Mechanical Engineering (Ist Shift)	120
• Mechanical Engineering (IInd Shift)	60
• Civil Engineering	60

Post Graduate Courses	Intake
• Masters in Electronics and Telecommunication (VLSI & Embedded System) (Ist Shift)	18
• Masters in Electronics and Telecommunication (VLSI & Embedded System) (IInd Shift)	18
• Masters in Information Technology (Ist Shift)	18
• Masters in Information Technology (IInd Shift)	18
• Masters in Mechanical - Heat Power Engineering	18
• Masters in Computer Engineering	18
• Masters of Business Administration (Ist Shift)	60
• Masters of Business Administration (IInd Shift)	60

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The administration of justice is the firmest pillar of education.

Administration

The administration at MIT College Of Engineering plays an important role in the operation and management of the learning institute. It ensures support to develop and execute various beneficial programs and courses for students while also overseeing the operation of the educational organization. The office has a wide range of daily job responsibilities that includes managing teachers and faculty, developing and leading training programs, preparing annual budgets, allocating funds appropriately, conducting exams , maintain students and faculty records.

It also handles the procedural matters of Directorate of Technical Education, Department of Higher and Technical Education, All India Council for Technical Education and Savitribai Phule Pune University.

Headed by Mr. P. N. Bhalerao the office works in cohesion with the other departments to achieve the objectives of the management and trust. This section is the backbone of the institute.

Departments

- Electronics & Telecommunication Engineering
- Computer Engineering
- Information Technology
- Mechanical Engineering
- Civil Engineering
- Core Engineering & Engineering Sciences
- Master of Business Administration (MBA)

ELECTRONICS & TELECOMMUNICATION ENGINEERING

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Vision

To become a nationally leading department of academic excellence building upon the culture and the values of universal science and contemporary education, and a centre of research to develop our students technologically superior and ethically strong.

Mission

To create an environment that shall foster the growth of intellectually capable, innovative professional who can contribute to the growth of technology and harness it for the welfare of the nation and mankind.

Degrees offered	Duration	Intake	Entry requirements
B.E. - Electronics & Telecommunication Engineering M.E. - VLSI & Embedded Systems Ph.D. - Electronics and Telecommunication Engineering	4 years (B.E.) 2 years (M.E.)	120 seats (B.E.) 36 seats (M.E.)	B.E. - H.S.C. + JEE. (Mains) M.E. - B.E/B.Tech., (GATE) Ph. D. : As per Pune University Norms.

Introduction

MIT College of Engineering aims at creating a vibrant and stronger India through Electronics and Telecommunication Technology. The Department of Electronics and Telecommunication came into existence in 2001 by the approval of All India Council of Technical Education(AICTE). Since then the department has come a long way and is now regarded as one of the premiere departments of the university. It is equipped with outstanding infrastructure, learned and dedicated faculty members and sincere staff who work with zeal and enthusiasm to provide a vibrant and optimum learning environment to the students and help them to acquire the skills which are required to excel in today's competitive environment.

In order to ensure high standards of education for the students, the department has constantly upgraded itself by adding well-equipped and fully furnished laboratories to supplement the theory courses. The department believes in serious academic pursuit and encourages radical and original thinking which paves the way for creativity and innovative ideas. The qualities inculcated into the students make them not only good engineers but good human beings.

B.E (Electronics and Telecommunication Engineering)

The department conducts four years degree course in 'Bachelor of Engineering' in Electronics and Telecommunication affiliated to the University of Pune.

M.E. (VLSI & Embedded Systems)

Department of Electronics and Telecommunication Engineering also offers this two year, four semester course, approved by AICTE, New Delhi and affiliated to the University of Pune.

Ph.D. (Electronics andTelecommunication)

University of Pune approved Ph.D. research centre in Electronics andTelecommunication.

Hi-Tech Laboratories

MITCOE offers a rock solid infrastructure consisting of the following laboratories :

- Basic Electronics Laboratory
- Electronics Devices & Circuits Laboratory
- Electronics Laboratory
- Power and Projects Laboratory
- Microprocessor Laboratory
- Communication Laboratory
- Computer Laboratory1
- Computer Laboratory 2
- VLSI & Embedded system Laboratory
- Research and Development Laboratory

Each laboratory is set-up on the work bench concept where each bench is totally equipped with all the necessary setup and measuring devices. Each laboratory also has a web enabled PC for instant access to the internet. All the latest versions of softwares like Tanner, Multisim, MATLAB, C & C++ and Xilinx along with ModelSim are regularly used in various laboratories.

Departmental Library

Apart from the main library of the Institute, the department also has its own well developed library comprising with a collection of several books/ journals/ magazines. In addition, Reference Books and other informative resources are also made available. Department Library has 710 total numbers of books. Also the library is equipped with DVDs & CDs of different subjects.

About the Faculty

At MITCOE, we believe that the faculty plays a fundamental role in the development of students. Our faculty has a harmonious blend of academic and industry back ground. The faculty keeps pace with the latest global developments by attending seminars, conferences, workshops and value addition programs.

The faculties are grouped under the following technology heads :

- Communication
- VLSI and Embedded Systems
- Signal and Image Processing
- Electronics Design

Events

The Department conducts various events which include workshops, competitions, expert lectures of industry people and well known faculty members in their expert areas and various exhibitions such as project exhibitions. During the last academic year we conducted around 20 expert lectures by eminent personalities from different areas. Around 5 Industrial visits were arranged for students throughout the year to enhance their practical knowledge. Various workshops are conducted for the students to facilitate additional knowledge of a particular subject. To enable students for sharing their technical skills and innovative ideas we have "Kretz", a student's technical Magazine. In addition, we have student chapters like IEEE, IETE to explore the student's growth in technical skills. Also, we have non-conventional energy forum and value based education forum for students development.

Research Work

Electronics and Telecommunication Department of MITCOE is a recognized Ph.D. Research centre affiliated to University of Pune. The department is actively engaged in research areas ranging from practical implementation to theoretical investigations for the various fields like Speech processing, Signal processing in Wireless Communication, Multi Antenna System Signal and Video Processing, Embedded and VLSI system design, Video processing, Image Processing, Wavelets and Biomedical fields.

The Institute has initiated activities for research and development in relevant areas of VLSI and Embedded Systems. The laboratories are equipped with Electronic Design Automation (EDA) tools such as Microwind, Modelsim, Tanner, NIOS-II, Quartus-II, Labview and FPGA trainer kits viz. SPARTAN-II,III, Virtex-4 and Synthesis tool from Xilinx.

The department consistently publishes research work in reputed Journals and International Conferences every year. Frequently new ideas and techniques are patented, based on their research work. The department is equipped with the state of the art experimental and computational facilities for undertaking R&D and consultancy activities in various fields. Major labs where research is conducted are Research and Development lab, VLSI and Embedded system lab, Advanced communication lab.

COMPUTER ENGINEERING

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Vision
To empower young generations for substantial contribution in the field of computer and allied domains for the progress of society.

Mission
To develop outstanding computer engineering professionals who will lead technology and knowledge based industries in the service of society.

Degrees offered	Duration	Intake	Entry requirements
B.E. - Computer Engineering M.E. - Computer Engineering	4 years (B.E.) 2 years (M.E.)	120 seats (B.E.) 18 seats (M.E.)	B.E. - H.S.C. + JEE (Mains) M.E. - B.E./B.Tech, (GATE) Qualified

Course Information

The subjects of this department are designed to develop problem-solving skills. The course thus has immense practical value in designing of hardware and programs in a vast range of application: in pure Sciences, Robotics, Communications, Industrial Management and in Business.

The department has setup laboratories with latest equipment conducting a four year degree course in "Bachelor of Computer Engineering" affiliated to the Savitribai Phule Pune University. Graduates have opportunities to seek employment in roles such as software engineering, business analyst, networked applications developer, solution and enterprise architect, researcher, project leader, process, Client manger and IT educator.

Introduction

The MIT College of Engineering established the Department of Computer Engineering in the year 2001-02. They offer undergraduate 'Bachelor of Engineering' degree in a four year degree course affiliated to Savitribai Phule Pune University. They also offer postgraduate 'Master of Engineering' degree with the focus on the advanced subjects in Computer Engineering.

The curriculum is designed to understand the potential of computation, algorithms, systems, software, architecture and networks and also includes the subjects for Software Engineering Practices. Teamwork, communication skills, an interdisciplinary approach to problem solving and a research attitude are some of the skills that the students develop through various technical and co-curricular activities.

Program Education Objectives (PEOs) (2014-15)

I. Industry-ready and knowledgeable engineers: To prepare graduates to acquire a fulfilling professional knowledge and management practices for employment in industry and postgraduate study in engineering

II. Productive and modern engineers: Develop competence in applying knowledge of mathematics, science, and engineering; enabling graduates to solve engineering problems in a modern technological society as valuable productive engineers.

III. Multifaceted computer professionals: To expose students to various computer engineering areas that broaden their technical depth and breadth enabling them to function on multidisciplinary domains for societal and environmental benefits.

IV. Innovative thinkers and researchers: To provide an individual with an academic environment and to motivate and inculcate innovative thinking and research capability using modern tools and techniques.

V. Ethical Professionals: To instill a sense of socio-economic, professional-ethical responsibility and an ability to communicate and work with team effectively.

Program Outcomes (2014-15)

a. To demonstrate an ability to apply knowledge of mathematics, science and engineering

b. To demonstrate an ability to design and conduct experiments, as well as to analyze and interpret data

c. To an ability to design a system, component, or process to

meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability

d. To demonstrate an ability to innovatively think, visualize and function on multidisciplinary teams

e. To demonstrate an ability to identify, formulate, and solve complex engineering problems

f. To develop an understanding of professional and ethical responsibility

g. To be able to communicate effectively in both verbal and written form

h. To develop an understanding of the impact of engineering solutions in a global, economic, environmental, and societal context

I. To be able to recognize the need for, and will be able to engage in life-long learning

j. To demonstrate a knowledge of contemporary issues such as societal, legal and cultural issues

k. To be able to use the techniques, skills, and modern engineering tools necessary for engineering practice.

l. To demonstrate the understanding of engineering and management principles to manage projects and work individually as in a team, and in multidisciplinary environments

High-Tech Computer Laboratories

MITCOE provides infrastructure with `State-of the-Art` computer laboratories were eight computer labs having 30 PCs are well equipped with latest computer configuration, peripherals and software and one is dedicated for Project and Research work. The laboratories are connected with fiber-optic backbone network with the campus network. Internet facility is provided to the college and a team of three network administrators maintains the network system. Novell Netware 5.1, Windows XP, Fedora 7, MS official XP and Turbo C, Oracle Database Server, Visual Studio, IBM Rational Rose, MATLAB are a few of the softwares used for academics and research work. This year Department of computer engineering collaborated with NVidia and got selected as GPU Education center to encourage students for High Performance Computing and Big Data research.

About the Faculty, Staff and Policy

The department at MITCOE has an experienced team of 29 faculty members. It has strong groups working in the areas of data mining and machine learning, in NLP, Networks (including wireless networks) ,Big Data and in cloud computing. Our faculty attends training programs that cover the latest industry trends in computer engineering and also conduct guest lecturers in their area of expertise.

The department always takes initiative in organizing different technical events, conferences, STTP's workshops, FDP's, Seminars and Guest Lectures time to time so that faculty members, staff as well as students are aware of new technologies and latest trends. In this year we have conducted Conference Fossumit.

Post Graduate Program

Department of Computer Engineering also offers ME Computer program since 2011-12, for two years and four semester approved by AICTE, New Delhi and affiliated to the Savitribai Phule Pune University. Exposure to new technologies and open-source software is given to students by organizing workshops and webinar by the department. Also an opportunity for project internship at various companies is available.

Computer Department Activities at a Glance during last year

1	Papers Published in International Journals	30
2	Seminars/Workshops/Trainings/FDPs Organized	12
3	Funded Research Projects	04
4	Members of Professional Bodies	26
5	MOUs/ Agreements	04
6	Industry Visits	04

INFORMATION TECHNOLOGY

Dr. A. S. Hiwale
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Vision

To create multifaceted IT professionals with a mindset of research and innovation to meet the challenges of technological development.

Mission

Quality Professional Education: To impart quality professional education in the area of Information Technology so as to make them socially responsible citizens.

Innovation : To establish the centre of excellence(s) in emerging areas of Information Technology in collaboration with industry, government agencies and others for sustainable development and growth for showcasing students creativity to the society.

Collaborations : To enhance industry-Institute interaction for analytical and logical abilities development towards team development with awareness of lifelong learning

Degrees offered	Duration	Intake	Entry requirements
B.E. - Information Technology Engineering	4 years (B.E.)	180 seats (B.E.)	B.E. - H.S.C. + JEE (Mains)
M.E. - Information Technology Engineering	2 years (M.E.)	36 seats (M.E.)	M.E. - B.E./B.Tech, (GATE) Qualified

Introduction

Information Systems includes study of systems of human and technical components that accept, store, process, output and transmit information. Thus, Information Technology and Information Systems merge together to deliver the complete IT solution. Last two decades has shown that India has emerged as a pool of knowledge source and the field of Information Technology has contributed enormously to this.

At MITCOE, the IT department trains in developing effective communication skills, leadership qualities, team work and innovative thinking. The department exposes students to diverse academic environments, real life situations and industrial interaction. With a fine blend of industry and academic professionals the department regularly organizes technical Seminars and Workshops for students. The progress of students is evaluated continuously with the help of tests, assignments and mock exams. The staff members regularly upgrade their skills and keeps themselves updated with latest trends and technologies by research work and publishing papers in national and international journals and conferences. Faculty also works on externally funded projects from various agencies as well as industries.

The students are encouraged to participate in extracurricular activities which give them opportunity for overall personality development. Many of our students have participated and have won prizes in paper presentation, project competitions, technical events, sports, fashion shows and various cultural activities. Department also publishes newsletters and E-magazines wherein faculty and students contribute their articles.

Under Graduate Program

B.E (Information Technology)

B.E (IT) is four years duration program, affiliated to Savitribai Phule Pune University, Maharashtra and approved by the All India Council for Technical Education [AICTE], New Delhi. Teaching methodologies include lectures, discussions, practical, tutorials, course assignments, seminars and project assignments etc.

Each academic year is divided into two semesters having an average of 14 to 16 weeks per semester. The academic terms are spread over the duration from July to December and January to June.

Infrastructure

Classrooms: All the classrooms are well equipped with LCD/OHP projectors, with UPS backup to facilitate the usage of audio- video contents during regular presentations for lecture sessions.

Departmental Library:

In addition to books/ journals/ magazines available in the main library of the institute, the department also has a well-developed library of its own. Department Library has 319 titles and 493 books. The departmental library is also equipped with DVDs & CDs of different subjects in the field of Information Technology.

Laboratories and Software:

Department has Hi-Tech excellent Computer Laboratories equipped with 318 PCs with the latest configuration. Laboratories are well equipped with state of the art infrastructure with new hardware, software and with UPS back up. All PCs in each laboratory are networked and have internet facility with 10 Mbps leased line. Novell Netware 5.1, Windows 2007, Red Hat Linux 9.0[Shrike], MS Office XP, Turbo C, TASM, Rational Rose, Oracle 9i database server, Visual Studio. Net series are few of the software which is used for academics and research work. We also have QualNet Simulator for research work and other necessary software.

Co-curricular activities

TESLA is a inter collegiate National level competition which includes various competitions like programming contests, paper presentations, B.E. project competition, Quiz competition, Gaming competition and Tech talks and workshops which provide upcoming engineers with a platform to showcase their talent. This event has received tremendous response from students of colleges from various parts of Maharashtra. Another popular event is the MIT – TechnoGenesis which is a national level innovative project exhibition that draws entries from across the country. Apart from this mega event, department keeps organizing various events throughout the year to prepare students to face the ever changing world of technology by imparting various skills required through these events.

To keep our faculty and students abreast of the developments, we conduct short term training programs, conferences, workshops and arrange invited lectures on advanced topics. International certification programs are run in the department to enhance the skill set of students which helps them to increase their employability quotient.

Research Activities in the Department

Dedicated research laboratory with net enabled core i5 machines equipped with various open source softwares like NS2, LaTex, Scilab as well as licensed softwares like Qualnet, IBM RSA Suit, MATLAB, XILINX etc. are available for project work of the students.

Faculties and students are working in various research domain that include, Wireless Networks, Image Processing, Distributed Systems, Advanced Software systems, Mobile Computing and Advance Information Systems.

Post Graduate Program

M.E. [Information Technology]

To foster research along with the academics in the department, we started the post graduate course in Information Technology. Department is successfully running ME [Information Technology], a two year Post Graduation program with annual intake of 36 students. It started with the intake of 18 students in 2008-09 and in the year 2011, the department got AICTE approval to run PG course in second shift, with the intake of 18 students.

