

The MIT logo is displayed in white, bold, sans-serif capital letters on a green rectangular background.

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 IICChE, IEEE, CSI, ISTE, IETI, 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](http://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 [admissions@mitaoe.ac.in](mailto:admissions@mitaoe.ac.in) or visit our website: [www.mitaoe.ac.in](http://www.mitaoe.ac.in).
- You may also visit: [www.dte.org.in](http://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**

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**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



**Prof. Mrs. Uma Nagraj**  
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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

B.E. - Computer Engineering  
M.E. - Computer Engineering

### Duration

4 years (B.E.)  
2 years (M.E.)

### Intake

120 seats (B.E.)  
18 seats (M.E.)

### Entry requirements

B.E. - H.S.C. + JEE (Mains)  
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



**Dr. Mahesh D. Goudar**

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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**

B.E. - Electronics Engineering  
M.E. - VLSI and Embedded system  
Ph.D. - Electronics

**Duration**

4 years (B.E.)  
2 years (M.E.)

**Intake**

60 seats (B.E.)  
18 seats (M.E.)

**Entry requirements**

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 keynote 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.











# 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

B.E. - Electronics & Telecommunication Engineering

## Duration

4 years (B.E.)

## Intake

120 seats (B.E.)

## Entry requirements

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

B.E. -Information Technology

### Duration

4 years (B.E.)

### Intake

60 seats (B.E.)

### Entry requirements

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



**Prof. N. Murali**

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**Vision**

To develop the department into a renowned learning center with a right blend of academics, research, 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:-**

B.E. - Mechanical Engineering  
M.E. - Mechanical Engineering

**Duration:-**

4 years (B.E.)  
2 years (M.E.)

**Intake:-**

120 +60 seats (B.E.)  
18 seats (M.E.)

**Entry requirements:-**

B.E. - H.S.C. + JEE (Mains)  
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



**Prof. Satyavathi Nath P.**

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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**

BE [University of Pune]

**Duration**

4 years (Full Time)

**Intake**

60 seats

**Entry requirements**

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









**Dr. S. M. Khairnar**

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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 (NIBM), 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 and 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 MITAOENSS Volunteers.
- Recently we arranged several special camps at the nearby villages. Numerous significant social and cultural activities were conducted during the camps.