Dissertation work in ME course reveals the depth of work. So far more than 95 PG projects have been completed in the department which is fine blend of in house projects, and industry sponsored projects with emphasis given on research component to enhance the quality of the projects. Some of the students have taken a one step forward in this direction and have filed patent on their ME dissertation work. The students are exposed to the cutting edge technologies and hands on experience through various quality events like STTPs, workshops and invited talks.

Department has research strength in following domains

- Wireless Networks
- Image Processing
- Software Engineering
- Distributed Systems
- Mobile Computing
- Cloud Computing
- Advanced Information Systems

With the expertise and resources available in the Department, students have made their mark in research community by having patent to their credit.

We are committed to impart quality education and nurture the students as professionals with innovative mind set who will serve the Nation to the best of their capability.


MIT PUNE

MECHANICAL ENGINEERING

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Vision

To be one of the leading departments disseminating globally acceptable, effective education & industrial training with relevant research output.

Mission

To create dexterous Mechanical Engineering Professionals to meet global technological challenges through research & innovation for the benefit of society.

Degrees offered	Duration	Intake	Entry requirements
B.E. - Mechanical Engineering	4 years (B.E.)	180 seats (B.E.)	B.E. - HSC+JEE (Mains)
M.E. - Heat Power	2 years (M.E.)	18 seats (M.E.)	M.E. - BE/ B.Tech, (GATE)
Ph.D. - Mechanical Engineering			Ph. D. - As per Pune University Norms

Introduction

The Mechanical Engineering is the most versatile and core branch of engineering comprising of Thermal, Design and Production streams. Fierce competition and complex technological breakthrough has widened the scope of Mechanical Engineering branch. Curriculum of this course is designed to meet current industrial requirements with an emphasis on industrial interaction and applied engineering. The course has been approved by AICTE, New Delhi and affiliated to Pune University.

The Mechanical Engineering Department has received research grants from All India Council of Technical Education (AICTE), Department of Science & Technology (DST), DRDO, University of Pune and other agencies to conduct research in the areas of CAM, Robotics, Energy, CFD and Heat Transfer. Mechanical Engineers are required in industries like Aeronautical, Marine, Automobile, Electrical and Electronics industries, Software/Hardware/IT, Production and Manufacturing Industries, Oil Exploration and Refinery, Foundries and Steel Plants, Power Plants, Agro based Industries, Chemical and Processing Industries, Textile Industries, Fertilizer Industries etc.

Mechanical Engineers have ample opportunities in government sectors like Ordnance factories, Research and Development Organization, Space Research programs, DRDO, State Government. Students are encouraged to appear for the various competitive examinations like GATE, UPSC, MPSC, GRE & TOEFL etc. Mechanical engineers are also engaged in developing software and serving in titans like TCS, INFOSYS, and Persistent Systems etc.

Liberalization, Privatization and Globalization have changed economic scenario and created very good opportunity for the Mechanical Engineers to play a vital role.

Laboratories

Mechanical department has 15 different laboratories to cater to the academic courses and the research work. Few of them are Heat Transfer, Applied thermodynamics, CAD-CAM, Theory of Machines, IC Engine, Fluid mechanics, Dynamics of Machinery, Industrial Fluid Power, Mettalurgy, Mechatronics etc. Approximately of Rs. 2 crores has been invested for setting up these laboratories.

Library

Apart from the main library (including online facility) of the institute. Department has separate departmental library. This contains the books that are commonly required by the students of Mechanical Engineering discipline.

Teaching Learning Process

Qualified faculty members who are assigned with various theory subjects prepare the course plans using the standard format provided by the institute which emphasis on 'learning'. The instructional or lecture delivery of the faculty will be through a set of Educational Technology/ Tools opted by the faculty. The lectures lay emphasis on the following:

- Knowledge content (topics in the curriculum)
- Utility value- application in real life
- Latest developments

The classroom sessions are interactive and encourage the students to think independently and inspire their creativity. The faculty will ensure that the students in the class have assimilated the content projected. High level of discipline will be maintained in the classroom. The faculty members are empowered to curb any disturbance and ensure that the time is used fruitfully. Classroom instructions are supplemented by students' presentations and / or guest lectures by external / internal experts and industrial visits.

Extracurricular Activities

Students get an opportunity to participate in various Technical & Sports competitions at College/ University/ National level viz. ROBOCON, SUPRA,BAHA,etc. College also organizes a National level technical event for students called TESLA. Apart from this students participate in many cultural competitions like Purushottam & Firodia Karandak. The blend of this technical and cultural exposure helps students to develop their personal skills and knowledge.

Post Graduate Program

Master of Mechanical Engineering- Heat Power Engineering is a two year degree course comprising of four semester affiliated to University of Pune (India). The course includes various subjects related with Heat Power Engineering. Students get opportunities to do various projects in different industries. Eminent Professors and Professionals are invited for motivating and inspiring PG students. Industrial and Research laboratory visits are also arranged to expose students to recent developments in the field of Mechanical Engineering. Training & Placement department arranges interviews for placements and internship programmes for PG Students.

Research Work

Mechanical Engineering department has started a Ph.D. Center affiliated to University of Pune from AY 2013-14. Presently mechanical department has 4 Ph.D. faculties and 11 faculties are pursuing their Ph.D. research work.

Various research projects in the field of Heat Transfer, Computational Fluid Dynamics, Vibration, and Design Engineering are currently going on in the department which are sponsored by BCUD & AICTE.

Projects completed: Funded Projects worth Rs. 6.1 Lacs
Projects sanctioned: Rs. 30 Lacs
New Project applications: Rs. 2.65 Crore

At MITCOE, the emphasis is laid on the following major research areas of mechanical engineering

- Design Engineering
- Thermal Engineering
- Automotive Engineering
- Mechatronics
- Energy
- Manufacturing Engineering
- Entrepreneurship
- Robotics
- CAD/CAM

The research streams are in line with the national interest.


MIT - COE


MIT PUNE

CIVIL ENGINEERING

Dr. Ramesh D. Dod
Professor & Head
B.E. (Civil), M.E. (Civil), Ph.D.
(Civil Engg, IIT-BHU), FIE
Phone: (020) 3027 3737
E-mail: ramesh.dod@mitcoe.edu.in

Vision

To create outstanding Civil Engineers of high caliber with sound technical knowledge capable of facing the challenges of the future.

Mission

To encourage innovative and original thinking among the students. To maintain an intellectually challenging with a supportive environment. To impart quality and value based education of global standards.

Degrees offered	Duration	Intake	Entry requirements
B.E. Civil Engineering	4 years	60 seats	HSC+JEE (Mains)

Introduction

We take great pleasure to present this Civil Engineering course for the students. It is core engineering branch which highlights aspects necessary for infrastructure facilities needed in any branch of engineering. The course is structured such that the students understand the latest techniques, equipments, applications and automations. This field practices gives insight to all features of the construction industry. Here the students have the best platform to explore themselves beyond their imaginations and evolve as perfect individuals in all domains of life. The students are guided and motivated professionally to evolve as perfect technocrats to satisfy dynamic needs of the global construction industry.

Curriculum of this course is designed to meet the current industrial requirements with an emphasis on industrial interaction and applied engineering. The course has been approved by AICTE , New Delhi, and Affiliated to Pune University.

This course includes various topics/subjects with which the Civil Engineering is concerned. The Department has good liaison with Industries and various Research Centers, Eminent Academicians, Researchers, and Professionals are invited for motivating and inspiring young minds of future technocrats.

Laboratories

The Department is well equipped with following laboratories.

- Surveying
- Engineering Mechanics
- Basic Civil Engineering
- Testing of Materials
- Geology
- Geotechnical Engineering
- Fluid Mechanics
- Environmental Engineering

Strengths of Civil Department

- Stable, qualified & experienced faculty
- Well equipped laboratories
- Strong teaching learning process
- Good industry –institute interaction

Library

Apart from main library (including online) of institute, the department has separate departmental library which includes books that are commonly required by the students of Civil Engineering Discipline.

MIT College of Engineering

CORE ENGINEERING & ENGINEERING SCIENCES

Dr. Shalini Garg
Head of Department
Ph. D. (Applied Physics)
Ph.+91 20 30273141
E-mail: shalini.garg@mitcoe.edu.in

Introduction

Welcome to the MIT college of Engineering the youngest yet a unique Engineering college of MAEER'S Group of Institute. Here the students have the best platform to explore themselves beyond their imaginations and as perfect individuals in all domains of life. With the mission of MIT college of Engineering is focused to propel the students to exploit the resources to the maximum and evolve as hard core professionals imbibed with the valued principles. The four year course begins with foundation course i.e. First year Engineering. The transition from typical school environment to professional course happens in this one year. The students are guided and motivated for good presentations, technical educations, attendance, punctuality, discipline etc. The First year Engineering course is supported by various sub departments like Mathematics, Applied Science (Physics and Chemistry), Electrical, Civil, Mechanical & Electronics Engineering.

Infrastructure

An excellent infrastructure in terms of well equipped laboratories supported by highly qualified staff provides conductive learning environments. All laboratories have the latest equipment to meet the requirement of syllabus.

About the Faculty

We firmly believe that given a right direction and support, every individual has the ability to excel in their performance. With this line of thought, we as a faculty take up the responsibility of being a friend, philosopher and the guide to students. Hence the faculty becomes an integral part of the students overall development and performance. Most of the faculty members have completed their Ph.D and are actively involved in research work.

During the last academic year, faculty members have published 10 research papers and 6 patents.

Laboratories

The department is well equipped with laboratories as under

- Basic Electrical Engineering Laboratory
- Physics Laboratory
- Chemistry Laboratory

Department has research strengths in the following domain:

- Fluid Dynamics
- Atmospheric Science
- Graph Theory
- Lattice Theory
- Conducting Polymers
- Asymmetric organic synthesis
- Physics of nanomaterials
- Nanophotonics
- Power system protection
- Power Electronics

Major Contribution in research projects	
Name of Faculty	Area of Research & Projects in progress
Dr. P. Kumar	Metrology, Fluid Dynamics, MHD flow, Applied Mathematics, Statistics, Qualitative Technology. Principal Investigator in research project entitled "Hailstorm Management Strategy in Agriculture" funded by Indian Council of Agriculture Research (ICAR) Ministry of Agriculture, Government of India. (3 crore)

MASTER OF BUSINESS ADMINISTRATION (MBA)

Vision

To empower young generations for substantial contribution to economical, technological and social progress of society.

Mission

To be a globally, socially conscious institute of research and innovation with an excellence in professional education to take up the challenges of change for the benefit of society.

Degrees offered	Course Offerings	Duration	Intake	Entry requirements
Master in Business Administration **Specialization** Marketing, HR, Finance, System	Our courses are approved by the AICTE, DTE and affiliated to the University of Pune.	2 years	120 seats	Graduation + CMAT / CAT / JMET / MAT / XAT / ATMA

Genesis

Prof. Dr. Mangesh Karad, the reputed educationist, has translated his innovative thoughts for this Institute into action and presented them into the realms of reality in the form of Centre for Management Studies and Research Institute.

Prof. Karad's dynamic leadership, his constant stiriving for perfection and excellence in the field of management education is mirrored by the institute that function under the rubric of MAEER's MIT Group of Institutes.

CMSR is a ISO 9001-2008 certified Institute. It is also in the process of getting assessed by NBA, for accreditation.

CMSR focuses on management education, training and research to help students keep pace with the demands of a challenging career. We are committed to training competent managers through excellence in teaching and focus on quality.

The Institute is supported by invaluable advice and direction from the Governing Body and Academic Council which include eminent personalities from both industry and academia.

Beliefs

CMSR strongly believes in inclusive and sustainable development. This belief translates into a number of CSR activities such as:

- Helping underprivileged and downtrodden
- Tree planting
- Blood donation
- Extending help to differently abled children etc.

Our values emphasize on the holistic development of our students and thus our curriculum includes several:

- Executive series lectures
- Outbound programs
- Industrial tours
- Seminars
- Conclaves
- Lectures by national and international speakers on various topics of management.

CMSR is a strong proponent of Quality and completely believes that Quality is the only tool that will give a cutting edge to survive in a fiercely competitive corporate world.

We believe that flexibility and adaptability to change are the only master keys to keep with the changing situations in industry and the aspirations of the youth. We fine-tune our students to drive themselves to explore their hidden potential through :

- Role play
- Presentations
- Mock interviews
- Group discussions
- Current affairs
- Extempore debates
- Quiz competitions, etc.

Industry-education interface is pivotal to ensure that our students are perfectly tuned to the needs of the corporate world that they stand at the threshold of. CMSR students are given ample field exposure and opportunities to interact with the industry even while studying :

- Summer internships
- Summer & Winter projects
- Industry interaction & corporate relations
- Future-focussed guidance and honing leadership skills.

CMSR offers unique student support to give them an edge over their competition when they step out of the B-School into the world of management. We take infinite care to match the dreams of each of our students to the requirements of the industry to create a win-win situation :

- Emphasis on both hard skills and soft skills
- Communication skills
- Personality development
- Business communication
- Aptitude tests
- Industry interface and field exposure
- Individual counselling
- Mentoring and hand-holding
- Students contribute research articles and papers to national and international journals
- Outbound training, etc.

Our students are taught self-discipline and are given innumerable opportunities to be open-minded and inquisitive in acquiring up-to-date knowledge.

CMSR has a strong networking and relationship with the industry thereby creating enviable opportunities for our students' placements into their dream jobs. We have consistently placed all our students in reputed companies in industry. Our CTC ranges from Rs. 7 to 3 lakhs per annum.

The Institute

CMSR is strategically located and near enough to the throbbing pulse of Pune's Industrial belt and IT parks, but far enough from it to be ensconced in Nature's bounty, nestled in the sylvan surroundings of the hills.

The Institute is built to be aesthetically pleasing. "Quality" is the word that echoes from every nook and cranny of our buildings:

- Inviting classrooms
- Pleasing interiors
- Ergonomically designed furniture
- Computer labs
- Wi-Fi connectivity
- Pristine hygienic and sanitized hostel rooms

We believe that physical fitness is a vital component for an alert mind. CMSR has:

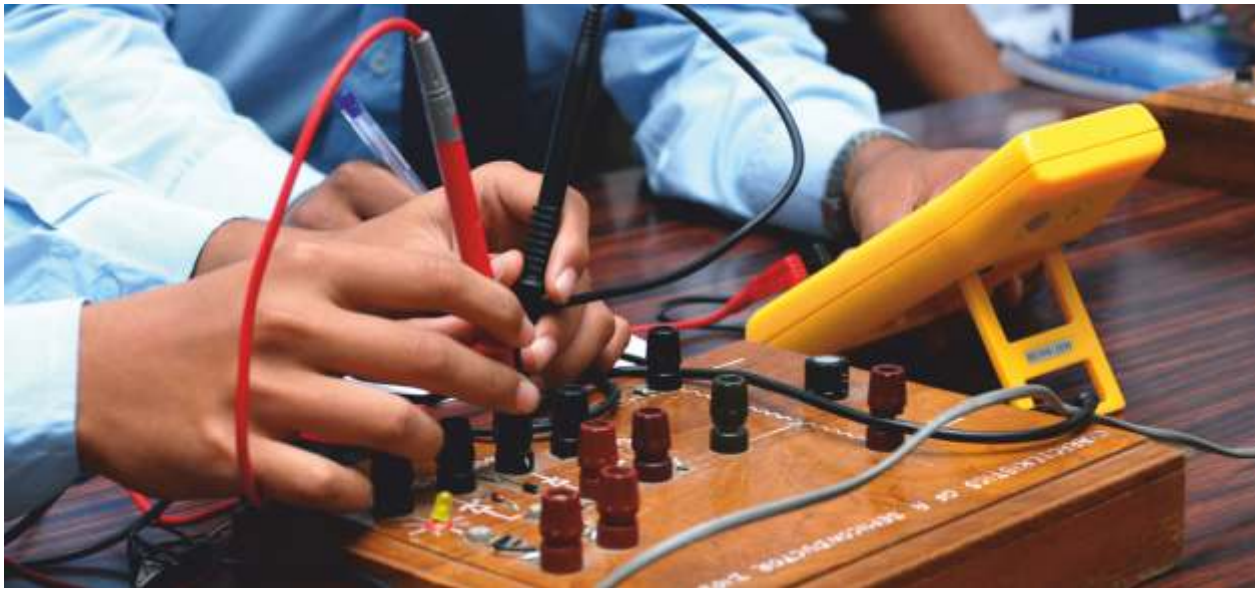
- Sprawling play ground
- Basket ball and tennis courts
- Sports facilities
- Trekking outings
- Nutritious and well balanced meals hygienically prepared.

Co-curricular activities of our institute include:

- Cultural programmes
- Celebration of national festivals
- Manthan – the CMSR annual fest
- Cultural clubs etc.

We at CMSR teach our students to think, to ponder, to dream...we teach them to see and read what everybody else has seen and read, but think what nobody has thought...in this lies the uniqueness and speciality of our students !

RESEARCH AND DEVELOPMENT



The Institute believes that along with excellence in teaching-learning, research, innovation is the key for future development in general. Hence the Institute has plans to cultivate academic and research collaboration with National and International Universities, Government Organizations and Industries. Based on the credentials of the faculty and research facilities available in the college, Electronics and Telecommunication Engineering Department and Mechanical Engineering Department have been recognized as Research Centers, by University of Pune for Ph.D. research work. Few MOUs have been signed for research collaborations with Industry/Research organizations and few more are in the pipeline, which will further strengthen the research culture in the institute. At present, R & D projects to the tune of 5 crores have been sanctioned by external funding agencies, which are in progress.

The R & D cell comprises of faculty members from various Departments of the institute. This committee coordinates for up-scaling and enhancing the Research & Development activities in the institute. A senior faculty heads this cell in the capacity of Dean – R & D, with the Principal providing advisory support. Approximately, 3000 students perceive their careers in our institute, under the valuable guidance of our young, dynamic, and research oriented faculties in each department. Our faculty members are actively involved in Research & Development. Each department has identified Special Interest Groups (SIGs) to keep focused on the latest technology trends in respective branches. Along with PG students, UG students are also motivated to undertake research oriented projects. The faculty and students of the college are encouraged to publish research papers in reputed National and International Conferences and Journals. All the departments are publishing newsletters and e-magazines to promote, research culture among faculty as well as students.

Department wise broad areas of expertise

Sr. No.	Department	Specialized Domain/Area of Research
1	E & TC Engineering	VLSI and Embedded Systems, Communication and Signal Processing
2	Computer Engineering	High Performance Computing Research, Machine Intelligence Research, Data Mining
3	Information Technology	Advanced Wireless Networking and Systems, Advanced Software Research
4	Mechanical Engineering	Advanced Engineering Research, Thermal and Fluid Engineering Research
5	Core Engineering and Engineering Sciences	Fluid Mechanics, Atmospheric Research, Structures, Nanotechnology, Polymers

MIT College of Engineering

LIBRARY

ABOUT LIBRARY

MIT-COE library plays a vital role in acquiring, organizing & disseminating knowledge resources. It is well equipped with an outstanding infrastructure to meet this requirement. The library is automated and operates through SLIM 21 software and provides access through Online Public Access Catalogue (OPAC). Usage of Bar-code Technology for transaction of books is practiced.

It has an excellent collection of Books & Journals and other non-book reading material in the form of CD-ROMs and DVDs. The Digital Library has 10 separate computers connected with internet having Audio/Video facilities for surfing. Variety of professional E-journals is accessible to Faculty, students and Research Scholars.

More than 150 students can take advantage of Library Reading Hall facility which is fully air conditioned and has excellent ambience which encourages and enhances the involvement of students in studies.

LIBRARY SERVICES

The library facilitates the users with following services.

Home lending

- Books are issued to the students and staff during library hours through this facility.
- This facility helps for renewal of the books as per general library rules.
- Reservation Service
- The required book can be reserved for usage as soon as it is available in library.

Online Book Search Facility (OPAC)

- This facility is used to check availability of books in library.
- This facility is used to check availability of books from the desk of faculty as well as any PC in the lab.
- This service helps in managing library account like details of books issued, due date, fine etc. to any of the user on campus.

Reading Hall Books Service

- Ten books can be issued for same working day to one student for reading hall usage.
- Students are allowed to carry their study material in reading hall.

Journals and Reference Section

- This section facilitates to refer print journals and reference books.
- Photocopying of required contents is facilitated in library.

Photocopy Service

- Photocopy service is provided to the Faculty and students on payment basis to take photocopy of some of the contents of any of the reference material in the library.

Access to Other Libraries

MIT COE Central Library has tie ups with some of the libraries for access of knowledge base. These are:

- British Library, Pune; ARAI Library, Pune; MIT Library, Pune
- MITSOM, Pune

Information alert services

- This service keeps the users updated with the relevant news as well as the latest material in library.

New Arrival of Books

- This facilitates the users to know the new arrivals in the library for the benefit of users.

News items display

- Newspaper clippings related to MIT campus and other developments are displayed in the designated space in the library to keep students aware about the happenings in and around the campus.

Publication and conferences

- Library displays faculty publications, announcements about conferences, workshop, training programs, seminars etc. to help students updated with the events and participate in these events.

LIBRARY COLLECTION

1. Volumes: 31571
2. Titles: 514
3. National Journals: 132
4. E- Databases / Journals Packages: 03
   a) J-gate Engineering and Technolog
      www.jgateplus.com
   b) J-gate Management Sciences
      www.jgateplus.com
   c) DELNET
      www.delnet.nic.in

DIGITAL LIBRARY

User can access all E-Journals / articles, ASTM books and other knowledge databases through net connected systems which share the MIT COE internet Bandwidth of 10 mbps.

LIBRARY FEATURES

- On line Book Search System OPAC: (Online Public Access Catalogue)
- Account management from desk
- Air conditioned reading hall with excellent ambience
- Access to world renowned e-journals
- Tie ups with other libraries , Books Reservation Facility , E - Vigilance system
- Photocopy facility, News Alert system and 12 hours Usage.

Sr. No.	E-JOURNAL PACKAGES	URL / WEB
1	IEEE ASPP online	http://ieeexplore.ieee.org/
2	Springer Electrical, Electronics & Computer	http://link.springer.com/
3	Springer Mechanical Engineering	http://link.springer.com/
4	ASCE Complete Package	http://www.asce.org/
5	McGraw-Hill's Access Engineering	http://accessengineeringlibrary.com/
6	J-Gate Engineering and Technology	http://www.jgateplus.com/
7	Elsevier -Science Direct	http://www.sciencedirect.com/
8	ASTM Digital Library	http://www.astm.org/
9	J- Gate Management & Social Services	http://www.jgateplus.com/
10	EBSCO	http://www.ebsco.com/

MITCOE- GCELL- GRIEVANCES REDRESSAL MECHANISM

While imparting professional education, we take utmost care that students and other stake holders feel the comfort in the campus. We at MITCOE practice transparency, justice so that stake holders are not suffered. In fact campus is highly spiritual under the guidance of our honorable founder, Dr. V. D. Karad Sir. Campus observes high moral and ethical practices. May be this is the reason that we have not received any ragging or woman harassment complaints since inception of this college. Our GCell efficiently addresses for General grievances, Ragging and Women issues on the campus, as per guidelines of AICTE, University and DTE, Govt. of Maharashtra. GCell helps to keep the healthy working atmosphere among the staff, students & parents.

There are three sections in the cell.

1. Anti Ragging Cell, where students can lodge the complaint related to ragging and will be operated as per Anti Ragging rules laid by government.
2. General Grievances Cell, where everyone in the college domain can lodge the complaint and get their problems addressed regarding processes, facilities or quarrels among the students.
3. Woman Anti-Harassment Cell, where female can lodge the complaint and get their problem solved. Pursuant to the directives of the Supreme Court of India, this cell has been set up as per vishakha guidelines, to uphold the dignity of women at work place.

GENERAL GRIEVANCES

Prof. B. N. Jagdale
Member Secretary, GCell
balasaheb.jagdale@mitcoe.edu.in
Mobile: 9922688011

With reference to AICTE Circular, AICTE (Establishment of mechanism for grievance redressal) regulations 2012 dated 25th May 2012, grievances committee is constituted. Institute level committee operates at local level. Member secretary coordinates and maintains the summery of all transactions related to grievances in MITCOE. In addition Savitribai Phule Pune University has also its committee to look into the matters pertaining to general grievances. Committee details are available with university.

ANTI-RAGGING CELL

Prof. Surendra Barhatte
Nodal Officer
Department of Mechanical Engineering
surendra.barhatte@mitcoe.edu.in
Mobile : 9423871807

With reference to AICTE notification no. F.No. 37-3/legal/AICTE/2009, dated 01/07/2009, under section 6 (a) and 6 (c), this committee is constituted as Anti-Ragging Committee. Nodal officer of Anti-Ragging Committee coordinates and maintains the transactions related to Anti-Ragging activities. We also have anti-ragging squad which visits various places on the campus to curb the ragging matter on time. In fact our mechanism is so strong that no ragging is reported in MITCOE, Pune.

WOMAN ANTI-HARASSMENT CELL

Prof. Mrs. Mrunal Annadate
Cell - Convener
Department of Electronics & Telecomm. Engineering
mrunal.annadate@mitcoe.edu.in
Mobile : 9890319199

With reference to DTE, govt. of Maharashtra, letter number 2012/6075 dated 31st July 2012, AICTE letter number F.N.: 01-29 / CM / AICTE / 2012, Dated: 1st January 2013 and DTE letter DTE RO PUNE/VV/ admission /2014/2113 dated: 21/05/2014, related to woman anti-harassment at workplace, this committee is constituted and operational in MITCOE as per the vishaka court judgment guidelines. Events related to legal awareness, self-protection, and empowerment are regularly conducted in the campus.


-WING

MIT Academy of Engineering, Alandi

Vision

"To develop the institute into a world-class learning centre with an excellent ambience for academics and research conjugated with a vibrant environment for honing the extra and co-curricular skills of all its stakeholders to enable them to meet the challenges of the fiercely competitive world."

Mission

"To leave no stone unturned in our endeavour to ensure that every alumnus looks back at us and says 'MITAOE has not merely taught us, it has educated us."

From the Executive Director's Desk

MITAOE is a state-of-the-art institute designed to bring the best out of its students while endeavouring to meet the demands of the industrial world.

The industrial scenario worldwide is changing at a rapid pace. With the advent of many cutting edge technology areas, newer scopes for job opportunities, collaborative industrial research and consultancy are coming up. At MIT Academy of Engineering (MITAOE), we continually update and attune ourselves to keep pace with the ever-changing demands.

MITAOE is a state-of-the-art institute designed to bring the best out of its students while endeavouring to meet the demands of the industrial world. Extremely focused, it strives for excellence in technical education and research. As MITAOE is deeply committed to train students by motivating them towards the classroom teaching and learning, it also offers stimulating research projects for exposing them to the real world challenges. The seven core disciplines viz. Chemical, Computer, Electronics, Electronics & Telecommunication, Information technology, Mechanical and Civil Engineering and the three postgraduate programmes viz. ME (Computer), ME (VLSI & Embedded systems) and ME (Mechanical) have infused and interdisciplinary connectivity which enables the faculty and students to work together to solve common problems of mutual interest.

MITAOE's sprawling campus is located in the picturesque natural surroundings, on the banks of the river Indrayani. The institute provides an ideal environment for pursuing excellence in education and research in the frontier areas of engineering and technology. A highly competent faculty, state-of-the-art laboratories, computing facilities and adequate campus amenities have contributed to create the right atmosphere for the development of competent engineers to serve the nation.

Dr. Sunil K. Karad
Executive Director, MITAOE

From the Principal's Desk

"Millions said 'the apple fell' but Isaac Newton was the only one to ask 'why'. This is the true spirit of curiosity and inquisitiveness that MITAOE tries to inculcate in its students. Highly qualified, experienced, and motivated faculty with a sense of purpose is the best asset that we boast of. The institute's serene atmosphere, infrastructure that keeps abreast of global standards, excellent academic facilities, and outstanding residential environment richly add to the perfect ambience for studies and thereby help us achieve the exacting standards of academic excellence.

We understand the maxim that the students are the primary stakeholders of any educational institute and that everyone else only plays a second fiddle. The underlying philosophy of MITAOE education can be summarized in the famous one liner filled with wit and wisdom; from Mark Twain "I never allowed my schooling to interfere with my education." Degrees can be obtained from a university, but not knowledge; goods can be purchased from a market, but not reputation; money can buy almost everything but not character.

Students who get admitted to MITAOE are put through the principles and practices of engineering that are in-built in the curriculum. As they accumulate knowledge, the amount of ignorance that they carry also unfolds. This is where the real education begins for a grown up; moulding and shaping him to understand and appreciate the world around him. A sense of humility, simplicity and modesty get inculcated into the personality of everyone. These are the qualities that make a man stand up to this world of fierce competition and challenges. To accomplish this, we offer numerous personality development programmes, discourses on spirituality, lectures on extra and co-curricular activities. We assure that every new student who spends four years at MITAOE is transformed into a matured adult who can stand up to any challenge in his personal or professional life and confidently declare "I can and I will do it the right way".

Dr. Y. J. Bhalerao
Principal, MITAOE

About MITAOE, Alandi, Pune

MIT Academy of Engineering (MITAOE) established in 1999, holds a prominent stance in imparting quality Engineering Education. Founded by honorable Professor Dr. Vishwanath Karad, Executive President and Managing Trustee of Maharashtra Academy of Engineering and Educational Research (MAEER), Pune, MITAOE has emerged as a unique "Centre of Excellence" for Engineering Education and Research since its foundation. Besides offering seven undergraduate programmes in engineering, MITAOE also runs three ME programs for professional postgraduate education.

The institute comprises of highly equipped and technology enabled classrooms and laboratories. Qualified and experienced teachers ensure the all round development of students by giving them exposure to academic and extracurricular activities. MITAOE conducts advanced research on some of the most current and socio-economically significant areas. The SPPU has recognized MITAOE as the 'Best Professional Institute 2014'. 2100 students seek education in the various significant courses enlisted below:

Under-Graduate Courses

- Chemical Engineering (60)
- Computer Engineering (120)
- Electronics Engineering (60)
- Electronics and Telecommunication Engineering (120)
- Information Technology (60)
- Mechanical Engineering (120 + 60 Direct SE)
- Civil Engineering (60 Seats)

Post-Graduate Courses

- M.E. (Electronics - VLSI and Embedded System)
- M.E. (Computer Engineering)
- M.E. (Mechanical Engineering)

Doctoral Programme

- Ph.D in Electronics Engineering

MITAOE at a Glance

- Accredited with 'A' Grade by the National Assessment and Accreditation Council (NAAC) for excellence in engineering education and research.
- Accredited by the National Board of Accreditation (NBA), AICTE, New Delhi for providing congenial ambience with modern infrastructure, well-equipped labs, separate boys' and girls' hostels and many other facilities.
- Affiliated to the University of Pune, India, and approved by the All India Council for Technical Education (AICTE), Government of India.
- One of the first few engineering colleges under the University of Pune to be awarded with ISO 9001:2008 Certificate. As of today, we are an ISO 9001:2008 certified institute.

- Student – Teacher ratio is 12 : 1
- Student – Computer ratio is 3 : 1
- Student Chapters of IIChE, IEEE, CSI, ISTE IEI, IETE and CSI have been established in the Institute to keep the students updated with the up-coming technology trends.
- Recently, the University of Pune has awarded MITAOE with the 'Best Professional Institute' Award on the occasion of the University Foundation Day on February 10, 2014.

Learning-centred approach, personal attention to all the students and effective implementation of their valuable suggestions received through feedback and 'Student Teacher Interaction Scheme', make the teaching/learning process more effective. Selection and retention efficient and talented staff members to enhance the quality of Education and Administration, is our key to success. They are encouraged to pursue research and higher studies.

Another significant feature is the 'Tutor System for Counseling'. Each guardian faculty member takes personal care of a group of 20 students and resolves their difficulties regarding academic as well as day to day life.

Admissions

How to Apply

Candidates are advised to follow the rules for admission to the First Year Engineering and rules for direct admission to the Second Year Engineering degree course as published by the Directorate of Technical Education (DTE), Maharashtra State from time to time. Some of the basic guidelines are given below.

All the candidates are advised to submit their applications to the Admission Authorities notified by the Government of Maharashtra on or before the last date of application unless specified differently elsewhere in this brochure.

Entry requirement for the First Year of Engineering

A candidate should have passed the HSC (Std. XII) examination of Maharashtra State Secondary & Higher Secondary Education or its equivalent examination with minimum 50% marks (45 % marks i.e. 135 out of 300 for backward class category students) in Physics, Chemistry & Mathematics.

OR

A candidate who has passed the diploma course in Engineering / Technology affiliated to the Board of Technical Education, Maharashtra State (MSBTE) or its equivalent with minimum 60 % marks.

Eligibility Criteria

The information in brief is given below. For more details, refer to the Government of Maharashtra (DTE) website:

www.dte .org.in

For the candidates from Maharashtra State :

In addition to educational qualification as specified in "Entry requirement", candidates are required to appear for the Joint Entrance Examination (JEE) exam for that particular academic year and secure a non-zero score to be eligible for admission for State Quota (65 %) seats through Central Assessment Process (CAP).

- **For the candidates from outside Maharashtra State :** In addition to the educational qualification as specified in the "Entry requirement", candidates from Maharashtra state as well as outside Maharashtra state should have a valid score in the Joint Entrance Examination (JEE) conducted by C.B.S.E. New Delhi for that academic year, to be eligible for admission against these 15 % reserved seats.
- **For admission under Institutional Quota:** Candidates from within and outside Maharashtra state and with educational qualification as specified in "Entry requirement" are eligible for institutional Quota (20%) seats. However, the candidates should have appeared for JEE exam for that particular academic year conducted by the C.B.S.E. New Delhi for that academic year. The candidates are required to apply separately to the institute.
- **For the Diploma holder candidates:** After admitting candidates who fulfill the eligibility criteria mentioned above, if vacancies still exist after the cut-off-date declared by the concerned Government authority, the Principal may admit diploma holders who have passed the diploma course in Engineering / Technology affiliated to MSBTE or its equivalent with minimum 60 % marks against these vacancies. Such admissions are also as per the merit of candidates.

Tuition Fees

The Fee structure of the institute is as per the approval by the Shikshan Shulka Samiti.

Annual tuition fee is payable in full at the beginning of each academic year.

- For BE and ME admissions, please contact our Admission Department at a**dmissions@mitaoe.ac.in** or visit our website: **www.mitaoe.ac.in.**
- You may also visit: **www.dte.org.in** for the information regarding admissions.

Departments

- Chemical Engineering
- Computer Engineering
- Electronics Engineering
- Electronics and Telecommunication Engineering
- Information Technology
- Mechanical Engineering
- Civil Engineering
- Engineering Sciences
- Humanities and Professional Development

CHEMICAL ENGINEERING

Prof. Nitin M. Rane
B.E. (Chemical Engineering),
M.E. (Chemical Engineering),
Ph.: +91 20 30253615
Email:
nmrane@chem.maepune.ac.in

Vision

The Chemical Engineering department strives for national recognition in teaching, research & social services. It enriches the standard of engineering education, continually enhances quality & competence of graduating students to stimulate research activities that contribute to the advancement of the chemical engineering profession & the industry.

Mission

The mission of the department is to fortify the undergraduate students for professional practice, graduate studies and lifelong learning to forward the engineering and technological basis for chemical engineering practice.

Degrees Offered	Duration	Intake	Entry requirements
Bachelor of Chemical Engineering (Savitribai Phule Pune University)	4 years (full-time)	60 seats	10+2 (HSC)

Introduction:

The Department of Chemical Engineering has carved a name for itself since its inception in August 1999. Extremely motivating results at the University level are indicators of the good academic performance of the Department.

Chemical Engineering students at MITAOE get intense training in practical skills and theoretical knowledge. This has served further to reiterate the quality of teaching and commitment to research in the Department. This has been made possible by a team of dedicated faculty drawn from the best institutions across the country, and the state-of-the- art facilities like software and laboratories on our campus. The aim is to provide the best chemical engineering graduates to the corporate world.

Academic Activities:

The Faculty members have interest in diversified areas and they have formed a special cohesive team which is nurturing an innovative approach to teaching/learning. This helps the students to get intellectual guidance and help in most of the specified areas by the faculty members. The faculty members conduct many curricular, co-curricular and extra-curricular activities. They attend several national and international events organized by premier institutes.

To make the students aware of the industrial processes and assimilate the underlying principles of these processes, many Industrial visits of students of Chemical Engineering are organized to plants of variety of products.

The students enthusiastically participate in various academic activities conducted at the departmental and institute levels. They also participate in numerous events organized by the external institutes.

Forefront areas of research:

The Department of Chemical Engineering is always at higher end in the field of innovative tools identification, their implications into feasible processes, and application of these findings into tangible resources for the benefit of students, in particular, and of society at large. The potential of the Faculty members of Chemical Engineering Department has been recognized as exemplified by a sanction for four research projects and a grant from the University of Pune.

The Department has emerged as the hub for training to Industry and faculty on "Modeling, Simulation, Optimization, and Retrofitting of Chemical Plants using modular simulators". Many such programmes are being organized frequently.

The industry has well appreciated the modules and knowledge imparted during the courses. The students at the department are also highly benefited from the practical applications of the tools by the participants and get well prepared before they actually enter the industrial scenario. It

will not be an exaggeration to quote that this is the only department in Pune University which offers such a significant training consultancy to application engineers from various places and hence is widely appreciated all through the chemical Industry.

Laboratories and Software:

The department of chemical engineering has well-equipped, state-of-the-art laboratories where our students get sound exposure to exercise their practical skills. The department aims at fostering its students' practical knowledge based on strong theoretical background; the laboratories play a significant role in enhancing the teaching/learning process.

The Department is empowered with world class software to impart quality education in this exacting industrial environment. AspenHYSYS is worldwide renowned software for Modeling and Simulation in Chemical Engineering. Many students have completed projects in this field and are catering to the needs of industry. To mention specifically, all of them have been placed in top cadre industrial sector like Reliance and others.

The department also has a powerful tool, CFD Expert for computational problem solving. The Department uses MATLAB, MathCad, Mathematica on sharing and demo version of TK Solver for enhancing capabilities of students in this area which is in great demand for Modeling and Simulation. Polymath 5 is used for differential and integral analysis and optimization. A focused approach is being given on Simulation and optimization of chemical processes and plants.

Industry Institute Interaction:

The Department has entered into a Memorandum of Understanding with Rashtriya Chemicals & Fertilizers, Chembur, Mumbai. The objective of the MoU is to provide industrial training to the chemical engineering students.

The department also has signed a MoU with TECHINT India Pvt. Ltd., Mumbai & Raj Process Equipment, Pune for student placements, training and industrial visits. Thus the department is always active regarding the training & placement activities.

COMPUTER ENGINEERING

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Vision

To develop the Computer Engineering Department into a world-class learning center with an excellent ambience and research conjugated with vibrant environment for honing the extra and co-curricular skills of its stake holders to enable them to meet the challenges of fiercely competitive world.

Mission

To leave no stone unturned in our endeavor to ensure that every alumnus looks back at us and says "Department has not merely taught us, it has educated us".

Degrees offered	Duration	Intake	Entry requirements
B.E. - Computer Engineering	4 years (B.E.)	120 seats (B.E.)	B.E - H.S.C. + JEE (Mains)
M.E. - Computer Engineering	2 years (M.E.)	18 seats (M.E.)	M.E. - B.E./B.Tech. (GATE)

Introduction

Department of Computer Engineering was established in the year 1999 to meet the demand for well-qualified computer professionals. Global Excellence in research, teaching, and technology development is the vision of the department.

The department is committed to achieve highest order of excellence in the field of Computer Engineering education. The sustained effort is to produce computing graduates with potential to design and develop systems involving the integration of software and hardware devices; innovative approaches to programming and problem solving as well as creative ways to use Computers; Large scale software systems; & computing infrastructure of an organization. Along with the technical knowledge, we also emphasize on the personality development of our students. As a part of this we provide platform to our students to exhibit their talent and skills. Of all the areas of engineering, computer engineering is arguably the most prominent area for job opportunities at the present time. This is because; computers are getting smaller and smaller yet also getting more and more powerful. Job descriptions that do not exist today are commonplace tomorrow. There are more positions available than skilled engineers who can fill these positions. It is expected that this continued growth of opportunities will accelerate as we approach the era when artificial intelligence in computers begins to leave the laboratory and becomes a truly realizable goal. The course is industry oriented and futuristic. Graduates are equipped to work in expanding areas such as :

- Computer Vision & signal processing algorithm development

- Networking & network security
- Embedded systems
- Robotics
- Software development
- Web application
- Quality assurance
- Mainframes etc.

Academic Activities

The Department has a good record of organising seminars, workshops in emerging technological areas. With an objective of developing core competence in the respective subjects, specialisations and special interest groups for learning newer technologies have been formed. Numerous guest lectures and industrial visits are conducted to keep the students abreast of the new advancements in the fields of their specialisations. The students of computer engineering participate in different activities conducted by the department, institute and external institutes. They publish and present many research papers throughout their academic life at the department. The faculty members along with students organise academic seminars, conferences and workshops. Our students actively participate in several cultural activities.

Laboratories and Software

The Department of computer engineering is equipped with modern Laboratories & Software. In addition students can avail various facilities like the Internet and Wi-Fi.

Forefront Areas of Research

The faculty and the students involve in various research activities such as projects, technical papers, publications in national & international journals,& presentations in national and international seminars etc. Following are the research areas that the department focuses on:

1. Computer Networking, security and Communication
2. System Software and Operating System
3. Signal & Image Processing
4. Artificial Intelligence, NN & Fuzzy systems.
5. Advanced Databases

Industry Institute Interaction

The objective of Industry Institute Interaction (III) cell is to arrange student and staff centric activities like workshops, seminars, sabbatical projects for faculty members and Research activity in collaboration with the Industry.

In collaboration with L & T, III Cell of the Department of Computer Engineering has organised workshops on J2EE, NET and Personality development on every Friday. Over 200 students have taken the benefit from these workshops.

In collaboration with IBM, III Cell has started the work on faculty development program and research activity. Total 9 Research Proposals have been submitted to IBM from the computer department for approval and funds through the cell.

III Cell and the department of computer engineering arranged one day Industrial visit at Persistent Systems Pvt. Ltd., Pune for the third year students.

ELECTRONICS ENGINEERING

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Vision

To develop Electronics Engineering Department into a learning centre with an excellent academics and research conjugated with vibrant multidisciplinary environment for honing the extra and co-curricular activities to enable them to meet the challenges in the field of Electronics.

Mission

The Department of Electronics Engineering is committed to develop its students towards an exemplary career in the discipline of electronics and its cognate disciplines; possessing a sound social awareness, sense of responsibility and moral ethos.

Degrees Offered	Duration	Intake	Entry requirements
B.E. - Electronics Engineering M.E. - VLSI and Embedded system Ph.D. - Electronics	4 years (B.E.) 2 years (M.E.)	60 seats (B.E.) 18 seats (M.E.)	B.E. - H.S.C. + JEE (Mains) M.E. - B.E. / B.Tech. (GATE) Ph.D. - As per Pune University norms

Introduction

The Department of Electronics Engineering facilitates students to specialize in the field of electronics at undergraduate, postgraduate and PhD levels. The main objective of the department is to impart strong background of theory and practical in Power electronics including digital, analog circuit design, microcontroller and VLSI based embedded system design etc.

The course offered is well known for its applied nature including a strong laboratory component and considerable project work. The degree represents an excellent combination of basic engineering science(s), electronics theory and practice(s), communication skills & engineering management.

This course is designed for students who wish to become professional engineers in the fields of electronics. The course focuses on the design, construction and management of communication systems, electronic control systems and instrumentation systems.

The course emphasizes the importance of communication and electronics systems and the applications of principles, developed in the course to the solution of significant practical problems. Workshop and laboratory facilities are utilized by students for the extensive project work that is a feature of the course. PC and workstation based computing laboratories provide tools for electronic circuit simulation and computer-aided design work. The department focuses on preparing its students to meet new business challenges and making them aware of the recent advances in the technological field by emphasizing on:

- A strong technical training in modern electronics technology
- Skills in analyzing and design of VLSI & embedded circuits & system
- Robotics and Automation
- Latest trends in simulation
- Advanced computer networking
- Practical skills in Power electronics, VLSI Design, Embedded and wireless system design and precision sensing.

Academic Activities

EESA (Student Association of Department of Electronics Engineering) has every student of Electronics Engineering branch as its member. EESA plays an important role in development of leadership quality and live in unity under this banner. EESA organizes the national level technical event WIZARD every year for the enhancements of knowledge. Students arrange guest lectures and interact with industry, conduct quiz competitions, group discussions, personality competitions, project competitions, Line follower ROBOT , paper presentation, industrial visits, picnic and many more such activities under EESA.

Department additional efforts towards regional, National selections and training of the students to represent India in World Skills International competitions in the skill of Electronics and mobile robotics.

A National Conference on Emerging Trends in Embedded System and VLSI co-sponsored by the University of Pune was organized recently. Eminent speakers from IIT, various regional Govt. Engineering colleges and industry resource persons shared their knowledge & expertise in the capacity of key note address.

Recently the department conducted a two day national level workshop on ROBOTICS.

Forefront Areas of Research

The department conducts its research activities on the following prominent areas:

1. VLSI & Embedded real time systems.
2. Wireless Sensor Networks.
3. Digital Image Processing.
4. Non-conventional Solar and Wind Energy
5. Precision agriculture
6. Precision sensing
7. Real Time OS & Job Scheduling

Laboratories and Software

The department has some of the finest laboratories, with modern equipments like Spectrum Analyzer, DSO, PLC's, DSP kits, Bio-Medical, Instrumentation kits, Microwave bench, Fiber Optic Communication kits, VLSI kits, Analog and Digital communication kits, Inverters, Converters, Choppers, Motor Controllers, Microcontrollers, ARM controllers, Mechatronics kits, PCB making unit and many more. The Department has latest software such as MATLAB, Multisim (EDA tools), TC, KEIL, XILINX, PSpice, Psim.

Laboratories

1. Project Lab
2. Electronic Devices & Circuits Lab
3. Basic Electronics Engineering.
4. Digital Electronics Lab
5. Software Lab.
6. Electronics Hardware Workshop
7. Electrical Laboratory
8. Power Electronics L
9. Embedded System Lab
10. VLSI Lab

Industry Institute Interaction

The department has signed MoUs with Gill Instruments NSDC, Tejas Network Systems and Nex Robotics to develop projects using Texas MSP 430. Students take up live projects in the industry. These students are groomed in all the fields so that they are globally accepted and can easily adapt themselves to various fields of industry such as production, maintenance, R&D, IT, and telecommunication sector.

Alumni of 200+ have already proved their ability in the most challenging world of core technologies and Software Industry a few of which are at TCS, WIPRO Technology, CYBAGE India Ltd., KANBAY, COGNIZANT, INFOSYS, SATYAM and SYNTEL etc. Our alumni guide the students through guest lectures and also facilitate several industrial visits.


ATTENTION

ELECTRONICS & TELECOMMUNICATION ENGINEERING

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Vision

To develop the students towards an exemplary career in Telecommunication and its cognate disciplines; possessing a sound social awareness, sense of responsibility and moral ethos

Mission

To develop the department into a state-of-the-art education hub; with multi-faceted learning environment complemented by adequate facilities and resources, in which academics and research thrive; facilitating inclusive growth of all its stake-holders and enabling them to be leaders of tomorrow.

Degrees Offered	Duration	Intake	Entry requirements
B.E. - Electronics & Telecommunication Engineering	4 years (B.E.)	120 seats (B.E.)	B.E - H.S.C. + JEE (Mains)

Introduction

The Department of Electronics and Telecommunication Engineering is one of the principal academic movers at MIT Academy of Engineering, which facilitates students to specialize in the field of telecommunication. The main objective of the department is to impart strong background of theory and practical in communication engineering including satellite, wireless and optical, mobile, audio and video etc. The UG program is accredited by NBA (National Board of Accreditation) and ISO 9001:2008 certified. The program offered is well known for its applied nature including a strong laboratory component and considerable project work. The degree represents an excellent combination of basic engineering science(s), electronics and communication theory and practice(s), communication skills and engineering management.

This course is designed for students who wish to become professional engineers in the fields of electronics and communications engineering. The course focuses on the design, construction and management of communication systems, embedded and VLSI system, signal and image processing and control systems. It is a versatile branch, in the sense that the students holding the degree in the Electronics and Telecommunication can build up his career in a wide spectrum of domains. The Department of Electronics and Telecommunication was established in the year 2000 and is a synergistic product of many proactive minds. A team of dedicated and committed faculty supported by technical staff members unanimously harnesses its potential in all aspects to take the department to greater heights.

The salient features of the department are
- Approved by AICTE
- Permanently Affiliated to University of Pune
- ISO 9001: 2008 Certified
- Accredited by NBA(2 times)
- Student intake of 120
- Well-equipped laboratories with a total investment of around 2.5 crores
- Total Funding of around Rs. 60 lakhs received from DAE, AICTE and UoP
- Department Library with around 300 Titles

Academic activities

The Department organizes a variety of events, activities and programs for the holistic development of student community at large. The spectrum include co-curricular and extra-curricular activities like,
- Certificate course (Add On Module)
- Workshops & Seminars
- Conference & Symposium
- Guest Lecture
- Industrial Visit
- Technical competitions
- Social and Literary
- Professional Development
- Extra-curricular

These activities are organized by student association ENCODE and Professional Society Chapters like Institute of Electrical and Electronics Engineers (IEEE), Institute of Electronics and Telecommunication Engineers (IETE), International Society for Automation (ISA), Institution of Engineers (India), Indian Profibus, Profinet Association (IPA).

Forefront Areas of Research

The Department of Electronics and Telecommunication Engineering is a pioneer in initiating the Research and Development activities. The primary objectives can be summarized as:

1. To motivate faculty for doctoral and post-doctoral assignments at various national and international universities and organizations of repute
2. To initiate research projects in, thrust areas of engineering funded by various national and international agencies
3. To develop interaction and cooperation between researchers for interdisciplinary and multidisciplinary work
4. To explore new horizons of knowledge and ensuring its practical implementation through collective efforts and quality research work
5. To provide adequate facilities, resources, and environment conducive for research work

The faculty at department of Electronics and Telecommunication Engineering are involved in cutting edge research that can have a positive influence on the life of mankind. The concerted efforts of faculty are manifested in the form of completing a number of research projects funded by University of Pune, AICTE and Department of

Atomic Energy, Govt. of India. Research Groups associated with the department are as follows.

- WiCom - Wired & Wireless Communication
- SIP - Signal & Image Processing
- EmSys - Embedded Systems & VLSI
- SysCon - Systems & Control

Laboratories

The department has some of the finest labs, with modern equipment's like Digital storage Oscilloscope, Multistorage Oscilloscope, PLC, Spectrum Analyzer, Flow Measurement and Control system, Microwave sources and active, passive devices etc. which give the students hands on experience. We also have latest softwares like Multisim (EDA Tool), MATLAB, C Cross Compiler (Keil's), Pspice (Evaluation Ver.), Xylinx 3.1 (D) etc.

1. Signal Processing Laboratory
2. Communication Laboratory
3. Advanced Communication Laboratory
4. Embedded Systems Laboratory
5. Instrumentation & Control Laboratory
6. System Simulation Laboratory
7. Project Laboratory
8. Hybrid Electronics Laboratory

Industry Institute Interaction

The department keeps itself abreast of the modern advancements in the field of Electronics and Telecommunication and also of the requirements of the industry by organizing industrial visits, projects and guest lectures of the eminent professionals in the field. The department has signed MoUs with leading organisations like

- KPIT Technologies
- Edgate Technologies, Bangalore
- JSG Electronics, Pune
- Edutech Learning Solutions, Vadodara
- Micro embedded Technologies, Pune
- Four Byte Embedded Solutions, Pune

INFORMATION TECHNOLOGY

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Vision
To develop the department into an academic centre of global standards which will foster students' academic knowledge and technical skills as well as groom them to face the challenges in the outside world.

Mission
To make a persistent effort to achieve excellence through innovative educational programs, extracurricular and cocurricular activities that would contribute to effective teaching-learning and all round development of students so as to prepare them to be the leaders and innovators of tomorrow.

Degrees Offered	Duration	Intake	Entry requirements
B.E. -Information Technology	4 years (B.E.)	60 seats (B.E.)	B.E - H.S.C. + JEE (Mains)

Information Technology

Degree Awarded	:	Bachelor of Engineering (Pune University)
Course Duration	:	Four years (full time)
Course Intake	:	60 seats
Entry Requirement	:	10+2 (HSC)

Introduction

Over the past decade, India has emerged as a key player in the Global IT Scenario. IT industry in India has constantly shown one of the highest growth rates compared to most other industries. Information Technology Department is the fusion of computer science with Electrical and Electronics Engineering. Development and application of computer systems comes under this foray.

Our main aim is to:

- Provide excellent teaching at all levels in an environment enriched by research so that students may develop intellectually and individually.
- Produce graduates who are adaptable and alert to the benefits of lifelong learning and who meet the requirements of employers (local, national and international) from all sectors.
- Maintain a balance of basic and strategic research with a substantial element of contract research and promote learning through the application of knowledge.
- Optimize the use of resources to improve the working environment and range of services for students and staff.

Our department has highly qualified staff with industrial as well as teaching experience, which will surely create the quality technocrats and excellent human beings with a vision to take our nation towards peace and prosperity.

Considering the requirements of the corporate world, we focus on the core subjects like Operating Systems, Database Management Systems, Software Engineering etc and application oriented subjects like Mobile Computing and Software Testing.

Academic Activities

The department has highly experienced and qualified faculty members who conduct various academic activities. The faculty members participate in various state, national and international academic and co-curricular events.

Today's world demands from students' not only academic excellence but an overall development of students in diverse spheres. Co-Curricular and extra curricular activities help students enhance their knowledge and experience beyond the classroom and books.

Dept of IT has formed an Association of students, named FACE-IT (Federation of Academic and Cultural Excellence – Information Technology). Various co-curricular and extracurricular activities are conducted under this association to provide the students of the department with a platform to showcase their latent skills. The Events such as 'Umang', 'Xceed' have been conducted successfully by the association so far. The department started innovative concept "Udaan" last year. The students from Alandi nagar Parishad shala were invited in the department to provide them awareness about Internet and Google search engine.

The event 'Xceed' consists of both technical and non-technical activities which will help students to improve their academic performance and overall personality development.

In addition to that department is conducting aptitude tests, group discussions, guest lectures etc. for development of students.

Forefront Areas of Research:

Global information systems are posing great challenges for research in Information Technology. Faculty members in the department are active in conducting research at the forefront of their specialties. Many under graduate students in the department are provided with the opportunity to conduct research under faculty guidance as part of their degree program. Research is currently being carried out in the fields of Networking, Image Processing, Data Mining and Data Warehousing. Students are involved in leading-edge research and development efforts, with interaction from high-technology corporations.

Laboratories:

Department of Information Technology has well-equipped state of the art laboratories which includes branded Desktops & Server Systems of IBM which are interconnected through Cisco Switches & Router to give the students hands on experience. The department comprises of the following labs.

1. Software Lab -1
2. Software Lab -2
3. Multimedia Lab
4. Linux Lab
5. Database Lab
6. Digital and Microprocessor Lab
7. Computer Network Lab
8. Web Technology Lab
9. Artificial Intelligence & Experts System Lab
10. Project Laboratory

Industry Institute Interaction:

The department has signed MOUs with various reputed companies for the purpose of enriching the technical education process and enhancing the quality of education imparted to students of all engineering disciplines in the field of Information Technology.

MECHANICAL ENGINEERING

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Vision

To develop the department into a renowned learning center with a right blend of academics, researc ,industrial exposure & social responsibilities which enables the students to develop their personality & be better citizens.

Mission

To strive for excellence through holistic development of all stakeholders of Mechanical Engineering Department.

Degrees Offered:-	Duration:-	Intake:-	Entry requirements:-
B.E. - Mechanical Engineering	4 years (B.E.)	120 +60 seats (B.E.)	B.E. - H.S.C. + JEE (Mains)
M.E. - Mechanical Engineering	2 years (M.E.)	18 seats (M.E.)	M.E. - B.E. / B.Tech. (GATE)

Introduction

During the course of studies in Mechanical Engineering, the knowledge of Mathematics, Physics, Thermodynamics, Mechanics of Materials and Fluid Statics, Dynamics and Chemistry with a specialized knowledge of Metal cutting, Machine tools, Manufacturing system etc. are imparted to students. The syllabus of Mechanical Engineering is designed so as to cater to the needs of manufacturing industries, the power sector, corporations, Government and private R&D departments, educational institutions, Information Technology centers etc. With the growth of technologies the new subjects of studies are also introduced such as computer aided design and graphics, Mechatronics, Robotics, modeling, simulation, analysis, software development etc.

Apart from the central library of the Institute, the Department of Mechanical Engineering has also a library of its own. This contains the reference books, magazines and National and International journals that are commonly required by the students of the discipline.

The department aims at providing its students education of high academic excellence through the finest facilities and teaching/learning environment.

Academic Activities

The department of Mechanical engineering organizes various state and national level events such as seminars, workshops and conferences on significant topics in the field. Faculty members organize industrial visits and guest lectures throughout the academic year.

Co-curricular and extra-curricular activities are essential along with academics for overall development and preparedness of the students to take up challenging tasks ahead. We at MAE, nurture the extracurricular dexterities of students. We encourage students to participate in various activities such as Indoor and outdoor Games, music, personality development etc. by organizing events at intra as well as intercollegiate levels. MESA (Mechanical Engineering Students' Association) has been formed where students themselves organize events under guidance of experienced faculties.

Various co-curricular activities organized under MESA are Technical Paper Presentation, Conferences, Workshops, and Guest Lectures of experts from all over the country. Students are exposed to current trends and future requirements in several fields through technical events. Sufficient funding for conducting these events is also made available to MESA.

Forefront areas of Research

The faculty and students at the Mechanical Engineering Department are involved in research in the significant areas like:

- Heat Transfer.
- Internal Combustion Engines.
- Solar/Renewable Energy.
- Computational Fluid Dynamics.

Laboratories and Software

The Department of Mechanical Engineering has developed modern and well-equipped laboratories for practical training to the students. The various labs can be enlisted as below:

- Thermodynamics (Steam and Internal Combustion engines)
- Heat and Mass Transfer
- Refrigeration and Air-conditioning
- Theory of Machines and Vibrations
- Fluid Mechanics & Fluid Machinery
- Metrology and Metallography
- CAD / CAM
- Fluid Power (Hydraulic and Pneumatic)
- Project and Instrumentation
- Mechatronics

Today's business environment is rife with competitive challenges, customer requirements and financial pressures. This combination of factors has resulted in the need to find new methods for engineering more innovative products and manufacturing processes - while minimizing costs and time to market. To make our students competitive for such environment our department is empowered with world class software.

Autodesk Inventor: it is developed by U.S.-based software company Autodesk, is 3D mechanical solid modeling design software for creating 3D digital prototypes used in the design, visualization and simulation of products.

CATIA V5R19: CATIA is the most powerful Knowledge based and widely used CAD (computer aided design) software of its kind in the world. CATIA is used most commonly in Aerospace, Appliances, Architecture, Automotive, Construction, Consumer Goods, Electronics, Medical, Furniture, Machinery, Mould and Die, and Shipbuilding industries.

Ansys 12.0: this software is used in wide range of companies such as aerospace, automotive, electronics, energy, materials and chemical processing, turbomachinery, academia, civil engineering, consumer products, healthcare, sports, and others

Industry Institute Interaction

The department interacts with the industry in order to keep itself updated with the current advancements and industry requirements. Industrial visits and guest lectures are conducted to serve this purpose. All the faculty members encourage & guide student projects in various fields in collaboration with industries.

CIVIL ENGINEERING

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Vision

The vision of the Department of Civil Engineering is to achieve an outstanding recognition in the field of civil engineering education and research that nourishes the students with ethics and values to serve the nation with pride.

Mission

The mission of the Department of Civil Engineering is to provide an unfaltering foundation of a sound theory along with practical knowledge and to create promising civil engineers that respond to current and future needs of the industry.

Degrees Offered	Duration	Intake	Entry requirements
BE [University of Pune]	4 years (Full Time)	60 seats	10 + 2 (HSC)

Introduction

Civil Engineering is the oldest engineering discipline being offered at this institute from the academic year 2014 with an intake of 60 students.

The department of Civil Engineering facilitates the students to specialize in the field of Civil Engineering. The vision of the department is to impart strong background of theory and practical in various aspects of Civil Engineering Problems and to produce quality Civil Engineers who can build the nation with pride and confidence.

The aim of the department is to mould the students as competent and employable civil engineering graduates to cater the needs of industry and society by imparting requisite knowledge and training in different areas of Civil Engineering and emerging technologies.

The course offered is well known for its application in design and construction of various infrastructure projects including construction of transportation facilities roads, bridges and tunnels, metros etc. The course also focuses on construction of Railways, Airways and Waterways including construction of ports and harbours.

Design and Construction techniques of irrigation projects like dams and barrages are part of the curriculum. The course also gives expertise in public health issues like drinking water supply and treatment of waste water from industries.

The department imparts extensive training to its students in planning and designing of various RCC and Steel Structures. Students learn various techniques of Project Management to efficiently manage men, machinery and money.

Academic Activities

Students are encouraged to correlate their theoretical knowledge with real life examples by visiting construction sites and industries. To sustain global competition, innovative techniques will be utilized to expose the students to the latest trends and practices in the construction industry through seminars by experts from fields and technical projects. Students are given chance to take training in research organizations in their vacation period.

The department organizes seminars, guest lectures, conferences and short term courses to faculty and students. A national conference on "Admixtures in Concrete" was organized by the department in association with "Indian Concrete Institute" and "Dr Fixit institute" at Institution of Engineers(India) Pune Center. The department conducts various events like Poster Presentation and Model making competitions for students every year.

Forefront Areas of Research

Presently the department is engaged in research activities on Coastal Waves and Climate Change

ENGINEERING SCIENCES

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Introduction

The Department of Engineering Sciences is engaged in teaching a variety of subjects such as Mathematics, Physics, Chemistry and Communication Skills, primarily to the First year of UG and PG students of all the core branches.

Mathematics plays a key role in scientific, technical education and research. Without mathematical concepts, no research will progress with the desired accuracy. Furthermore, since mathematics education is a major issue; it is our duty to be well positioned to steer our students towards improving their education and learning. Many ideas of abstract mathematics, which were lying in unattended for decades and even centuries are being applied today. Hence it is rightly said that "No form of Mathematics, however abstract it may be is non applicable, it is just mathematics whose application is yet to be found".

The Department is headed by Dr. S. M. Khairnar who is an experienced, popular teacher and dedicated researcher. He is a recognized Ph.D. guide by three renowned universities in India. He is presently supervising five students for the Ph.D. degree. He has delivered plenary and invited talks at various National and International Conferences in India and overseas universities.

The Department has Ph.D. program in Mathematics in the faculty of Science and Ph.D. program in Applied Mathematics in the faculty of Engineering. 9 students completed their PhD in Mathematics in the department.

All technology grows out of fundamental science and to appreciate this important fact, the students of engineering disciplines require a firm grounding in the basic concepts of fundamental science. In modern times, the development of science into new technologies has become faster than ever before. In such an environment, many of today's engineering graduates will be required to participate in the development of new technologies and this requires them to have a sound knowledge of basic Physics and Chemistry, and it is the function of our department to impart this knowledge and training.

Academic Activities

The Department has enthusiastically organizes conferences, workshops and Short Term Training Programs periodically for the benefit of the students, faculty and researchers. The faculty members have visited many countries & participated in International and National Conferences to present their research work.

To foster the students' analytical and creative skills, the Department of Engineering Sciences organizes various co-curricular and extracurricular activities such as industrial visits, model-making competitions, poster-presentations, science day competitions, guest lectures and corporate training programs.

Forefront Areas of Research

The department has well-qualified and experienced faculty members, who apart from carrying out regular teaching work are also engaged in active research in Mathematics, Chemistry, Physics and Humanities. The Department is working on four R&D projects which are funded by Department of Science and Technology (DST), New Delhi, Government of India, National Board for Higher Mathematics (NHBM), Department of Atomic Energy, University Grants Commission (UGC) and BCUD, University of Pune. Two more research proposals have been submitted to AICTE and CSIR for consideration.

Laboratories

The department has state-of-the-art Physics and Chemistry laboratories. Our students get sound exposure to carry out their practical activities in our well-equipped labs. The experienced and qualified faculty members of the department ensure that our students get not only the much necessary theoretical knowledge but also practical exposure of high standards.

HUMANITIES AND PROFESSIONAL DEVELOPMENT

Prof. Amit C. Hiray
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Vision

To emerge as a unique academic centre of high repute which makes a positive impact on the overall personality and career development of its students by fostering their confidence, positive thinking and all the essential communication and soft skills for transforming them into employable graduates and well groomed, cultured and ethical professionals.

Mission

To provide a high quality professional training and counseling to our students for developing their personality, professionalism and thereby employability, leading to their career development in academics and industry.

Introduction

The Department of Humanities & Professional Development endeavours to develop our students' overall personality and professional communication. The department plays a crucial role in building their confidence, communication skills in English (general and business), soft skills and aptitude, thereby transforming them into well-groomed personalities and employable graduates. Besides, the department also runs a certificate course in German and plans to run more foreign language courses in different popular languages other than English. The department functions as a career guidance cell and offers guidance on higher studies by providing complete assistance to our students. The department has a cadre of highly qualified and experienced faculty members who enthusiastically train the students by adopting various innovative and technology enabled teaching methods.

The International Relations Office (IRO) is a part of the department and aims at providing its students a global platform for further education. One of the objectives of the IRO is to give our students exposure to the multi-cultural and global educational environment. MITAOE has international collaborations with some of the prestigious foreign universities. The collaborations give the students a platform to explore opportunities for further education abroad. The students also get to go to these universities for their projects and attending various seminars, conferences and workshops. The IRO conducts various training programmes for the students so as to prepare them for further education abroad and also provides them the necessary assistance. It keeps itself abreast of the current developments in the global education scenario by participating in various national and international events.

The current international tie-ups are as follows:

- Manchester Metropolitan University, UK
- John Moores Liverpool University, UK
- University of Dundee, UK
- iCarnegie Inc. (Carnegie Mellon University, USA)
- London School of Training, UK

Collaboration with the iCarnegie Inc., Pittsburgh, USA and Technophilia Systems Pvt. Ltd., Mumbai

Prof. Paul Orkwis from the University of Cincinnati, USA visited MITAOE recently.

Prof. Sravanti from the Manchester Metropolitan University, UK delivering a lecture on 'Higher Education Opportunities in the UK'.

Events at MITAOE

Keeping in mind the all round development of our students, various co-curricular an extra-curricular events are conducted at the institute as well as departmental levels.

The annual national robotic contest ROBOCON is organized by MITAOE in association with the Doordarshan (Prasarbharti). Robocon, (Robotic Contest), is an interesting game- cum-intellectual exercise for budding engineers and their enthusiastic instructors, determined to innovate and create machines for producing desired results. Participation in this activity involves concept design of a system of robots programmed to perform according to rules of the game played on a high precision technical contest area and to score a victory beating the competitors; all this according to a theme declared by the host country. International Robocon events are mainly sponsored by Asia Pacific Broadcasting Union (ABU) which includes Doordarshan (Prasarbharati) of India. The MITAOE successfully organized the National Robocon 2014 which saw an overwhelming participation from more than 90 institutes from across the country. The institute has also successfully organized the International Robocon 2014 in India in association with the ABU and Doordarshan. The recent National Robocon 2015 witnessed a participation of over 90 engineering institutes including IITs, NITs.

In order to promote awareness about robotics among the school children, we also organize Junior Robocon simultaneously with the national Robocon every year. The Junior Robocon is organised for the age groups from 6yrs to 15yrs. More than 187 teams from 87 schools participated in the recent Junior Robocon Competition. We also hosted the National World Skills competition sponsored by the NSDC, Govt of India. The MITAOE team represented India at the International World Skill competition 2013 held in Leipzig, Germany in the skills of Mobile robotics and Electronics.

'NAKSHTRA' the Annual Social Gathering is one of the most awaited events of the year. Students enthusiastically participate in the various cultural activities such as dance, singing, one act play, drama, and many more organized during Nakshtra. All the departments have their own annual cultural events along with many other co-curricular and extra-curricular activities which are conducted throughout the academic year. All the departments organize national seminars, workshops and conferences in order to facilitate the knowledge exchange in various disciplines. MITAOE also runs a literary group and publishes a cultural magazine 'Ajaan Vriksha' every year which provides a platform to the students to exercise and showcase their creative writing and drawing skills.

Research & Development Cell

Introduction

Research is the extensive expansion of the existing stock of knowledge through high concentration of energy, effort and intellectual thought process that gives new dimensions to ideas, which produce far-reaching and everlasting results. It is the pursuit of novelty with the help of study that includes observation, comparison, experiment, collecting and analyzing facts or data, and reaching desired conclusions either in the form of solution(s) towards the concerned problem or in certain generalizations for some theoretical modeling / formulation. Precisely, the persistent quest for knowledge through objectives and systematic methods of finding solution(s) to a problem is research.

In Research & Development, one does research for the development of new techniques/ methods for inventing and improving a product as per the requirements of industry / society in terms of quality, cost, manpower, energy consumption, time etc.

To facilitate all the R & D activities in our institute among students and faculty members in line with industry, the R & D cell is functional and is being steered by the Principal, Dean (R&D) and active representatives from each department.

Aims

1. To create research awareness amongst our faculty members and students.
2. To facilitate mutual cooperation between researchers for interdisciplinary research.
3. To establish a forward and backward linkage among different sectors like Industry, R&D organizations, foreign universities and apex bodies.
4. To work towards developing MAE as an internationally recognized R&D centre.

Objectives

1. To organize various events like national and international conferences, workshops on research methodology and patents, symposia, guest lectures in order to achieve the pre-stated aim of enhancing the research awareness.
2. To have faster collaboration and interaction with researchers working on disciplinary and interdisciplinary research.
3. To encourage every faculty member for research proposal writing and to participate in R&D activities leading to Doctoral degree.

R & D Activities

1. Organising guest lectures delivered by eminent researchers from industry & academia. (At least once in a month)
2. Deputing faculty members for higher studies and collaborative research to National & International institutes.
3. Extending opportunities to final year students doing their projects to participate in various projects funded and sponsored by the various apex bodies and organizations like UGC, CSIR, ICSSR, DRDO and UOP.
4. Our faculty members are actively involved in various R&D activities like writing research proposals for submission to UOP, DST, AICTE, IBM, DBT, UGC etc, publishing research papers in peer reviewed research journals, presenting research papers in National and International Conferences, delivering talks in Workshops and Conferences, organizing National Conferences, STTP's and Workshops for faculty.
5. Organizing Paper presentation contest for students at national level.
6. Organizing various extra and co- curricular activities for students and faculty members from time to time.
7. Many faculty members have collaboration and MOU with national and international R& D organizations and industry.

Facilities and Incentives

1. Incentives in the form of increments are given to faculty members actively involved in research.
2. Meritorious researchers are given some relaxation in their teaching workload.
3. The institute is also distributing seed money to faculty for their R&D projects to start their research work in the initial phase.
4. Giving partial financial assistance to students, based on the merit of the proposal submitted for obtaining funded projects.

Students Counseling Scheme

The main objective of the scheme is to bring about some qualitative changes in terms of curricular and extra curricular activities in the students' life and fulfill their cherished goal of becoming successful professionals to meet their future challenges. Counselors act as guardians of the students.

In the professional institutes all over India, students travel from across the states for securing admissions. These students face many problems, as they are miles away from home. The problems vary from feeling home sick, language barriers, food, water to many such other issues.

This problem motivated the institute to guide and assist the students to overcome any problems and provide timely assistance not only to improve the career prospects but also to develop them as successful individuals.

A students' counselor is entrusted a batch of 22 students and is expected to act as a parent, friend and a guide for them. These counselors have regular meetings with their batch students and help them in their day-to-day problems or hindrances if any and also are responsible for the performance of those students. The institute provides all the necessary backup support for this. The counselors also correspond with the parents of the respective students as and when required and keep them informed about the progress of their ward.

National Service Scheme (NSS)

Introduction

The National Service Scheme was rejuvenated a few years back in the institute with increase in the unit strength to 150. In accordance with the mission of MITAOE, Imparting value based education to bring out the best of techno minds, the personality development and inculcation of societal attitude among students are fulfilled by this worldwide coveted activity. With the slogan, 'Uthe Desh ke liye uthe', students join hands to change, develop, & progress our society by transforming individuals, themselves & inspiring others to do so.

The MITAOE-N.S.S. has conducted many programmes and as "Action speaks louder than words", the NEWS covered by prominent Newspapers like Loksatta, Sakal, and Lokmat , and the appreciation by the University authorities in open sessions, speak more itself about the volume and quintessence of the work performed by the student volunteers. A Few of the activities conducted by NSS are:

- Celebrations of the World Environment Day by protecting, nurturing and planting trees.
- Cleaning of villages adopted, school and college premises on the eve of Independence Day.
- Glorification and celebration of the Teaching profession by expressing gratitude towards Gurus by arranging various programs on Teachers' Day.
- Organizing Guest lectures, exhibitions on Engineers' Day.
- Helping lakhs of Warkaries (pilgrims) visiting the pilgrimage Alandi, blessed by Philosopher Saint Shri Dnyaneshwar, situated on the banks of the Holy River Indrayani

- Cleaning of river banks, the Ghats, during processions and spiritual functions at Alandi.
- Removal of plastic garbage from river Indrayani, forests near by, and places of public use to reduce pollution.
- The NSS unit has set up a continuous monitoring unit to inspect the pollution of the river caused due to irresponsible attitude of industries, and municipality authorities by sending waste water into river without treatment.
- A Special Winter Camp is organized every year in the month of January. 50 students participate in this totally 10 day residential camp.
- The 3rd Commonwealth Youth Games also witnessed the devotion of MITAOE NSS Volunteers.
- Recently we arranged several special camps at the nearby villages. Numerous significant social and cultural activities were conducted during the camps.

MIT Academy of Engineering

NCC

Dr. Sanjay Deshmukh
Flight Lieutenant
Director - NCC, HR & Social Liasioning
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Email: sanjay.deshmukh@mitpune.edu.in

"National Cadet Corps" is considered to be the second line of defense for the country. Youthful, energetic, sincere & patriotic boys & girls come together and work as NCC cadets, with the motto, "Unity & Discipline". NCC helps a great deal in shaping up the overall personality of these young men & women, who would be the responsible citizens of tomorrow & in whom lies the future of the country.

The training imparted to the cadets is rigorous and is oriented towards inculcation of officer like qualities and leadership. Importance of qualities such as sincerity, honesty, unity, brotherhood, bravery, resilience, single mindedness, resourcefulness etc. is imbibed onto the young minds in systematic and disciplined manner. The 'cardinal principles' which make sound foundation are obey with smile, punctuality, work hard without fuss, make no excuse & tell no lies.

On MIT Campus, the activity of NCC was started in the the year of 1995. Within the span of twenty years, the troop has flourished in to a huge family and is comprised of the cadets belonging to all three wings of NCC along with NCC volunteers. National Cadet Corps and allied adventure, social, cultural, academic & co-curricular activities constitute a very special feature of MIT, a premier professional institution of national repute.

The training imparted is rigorous and consistent. This includes weekly theory classes on service subjects, basic foot drill, weapon drill, adventure activities like trekking, water sports, aero sports, actual power flying, aero modelling & ship modeling. Apart from this, the troop offers excellent exposure and awareness about social service and environmental activities as an important aspect of training.

The social activities include regular organization of blood donation drives to provide blood and allied components to a number of blood banks, hospitals and patients. Voluntary help is being offered to advanced stage cancer patients at Cipla Palliative Care & Training Centre. Work is being carried out to help HIV positive children and women, thalassemia patients, old age homes and orphanages. These activities are carried out throughout the year except exam time.

Quality cultural programs are performed at various occasions, which provide platform to showcase a variety of talents. Efforts are made continuously to enhance the academic performance of all troop members by way of discussions and by conducting tests, orals and knowledge enhancement sessions. Counselings are conducted regularly for improvement in academics, overall personality and for judging the best possible career options. The troop members are always involved in searching for likeminded personalities and convincing them for good social cause.

To carry out all the above mentioned activities in systematic, disciplined and efficient manner, the total strength of the troop is divided in to five committees based on the hierarchial pattern. This helps a great deal in distribution of work & responsibilities, development of specific skills and leadership qualities.

The MIT NCC TROOP offers a single package for Value Based Universal Education System, which is perfectly befitting to the present day requirement of grooming of students as Deployable Quality Manpower for Industries and Other Sectors.

We are always looking out eagerly for energetic, enthusiastic, smart and likeminded youth with positive attitude to join this Multidisciplinary Approach for Nation Building.

International Education Center

Prof. Sudhir N. Rane
Director, IEC
D.C.E. B.E. (Civil), D.B.M.,
M.M.S. (Marketing), M.M.S. (Materials), LL.B.
(Labour Laws) L.M.I.E. (India)., L.M.I.S.T.E. (India).

India, the land of knowledge, endless resources and brightest of talents, has been and shall always be everybody's favourite when it comes to quality education. Pune, being an integral part of this abundantly gifted country, has always been the educational hub for students, in India and across the seven seas too. What attracts young minds is the learning environment and the knowledge spread by the Institutes in this city.

Since its inception in 1983, MAEER MIT Pune Institutes has become the most preferred Institute by students. The knowledge-packed syllabus, reputed faculty members and extensive infrastructural facilities makes MIT, Pune an ideal place for learning. One step into the freshness of its location and students find themselves travel into a different mesmerising world altogether. And once they are a part of this wonderful Institute, they form an unbreakable bond with it.

MAEER's International Education Centre, Pune was established in 2003 to cater to the needs of promoting the Indian Education system abroad i.e. in the foreign countries it also facilitates the recruitment of International students to various programs offered by large expanse of accredited Institutes of MAEER's MIT Group of Institutions, Pune India.

MAEER's MIT, Pune is one of the premier Institutes in the field of Engineering Education for Indian and Foreign students and it is one of the first Institutes established in the city of Pune, Maharashtra which was granted with a permission to admit the foreign students including the students under CIW quota from Gulf and Southeast Asia under the 15% SUPERNUMERARY QUOTA by All India Council For Technical Education, New Delhi an autonomous regulator of Government of India in 2002.

The admissions to the International Students in affiliated colleges including MIT, Pune Institutes are regulated by University of Pune through International Students Centre located in University of Pune Campus. The various courses offered by MIT Pune Institutes are accredited by National Board of Accreditation and NAAC. These programs are recognized by the Ministry of Sciences, Research & Technology, Government of Islamic Republic of Iran and other Governments of different countries in the world.

MAEER MIT Pune Institutes offer Undergraduate (UG) and Postgraduate (PG) as well as Doctorate (Ph.D) programs in Engineering, Management, Commerce, Pharmacy,

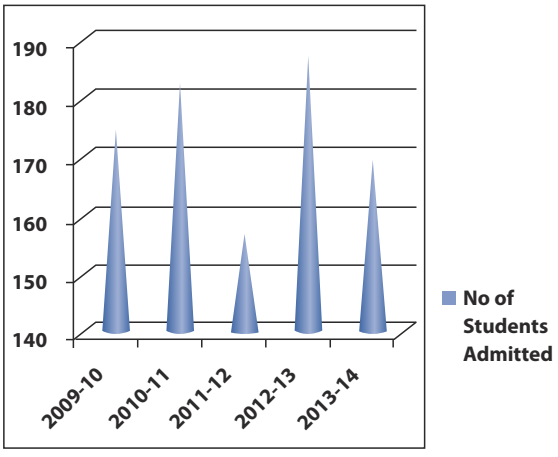
Medicine, Science, affiliated to University of Pune. These programs are approved by Government of India and various regulating councils such as AICTE, MCI, PCI.

MAEER's International Education Centre is a SINGLE WINDOW FACILITATOR for the International Students.

MAEER's Group of Institutions, Pune has the highest number of International Students numbering 170 students in the year 2013 - 2014. MAEER IEC enrolled 26 students in 2003 – 04 now we are growing at a faster rate.

Year	No of Students Admitted
2009-10	175
2010-11	183
2011-12	157
2012-13	188
2013-14	170

Enrollment of Supernumerory Quota



Normally every year more than 50% of the seats are filled under 15% Supernumerary Quota for FN / PIO / Children of Indian workers in Gulf Countries & South East Asia Region.

	Total Intake (15% Supernumerary)	Seats Filled
Engineering		
Under Graduate (BE) Courses	96	75 %
Post Graduate (ME) Courses	20	60 %
Pharmacy		
Under Graduate (B.Pharm) Courses	09	100 %
Management		
Under Graduate Courses (BBA, BCA, BBM, B.Com, B.Sc. (Comp))	132	75 %
Post Graduate (MBA) Courses	18	75%

The students of around 40 different countries today take the benefit of education offered by MIT Group of Institutions, Pune. Names of few countries whose students are studying at MIT Group of Institutions today are:

1	Nepal
2	USA
3	Uganda
4	Mongolia
5	China
6	Congo
7	Burundi
8	Saudi Arabia

9	Bhutan
10	Sudan
11	Qatar
12	Saudi Arabia
13	Yemen
14	Rwanda
15	UAE
16	Iran

17	Afghanistan
18	Senegal
19	Thailand
20	Palestine
21	Togo
22	Bahrain
23	Kuwait
24	Singapore
25	Iraq
26	Tanzania

27	Cambodia
28	Kenya
29	Oman
30	Ivory Coast
31	Maldives
32	Korea
33	Kazakhstan
34	Vietnam
35	Bangladesh

Travel abroad widens the scope of our mission of spreading the information about Gospel of knowledge available within MIT Group of Institutions Pune towards the masses globally. India is well known for the same all over the world. In tune with the national policy of developing and promoting knowledge oriented society and global community MAEER`s MIT, Pune initiative of IEC is very important and also logical. That is fulfilled by communicating with Global Community through exhibitions.

MAEER's International Education Centre participates in the exhibitions held in Dubai, Nepal, Bahrain. We also visit the schools in the Gulf which is the major market of MIT, Pune Institutions.

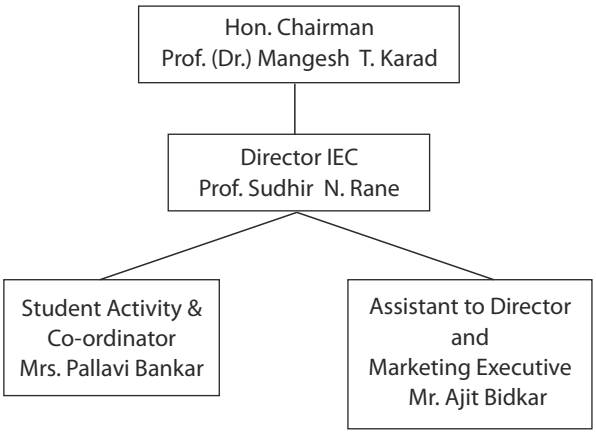
We at MIT Pune Institutes have a good number of foreign students from friendly nations of India sponsored fully for their Education here by Indian Council for Cultural Relations (ICCR), New Delhi and Government of India. Few Students from Countries like Afghanistan, Cambodia, Kazakhstan, Malaysia, Maldives, Mongolia, Myanmar, Nepal, South Korea,

Syria, Thailand, Uzbekistan, Vietnam and Yemen are sponsored by ICCR.

MAEER's IEC is a regulating body for International Admissions in MAEER MIT, Pune Institutes and provides assistance in the admissions to NRI/PIO/CIW and foreign students in various colleges run by MAEER's. Hostel accommodation, academic and social counselling etc is provided by MAEER's International Education Centre as per the need and requirements of the students.

MAEER's IEC acts as a catalyst between International Students, MAEER's MIT Pune Institutes and University of Pune.

Prof. Sudhir N. Rane is the Director of MAEER's International Education Centre Pune and looks after the day to administration, admissions and liaisons of the students admitted through this centre.



For admission and information procedure please feel free to Contact:

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MAEER's International Education Centre,

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Email: maeeriec@mitpune.com; 2snrane@gmail.com
URL: www.mitpune.com

Maeer's Mitians Past Students/Alumni Association

MAEER'S MITIANS PAST STUDENTS/ALUMNI ASSOCIATION was formed in October 2005 with the aims and objectives of promoting the welfare and all-round development of student community and the institute at large with the contribution of the Past Students. MAEER's MITians Past Students/Alumni Association is a Public Trust registered with the Charity Commissioner under the Bombay Public Trust Act 1950 vide Registration No. F21515 dated 19/09/2006 at Pune.

Our alumni are our most respectable resource persons from their core discipline and from whom we expect enormous as well as comprehensive assistance about their fields of work which they truly satisfy. They help our organization, being past students, to grow intellectually by sharing their experiences with our present students.

With their rich post-academic experience, they as asset to us and with their practical experience they definitely contribute towards some new innovatory projects and schemes which we propose and plant to launch and carry out. The knowledge of their practical field experience and various developments place a premium on the present young students possessing some superior skills and talents in the emerging Engineering Sciences.

We aim at consolidating the bond between our Alumni and our present students. We keep the alumni informed about the developments that are taking place in our Institution thus realizing our aspirations to be one of the India's leading institutions with regard to teaching continuing education, research, community services and different programmes.

The numerous students with undergraduate and post graduate experience in MAEER Institutions, Maharashtra are part of the Alumni family. In order to bring together all MAEER's past Students, the Alumni Office traces Indian and Foreign students who have graduated from MIT.

Slowly but steadily the Alumni Association is establishing groups of MIT's alumni in various states/cities, within and outside India in order to provide the opportunity to establish links, exchanges and friendships between fellow alumni nationwide/worldwide.

MAEER, MIT Alumni Association has started honoring some of our distinguished alumni since 2007; by awarding the prestigious "Jewels of MIT Pune Awards" MIT Alumni has really done well and have achieved success in different walks of life in various areas such as arts, science, politics, service industry, education and culture. We feel it is our duty to honour all such alumni so as to recognize their contributions towards society.

Distinguished Alumni of MIT are:

1. Hon. Shri Rajesh Tope, [Minister of Higher & Technical Education, Maharashtra].
2. Mr. Sandeep Mantri, [Chairman & MD, Mantri Properties Pvt. Ltd., Pune].
3. Mr. Girish Wagh, [Head, Small Car Project-NANO, TATA Motors, Pune].
4. Mr. Sameer Hiremath, [Deputy Managing Director and Board Member of Hikal Ltd., Mumbai].
5. Dr. Mangesh Karad, [Eminent Educationalist].
6. Mr. Abhay Tipnis, [Vice President, Satyam Computers Services, Dubai].
7. Mr. Milind Torawane, [Indian Administrative Service].
8. Dr. Nitish Chawla, [Assistant Professor, Computer Science Engineering, University of Notre Dame, US].
9. Mr. Chetan Kajaria, [Joint Managing Director, Kajaria Ceramics Ltd.].
10. Ameet Nivsarkar, Vice President, NASSCOM].
11. Dr. Sachin Jain, [Manager, Research & Technology, DSM Engineering Plastics India Ltd.].
12. Colonel Atul Apte, [Indian Army].

Library

MIT

A Library endowed with the latest books and periodicals forms the backbone of any educational institute. Our library system supports the teaching-learning program of the institute. We have an excellent collection of text books, reference books, general books, journals and magazines, book bank facility books, encyclopedia, handbooks, data sheets, bound volumes, CD-ROMs, Floppies and other reading material.

MIT Library Features

Total Stock: The total number of books exceeds 80331 including more than 75557 technical books.

Expanse: There are separate halls, Reference Section, Circulation Section, Two Reading Halls, Journals and Digital Library with 20 pcs is available for its users, Traditional Science Section.

Computerization: The library is computerized using SLIM21 Software and independently uses one server (Reference Section) with Seven terminals. An internet connectivity also is operated for addition of new books selected from various web-sites; in addition to routine selection and procurement process. Web based OPAC is also made available.

Technical Journals: Library regularly subscribes to 168 titles of which 12 are international titles. Also eight more journals are received gratis, which include three foreign titles. The library subscribes to 07 online data-bases namely : ASCE, ASME, IEL Online, Science Direct & J-Gate EBSCO. This facilitates access to online journals with back-issues.

CDs: A separate stock of over 2200 CDs is maintained separately.

Magazines and Newspapers: 15 newspapers and 10 magazines are regularly subscribed and are made available in Reading Hall for students and staff.

Reprographic Facilities: Library extends reprographic facility to its users. Central library owns an A3 Printer-Scanner-Copier.

Digital Libary: A Digital Libary with CDRom Server is available for the student's access. Digital Library is provided with internet connections and power backup to access the online information and utilize the available e-resources. Twenty computers with one printer are made available for the users in the Digital Library.

Library subscribes ten online journals / Databases viz. IEEE, ASME, ASCE, Elsevier Science Direct, J-Gate(Engineering), J-Gate (Management), EBSCO. It includes more than 1500 e-journals and e-books. Standards covering all the branches of Engineering and Management (MBA), NPTEL lecture series is also available in the Digital Library. Old University question papers are made available through intranet. NPTEL lectures are available in the digital library.

FTP (File Transfer Protocol) has been developed in our Central Library for digital library users. Approximately two thousand books, covering all branches are downloaded from various academic sites. PDF files are classified discipline wise and made available to the users.

The Libary is computerized with Slim ++ Software.

World Peace Centre Library

The "World Peace Centre Library" organized under MIT library boasts of collection on varied subjects such as philosophy, humanities, religion, human rights, vedic studies, yoga, literature, psychology, management, education and related subjects. These books are used by students and staff for overall personality development.

Library

MITCOE

Library plays a vital role in acquiring, organizing and disseminating knowledge resources. The state of art infrastructure to meet these requirement and automation of the transaction processes through SLIM 21 software providing access to the knowledge base through Online Public Access Catalogue (OPAC) is in place. Usage of Bar-code Technology for transaction of books is in place.

Library has an excellence collection of books & journals and other non book reading material in the form of CD-ROMs and DVDs. One important component of Library is "Digital Library" which has pool of 10 machines connected to internet for surfing worldwide knowledge. Variety of professional E-journals is accessible to Faculty, students and Research Scholars. Over more than 250 students can take advantage of Library Reading Hall facility which is fully air conditioned and has excellent ambience which encourages and enhances the involvement of students in studies.

Library Services

1. OPAC: Library has Online Public Access catalogue (Books Search)
2. Home lending: Books are issued to the students and renewals of the books.
3. Air Conditioned Reading Hall Books Service: Ten books are issued for same working day.
4. Journals & Reference section: For referring hardcopy of journals & reference material.
5. Photocopy Service: Photocopy service is provided to the Faculty and students.
6. Reservation Service: The required book can be reserved.
7. Access to Other Libraries: We have tie ups with British Library, ARAI Library etc. for access of knowledge base.

Knowledge Repository Books Collection: 26132

Total Volumes: 26132 Total Titles: 5421

Reference Books: 835 CD's and Video Cassettes: 1500

National Journals: 121

Online Databases / E- Resources/International Journals

1. IEEE ASPP online: http://www.ieee.org/ieeexplore
2. McGraw-Hill's Access http://accessengineeringlibrary.com/
3. Springer Mechanical Engineering http://www.springerlink.com/
4. Springer Electrical, Electronics, http://www.springerlink.com/
5. Elsevier Science Direct http://www.sciencedirect.com/
6. J Gate -Journal Package http://j-gate.informindia.co.in/
7. ASTM Digital Library http://www.astm.org/
8. NPTEL Resources available in the Library

MITCOE Digital Library

http://babankumbhar.blogspot.com

Let us make use of this knowledge repository and contribute in the process of nation building through application of this knowledge base for betterment of society.

Library

MITAOE

MITAOE Central Library

MITAOE Central Library supports the teaching - learning program of the institute. The library boasts of having an excellent collection of text books, reference books, general books, journals and magazines, book bank facility, encyclopedia, handbooks, data sheets, bound volumes, CD-ROMs Floppies and other reading material.

Salient Features of Library

- Astate-of-the-art infrastructure covering an area of 900 sq.m.
- It is the first ISO certified engineering library in Pune.
- It is also the first engineering library in Pune that implemented barcode technology for circulation.
- Total expenses of books and journals from the time of establishment is 1 crore 92 lakhs.
- MITAOE central library has a budget of Rs. 30 lakhs for books and Journals every year which fulfills the requirements of all the department of the institute.

- It has an air conditioned reading hall with a conducive atmosphere and is also adequately light.
- The library has more than 26000 books and 158 print journals
- It has a collection of more than 2977 CD-ROM,183 floppies of respective subjects
- The library has subscribed IEL online e-journals (it includes IEEE & IEE journals) through AICTE-INDEST Consortium Delhi.
- The library has subscribed to institutional membership of Libraries like IIT Bombay, BCL Pune, ARAI Pune and Pune University for providing documentation support to its readers.
- The Library also has subscribed to DELNET membership in order to increase the resources provided to our readers.
- All the operations are computerized with an open access to the library collection
- In order to make optimal use of the library resources, the library remains open from 08.30am to 10.00 pm from Monday to Friday & 09.00 am to 05.00 pm on Saturday, Sunday & other holidays, except on three national holidays & during Diwali vacation.
- We at the central Library provide 5-7 books for a period of 15 days to the students as against 2-3 books provided in other colleges.
- The library has subscribed to J-Gate Management Science e-journals through J-Gate Informatics (India) Limited.
- The library provides an excellent book bank facility to all first year students. A set of 10 books is issued among two students for a semester. For SE, TE and BE students book bank is issued on merit basis to the first three toppers and to SC/ST and economically backward students
- MITAOE provides access to digital library, through which readers can access Old Question Papers, Syllabus, BE Project Report, Educational CD-ROMs & Video Lectures throughout the campus.

The Library offers a vast range of Services like : Reference Service, Users Orientation, Reading hall copy facility, Overnight issue, New Arrival Alert, Seminar & Conference Alert, Accessing CD-ROM, News Paper Clipping, Web OPAC, Book Reservation, Internet Facility, Old question paper bank, Xerox facility, Document Scanning & printing etc.

Hostel Co-ordination Unit

Dr. Ramachandra V. Pujeri
Rector, Boys Hostel
Ph.: +91 20 30273418

Mrs. S. M. Patil
Rector, (Girl's Hostel)
Ph.: +91 20 30273649

MIT & MITCOE, PUNE

We have three fully furnished hostel buildings. One building is ment for boys and two buildings are for lady-students. The campus hostel is located on Paud Road in silent & fully green ambience, most essential for engineering students. All the hostel buildings are provided with 24 hrs. security guards. Boys hostel is a five-storey building having accommodation for 400 students. Two separate buildings are ment for Lady-students, one in MIT School / Hostel campus near MIT boys hostel, with a capacity of 300 lady students and another building is located in the MIT College Campus, accommodating 175 lady-students.

There are various facilities in hostels like - canteen, good quality drinking water, hot water for bath, etc. For entertainment the T.V. sets are available in recreation halls. However, watching time is pre-defined. A Doctor visits the hostel, twice a week to conduct medical check-up. Hostel accommodation is allotted to students strictly on merit basis during the first year International students are given preference. Hostel buildings (one for boys and one building for ladies) are located at S. No. 127/C, in MIT School / Hostel Campus, near Mahaganesh Colony, opp. More Vidyalaya bus stop, Paud Road, Pune-38 .

If you prefer to take up private accommodation, our hostel offices will provide you with the necessary information of accommodation available to MIT campus.

Students interested in admission to the hostel will have to apply immediately after confirming their admissions.

MAE, ALANDI

MAE offers its students well-segregated (Boys and Girls separate) & cost – effective hostel facilities. The hostels are equipped with modern infrastructure and other significant amenities. They are located on the campus of the institute. The hostels provide our students with warm, safe and secure environment. All inmates of the hostels have to observe the prescribed rules and code of conduct. The boys hostel is a three-tier building with an accommodation for 300 students. The accommodation is on a twin – sharing basis.

Girls have separate hostels with modern infrastructure and necessary amenities. The girls' hostels have a capacity of accommodating 150 girl students. Strict discipline and parental caring is the specialty of these hostels.

The facilities available and other details about the hostels are enlisted as below

- There is a common kitchen cum vegetarian mess, which is under the control of management committee.
- Every inmate of the hostel is provided with adequate furniture (Every room has a wardrobe, study table, book shelf, pinup board, mirror and a ceiling fan).
- Each hostel is equipped with the Internet connectivity and a recreation hall which is equipped with table tennis, carom board, chess & many other indoor games facilities.
- There is 24 hrs security and housekeeping for the hostel buildings.
- New blocks have been & are being added to the hostel.

Others Amenitis

Dr. R. P. Mitkar
M. D. (Hom)
Medical Officer, MIT, Pune
Ph.: +91 20 30273648

Medical Facility

Fully equipped dispensaries with doctors are available at Kothrud and Alandi premises. Various medical check ups and campaigns are held free of charge for all the students and faculty members during every academic year.

Canteen

Spacious and well-equipped canteen facility is available at Kothrud and Alandi campuses. A complete and planned meal is served in neat, clean and hygienic surroundings. Apart from north and south Indian nutritious break-fast, lunch and dinner, the canteen also serves tasty

Chinese food. Tea, coffee & soft drinks along with snacks are also available. All the items are reasonably priced. Monthly Mess facility is also available for the students as well as staff members.

Banking Facility

Financial transactions, either with the institute or personal, are an inevitable part of a student's life. To provide the banking convenience to students and staff members, a branch of the 'Bank of India' is available with an ATM center at Kothrud Campus. An extension counter of 'Union Bank of India' with an ATM Center is available at the Alandi campus.

Internet Centre

MIT, MITCOE and MITAOE offers the latest computer equipments and software to ensure that students have a ready access, to up to date technology. A well-equipped internet center is available to the students for browsing. It is connected with a leased line to facilitate high speed internet surfing. State-of-the-art IBM servers are connected through a structured network. Printing facility is also available to students and staff.

To provide optimum browsing services to the students, the internet centre remains open on all seven days in a week from 8 am to 10 pm.

Auditorium

Our Kothrud and Alandi campus has state-of-the-art auditorium. It is sound-proof, fully digitalized and centrally air-conditioned. It also has audio-visual facility for all type of seminars, conferences and presentations. A ceiling mounted LCD projector facilitates easy and effective presentation.

Sports, Recreation & Students Welfare

Shri P. G. Dhanave
Director of Physical Education
B.Sc., M. P. Ed., SET
Ph.: +91 20 30273647
Email : pgdhanave@gmail.com

Prof. Ajit B. Deore
Co-ordinator
Student Welfare Committee
MAEER's M.I.T., Pune
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Email: ajit.deore@mitpune.edu.in

Sports are an integral part of the personality development. With this view, we at MIT / MITCOE / MITAOE encourage our students to participate in various sports activities. The sports grounds at our Kothrud and Alandi campuses are well maintained and house a number of game facilities like basketball, cricket, football and lawn tennis. Our Kothrud & Alandi campus has a well equipped Gymnasium with ultra modern facilities. Indoor facilities such as Table tennis, carom & chess are both the campuses. Wrestling facility is available at Kothrud campus, while Alandi campus has a well developed jogging track to cater to the needs of the health freaks. Our students have participated and won number of prizes at Inter-Collegiate, University, State and National Levels. We have successfully organized several sports tournaments including Inter-Engineering Athletic Meet, cricket, basketball, volleyball, table tennis tournaments, University zonal level boxing, badminton, Squash Chess tournaments and inter-professional college volley ball, basketball tournament etc. We also conduct the National level inter-engineering mega sports meet called" SUMMIT", which is included 15 major events.

MIT Information & Communication Technology (MIT-ICT)

Prof. Charudatta V. Kulkarni
Head of Dept.
M.Tech. (E&TC)
Ph.: +91 20 30273553
Email: charudatta.kulkarni@mitcoe.edu.in

ICT

Information Technology plays a vital role in research, teaching and administration of the MAEER's MIT Group of Institutions. However, the role is to provide access to information and services, and the technology should not drive the way the institution operates. In order to deliver a convenient access to information, improve communication, collaboration and learning; and ensure a flexible, responsive and above all a reliable system, CICS works to achieve this goal. The department looks after the in-house implementation of Computer and Communication Networks, Designing and Development of Websites, Email management, E-learning and IT Procurement. The department also takes care of UPS maintenance, Telephone maintenance.

Networking & Web Administration

The department is the support, the backbone of the networking and hardware infrastructure. The department works to manage the network of the campus. Maintaining IP structure, bandwidth regulation, handling traffic problems, workgroup planning, resource sharing are the important work areas in which tasks are carried out by the department.

Website Design & Development Department

The department works to deliver a mean to portray their existence and establish the mark across the globe for MAEER's MIT group. This department works right from Design and Layout of the websites till the Hosting and Maintenance of the websites. Department has developed websites of many institutes and continues to update and maintain them.

E-Mail Management:

In order to create a distinct image of the institute and a strong platform to prove its presence in the field of education excellence, the Email Management department strives to manage the email related activities. The creation and maintenance of the professional email ids for Staff and Students of the institutes is carried out completely by the department.

E-Learning

The department works in the learning management system (LMS) like Moodle for web-based learning, computer-based learning, virtual classroom opportunities and digital collaboration. It helps MIT to stand different from other institutes and perform network-enabled transfer of skills and knowledge.

IT Procurement

The department works to provide quality IT products and services in a timely manner to the institutions under MAEER's.This department works for providing, regulating and maintaining the resources and services related to IT, to the staff and departments.

UPS and Telephone Maintenance

To satisfy the increasing need to communicate within and outside the organization, the department works for providing, regulating and maintaining the intercom and the landline connections to the staff and departments. The UPS and other power related issues over the MIT campus are also handled by the department. It regulates the issues arising due to power failure and provides backup support at the time of power off.

Scholarship, Awards, Gold Medals & Prizes

Academic Prizes and Awards

Merit and extra-Ordinary merit, must be recognised, respected and duly honoured. We have been fortunate in receiving excellent support from the Trustees and staff members, who have come forward and installed sixteen Gold Medals. Further, six memorial prizes have also been established by the parents of six of our students, who were prematurely snatched away from us.

Details of the 16 gold medals, are as follows:

No.	Name of the Gold Medal	Installed By	For Performance In
1	Shri Saraswati Gold Medal	Prof. Vishwanath D. Karad	Best amongst toppers at BE
2	Shree Gold Medal	Prof. Vishwanath D. Karad	Best Outgoing Student
3	Late Shri Yashwantrao Chavan Gold Medal	MAEER's MIT, Pune	Best Student
4	Late Shri Vasantdada Patil Gold Medal	MAEER's MIT, Pune	Topper in BE (Mech-Sand)
5	Shri Vasantrao Naik Gold Medal	MAEER's MIT, Pune	Topper in BE (Petrochemical)
6	Motorola Gold Medal	Motorola Incorporates USA	Excellent amongst the students of Comp. / E&TC Engg. at BE
7	Yogamaharshi Late Shri. Shelarmama Gold Medal	MAEER's MIT, Pune	For All Round Performance
8	Shri Mahalaxmi Gold Medal	Mr. Balasaheb Ghaisas & Dr. Suresh Ghaisas	Topper in BE (E&TC)
9	Dnyandeep Gold Medal	Mr. Bhaskarrao Avhad	Topper in BE (Mechanical)
10	Vishwakarma Gold Medal	Mr. Avinash Wardekar	Topper in BE (Civi)
11	Jagannath Gold Medal	Late Prof. S. J. Bhide	Topper in BE (Computer)
12	Siddhivinayak Gold Medal	Late Prof. M. V. Joshi	Topper in BE (Polymer)
13	Shri Samarth Gold Medal	Prof. J. N. Wartikar	Topper in BE (Petroleum)
14	Shri Keshavlal Nathubai Shroff Gold Medal	Prof. J. P. Shroff	Topper in the subject Quantity Surveying & Cost Evaluation at BE (Civil)
15	Prabhakamal Gold Medal	Late Prof. A. K. Pathak & Family	Topper in BE (Information Technology)
16	Late Shri Bhagavan Sahay Gold Medal	Shri Atul Sahay	Topper in GEO Science related subjects of Petroleum Engineering Branch

GOLD MEDALS

Shri Saraswati Gold Medal

This is an extra-ordinary prestigious and coveted Gold Medal, to be given to the most brilliant academic rank holder. The student qualifying for this medal must be a top ranker from Xth std. To B.E. Final examination (both inclusive). This calls for consistent excellence in academic performance throughout.

Our Founder Director and well-known teacher and educationist Prof Vishwanath D. Karad has installed this Gold Medal in the memory of his respected mother Late Sau. Saraswati Dadarao Karad.

Shree Gold Medal

For the best outstanding personality and all-rounder. Prof Vishwanath D. Karad, founder of Maharashtra Academy of Engineering and Education Research, Pune has installed this GOLD MEDAL as the Founder's Medal.

Late Shri Yashwantrao Chavan Gold Medal

For the best outstanding personality and all-rounder of MIT. Installed by MAEER'S MIT, Pune in the memory of late Shri Yashwantrao B Chavan, the great patriot, and architect of modern Maharashtra and First Chief Minister of Maharashtra State.

Late Shri Vasantdada Patil Gold Medal

For the Top Ranker BE (Mechanical Sandwich). Installed by MAEER'S MIT, Pune in the memory of late Padmabhushan Shri. Vasantdada Patil, former Chief Minister and architect of the policy of non-aided technical and medical education in the State of Maharashtra and who had laid down the foundation stone of MIT in the year 1983.

Late Shri Vasantrao Naik Gold Medal

For the Top Ranker BE (Petrochemical) Installed by MAEER'S MIT in the memory of Late Shri Vasantrao Naik, the most famous Chief Minister of Maharashtra and a pioneer of green revolution in Maharashtra State.

Motorola Gold Medal

Installed by Motorola Semiconductors, one of the world's leading manufacturers of electronic equipment. To be awarded to the most outstanding and all-round student in electronics, electrical and computer engineering disciplines.

Yogmaharshi Late Shri Shelarmama Gold Medal

For best all round performance during four year Engineering. Installed by MAEER's MIT, Pune in the name of Yogmaharshi Late Shri Shelarmama.

Shri Mahalaxmi Gold Medal

For the top ranker in B.E. (E&T/C) Installed by Shri Balasaheb Ghaisas and Dr. Suresh Ghaisas, from the Ghaisas family, who have donated their 16 acre land on which our buildings stand today. The GOLD MEDAL is in the memory of their respected father, Late Shri Govind Janardan Ghaisas.

Dnyanadeep Gold Medal

For the Top Ranker in B.E. (Mechanical) Installed by Co-Founder of MIT and a well-known Advocate Shri Bhaskarrao Avhad, in the memory of his respected father Late Shri Eknathrao Bhagwatrao Avhad.

Vishwakarma Gold Medal

For the top ranker in B.E. (Civil) Installed by well-known industrialist Shri Avinash Wardekar in the memory of his respected father Late Shri Shridhar Vishwanath Wardekar.

Jagannath Gold Medal

For the Top Ranker BE (Computer) Installed by Late Prof. Shrikrishna Jagannath Bhide, former Secretary of MAEER, in the memory of his respected uncle late Shri Sadashiv Vinayak Bhide.

Siddhi Vinayak Gold Medal

For the top ranker B.E. (Polymer) Installed by Prof Madhukar Vinayak Joshi, a well-known devoted teacher of MIT and U.D.C.T. Mumbai, in the memory of his respected father, Late Shri Vinayak Vasudeo Joshi.

Shri Samarth Gold Medal

For the top ranker in B.E. (Petorleum). Installed by well-known mathematician and an eminent teacher Prof Jayant Nagesh Wartikar, in the memory of his respected father, Late Shri Nagesh Anant Wartikar.

Keshavlal Nathubhai Shroff Gold Medal

For the student who stands first in the subject of Quantity Surveying and Cost Evaluation at B.E. (Civil) examination. Installed by Prof J. P. Shroff in the memory of his respected grandfather Late Shri Keshavlal Nathubhai Shroff.

Prabhakamal Gold Medal

For the first rank student from BE (IT) MIT. Installed by late Prof. A. K. Pathak in the memory of his parents, late Kamleshwar Bhaurao Pathak & late Prabhawati Kamleshwar Pathak.

Late. Shri. Bhagavan Sahay Gold Medal

Toper in Geo-science related subjects of petroleum Engineering Branch. Installed by Shri. Atul Sahay in the memory of his father late Shri. Bhagavan Sahay.

Endowment Award

Indian Plastics Institute's "Professor M V Joshi Platinum Jubilee Endowment Award" of Rs. 7,500/- cash to a student of Polymer Engineering securing maximum marks in the subjects related to Polymer Processing, Mould, Die and Product Design.

Endowment Scholarship

In the memory of Late Vaibhav Kanitkar who as a past student of MIT, two scholarships are paid from the annual interest of Rs. 2,00,000/-. An equal amount is awarded to two students:

Entering in SE (E&T/C) and Entering in TE (E&T/C)

The criteria for the award of this scholarship are merit as well as need.

About Pune City

History

A small village inhibited by Kolis and Musicians during 6th and 7th Century, Punnyapattanam (City of auspicious deeds) grew into today's metropolitan city of Pune. Like it's geographical location at the banks of nearly 5 rivers, the city has been influenced from many cultures. Nestled in the picturesque Sahyadris (the Western Ghats), just 160 km southeast of Mumbai, Pune is a superb blend of history and modernism. Base of the Great Maratha Emperor, Chhatrapati Shivaji Maharaj and the Peshwas, the city has been a cultural capital of Maharashtra for centuries. Pune is considered as the Oxford of India with its many educational and research institutions apart from other institutions for sports, yoga, ayurveda, culture and social services. Pune is also one of the most advanced industrial belts of the country and fast emerging into the second Silicon Valley of India with the presence of IT giants like Satyam Computers, Mahindra-British Telecom and Infosys to take a few names.

Transport

City Buses: Pune Municipal Transport (PMPML) buses reach every part of the city, 'to and from' MIT Campus.

Local Transport: Auto rickshaws, six-seaters, municipal and private buses, rental cars and bicycles are available.

Local Trains: Local Electric trains (locomotives) run between Pune-Lonavala, Pune-Daund and Pune - Talegaon

Distances

MIT- Lohgaon Airport - 20km, MIT-Pune Railway Station & Bus Stand: 10km, MIT-Shivajinagar Railway Station & Bus Stand: 5km and nearest International airport (Mumbai) : 180km.

How to Reach

Railway: Pune is one of the Deccan's most important railway stations. All Express and Mail trains stop here. Pune is well connected to Mumbai and other parts of the country.

Buses: Pune has 3 bus stations, located at Railway station, Shivajinagar and Swargate. Buses ply to all major towns and cities in Maharashtra. A deluxe service called Asiad is available between Pune and Mumbai. The first bus departs at 0530 hrs and there after the frequency is every 15 minutes till 0030 hrs.

Air: Pune is well connected to all major cities across India through air. Every day 30-35 flights from all renowned companies comes in and goes out of Pune.

Religion

Pune is a cosmopolitan city with people from all religions living harmoniously. A number of temples, Gurudwaras, Churches and Mosques are located across the city.

Eating and Accommodation

Pune has the very best facilities in dining & accommodation. Right from five star, three star hotels, the city is also the home to some of the biggest International names which include McDonalds, Pizza Hut, Domino's Pizza and many more. Speciality and budget restaurants serving the best of Indian and International food are located all over the city. Private daily / monthly mess, as also accommodation for students is easily available near the MIT campus.

Shopping

Though shopping malls are spouting all over the city, Deccan and Camp are quite popular amongst shoppers. It is due to value for money shopping and the presence of major National and International brands.

Events

Pune Festival: While Ganesh Chaturthi is celebrated all over India, the festival is most extravagant in Pune. The climax of the Ganesh festival is the very popular, 11 yrs old 'Pune Festival'. Classical dance and music concerts, folk dance, wrestling and International Marathon are the major highlights of Pune Festival.

Living in Pune

Pune is the Headquarter of southern command. A low crime rate and an overall pleasant climate makes it the ideal place to story. Though the local language is Marathi, Pune has an excellent cosmopolitan population. It also is the home to the largest number of outstation students in India in a single city.

Entertainment and Culture

Pune being the cultural capital of Maharashtra, there is no limit to the cultural happenings in the city. It also boosts of Multiplexes, theaters, museums etc. There are many cultural activities for college students. 'Verve' and 'Purushattam Karandak' are quite popular with the students.

University of Pune (UOP)

MAEER's MIT is affiliated to the UOP, which has more than 50 yrs. of excellent tradition and performance record. It houses research organizations like IUCAA, the prime astronomy and astrophysics research Institute and C-DAC- the developer of Indian's first and only Supercomputer.

MAEER's MIT Group of Institutions, Pune

• 32 Years • 63 Institutions • Over 50,000 Students

List of Institutions run & managed by MAEER, Pune

Engineering & Technology

- Maharashtra Institute of Technology, Pune
- MIT College of Engineering, Pune
- MIT Academy of Engineering, Alandi (D), Pune
- Maharashtra Academy of Naval Engg. & Training, Loni Kalbhor, Pune
- MIT Polytechnic, Pune
- MIT Institute of Design, Loni Kalbhor, Dist. Pune
- MIT College of Food Technology, Loni Kalbhor, Dist. Pune

Medicine & Pharmacy

- Maharashtra Institute of Medical Sciences & Research (Medical College), Latur
- Yashwantrao Chavan Rural Hospital, Latur
- Maharashtra Institute of Physiotherapy, Latur
- Maharashtra Institute of Nursing Sciences, Latur
- Maharashtra Institute of Dental Sciences & Research, Latur
- Maharashtra Institute of Medical Education and Research (Medical College),Talegaon (Dabhade), Dist. Pune
- Dr. Bhausaheb Sardesai Rural Hospital, Talegaon Dabhade, Dist. Pune
- College of Physiotherapy, Talegaon Dabhade, Dist. Pune
- Maharashtra Institute of Pharmacy, Pune
- MITSchool of Health Science, Pune
- Vishwaraj Hospital, Loni Kalbhor, Pune

Management

- MIT School of Management, Pune
- MIT School of Business, Pune
- MITSOM College, Pune
- MIT Arts,Commerce & Science College, Pune
- MIT School of Government, Pune
- MIT International School of Broadcasting and Journalism, Loni-Kalbhor, Dist. Pune
- MIT School of Telecom Management, Pune
- MIT College of Management, Pune
- MIT Arts,Commerce & Science College, Alandi, Dist. Pune
- MIT Jansanwad College, Latur

Teachers Training

- MIT School of Education (B Ed & M.Ed. College), Pune
- MIT B Ed College, Alandi, Dist. Pune
- Vishwashanti Gurukul B.Ed College, Loni Kalbhor, Dist. Pune
- Sri Saraswati Teacher Education B Ed College, Ambejogai

Schools and Junior Colleges

- MIT Pre-Primary (Marathi Medium), Pune
- Sri Sharada Prathamik Vidyalaya, Pune
- Sri Sant Dnyaneshwar Madhyamik Vidyalaya, Pune
- MIT Pre-Primary (English Medium), Pune
- Sri Swami Vivekanand Primary School, Pune
- Sri Sarashwati New English School, Pune
- MIT Junior College, Pune
- MIT Vishwashanti Gurukul, Loni Kalbhor, Dist.Pune
- Swami Vivekanand Academy, Aurangabad (Marathi Medium)
- Swami Vivekanand Academy, Aurangabad (English Medium)
- Smt. Prayag Karad Vishwashanti English Medium School & Higher Secondary School, Barshi
- Sri Saraswati Karad Madhyamik Vidyalaya, Umbarge
- Sri Mata Ratneshwari Devi Vidyaniketan, Nanded
- Sri Saraswati Vidyalaya & Jr. College Rameshwar, Latur
- New English School Guruwar Peth, Ambejogai
- Sri Saraswati Public School, Ambejogai
- Late Dadarao Karad Vidyalaya, Ambejogai
- Mukundraj Madhamik Vidyalaya, Nandgaon
- Mukundraj Higher Secondary School, Nandgaon
- Vishwashanti Gurukul Primary School, Arvi, Latur
- Vishwshanti Gurukul CBSE School, Pandharpur
- Vishwashanti Gurukul Higher Secondary School, Pandharpur
- Mahatma Gandhi Gram Swaraja Training Center, Rameshwar
- Vishwashanti Gurukul School, Solapur
- Vishwashanti Gurukul Higher Secondary School, Solapur
- MAEER's MIT Vishwashanti Gurukul CBSE School, Loni Kalbhor, Dist. Pune
- Vishwashanti Gurukul CBSE School,Chichondi

Arts, Music & Allied Institutions

- MIT School of Photography, Pune
- MIT - Civil Services & Training Centre (MIT-CST), Pune
- Vishwashanti Sangeet & Kala Academy, Rajbaug Loni Kalbhor, Dist. Pune
- MIT School of Film and Television, Rajbaug Loni, Pune

MIT GROUP OF INSTITUTIONS

Rajbaug Campus, Loni Kalbhor, Pune

MAEER

ESTD 1983

MIT GROUP OF INSTITUTIONS Pune, India

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