

Modern Education Society's College of Engineering, Pune (Wadia College Campus)

Accredited by NAAC with 'A' Grade (CGPA-3.13)

Programs Offered:

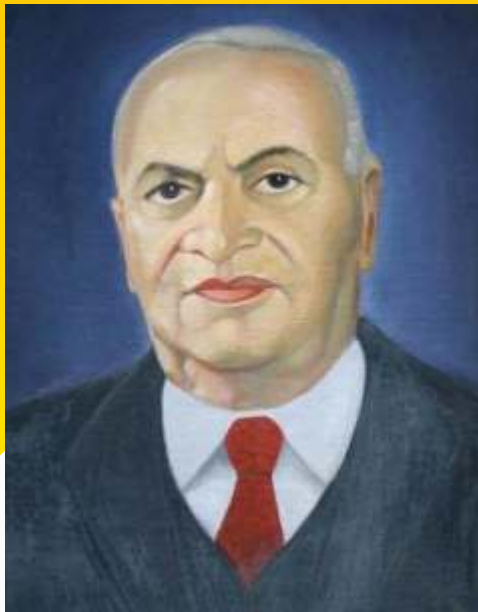
Computer, E&TC, Mechanical and
Automation & Robotics Engineering

Accredited by NBA



YEAR 2022-23





Late Prin. V. K. Joag

(1888-1963)

Founder Life-Member & Secretary

Modern Education Society, Pune

The foundation stone of the Modern Education Society, Pune, was laid by the late Principal, V. K. Joag in 1932, to meet the demand for education by the residents of the eastern part of the city of Poona. Today, the institution has grown into a big tree with its branches in Pune and Mumbai.

The Institute conducts a wide spectrum of educational programs in professional fields like Engineering Technology, Management, Science, Commerce & Arts.

1. Nowrosjee Wadia College of Arts and Science, Pune. (Estd.–1932)
2. Cusrow Wadia Institute of Technology, Pune. (Estd.–1938)
3. D. G. Ruparel College of Arts, Science and Commerce, Mumbai. (Estd.–1952)
4. New Law College, Mumbai. (Estd.–1954)
5. Ness Wadia College of Commerce, Pune. (Estd.–1969)
6. Neville Wadia Institute of Management Studies & Research, Pune. (Estd.–1991)
7. Modern Education Society's College of Engineering, Pune. (Estd.–1999)

The institute is located in the heart of Pune city at a prime location. The campus has well-ventilated, spacious classrooms, seminar rooms, laboratories, library, administrative block and conference hall, with separate hostels for boys and girls. An extensive area of about two hectares is used as a playground and a gymkhana Pavilion, and an open-air stadium borders one side of the playground.

Vision

To groom Motivated, Environment friendly, Self-esteemed, Creative and Oriented Engineers.

Mission

To Develop Industry Oriented Manpower to accept the challenges of Globalization by,

- Promoting value education through motivated trained faculty
- Maintaining a conducive environment for education at an affordable cost
- Promoting Industry-Institute interaction
- Involving alumni



Goals And Objectives

- To ensure all-around development of students by providing co-curricular, extra-curricular and entrepreneurship skills.
- To imbibe research culture in students and faculty by providing state-of-the-art research facilities and Industry-Institute interaction.
- To inculcate moral integrity in students and make them socially responsible, good human beings.
- To develop leadership qualities and the ability to work as a team among students by encouraging participation in various activities.

Accredited By NBA



The Modern Education Society's College of Engineering, Pune (MESCOE) was established in 1999 and is approved by the All India Council for Technical Education (AICTE). Moreover, the premium institution is sanctioned by Government of Maharashtra, affiliated to the Savitribai Pule University as well as NAAC A accredited and aims to impart holistic technical education to the students.

Under Graduate Programs:

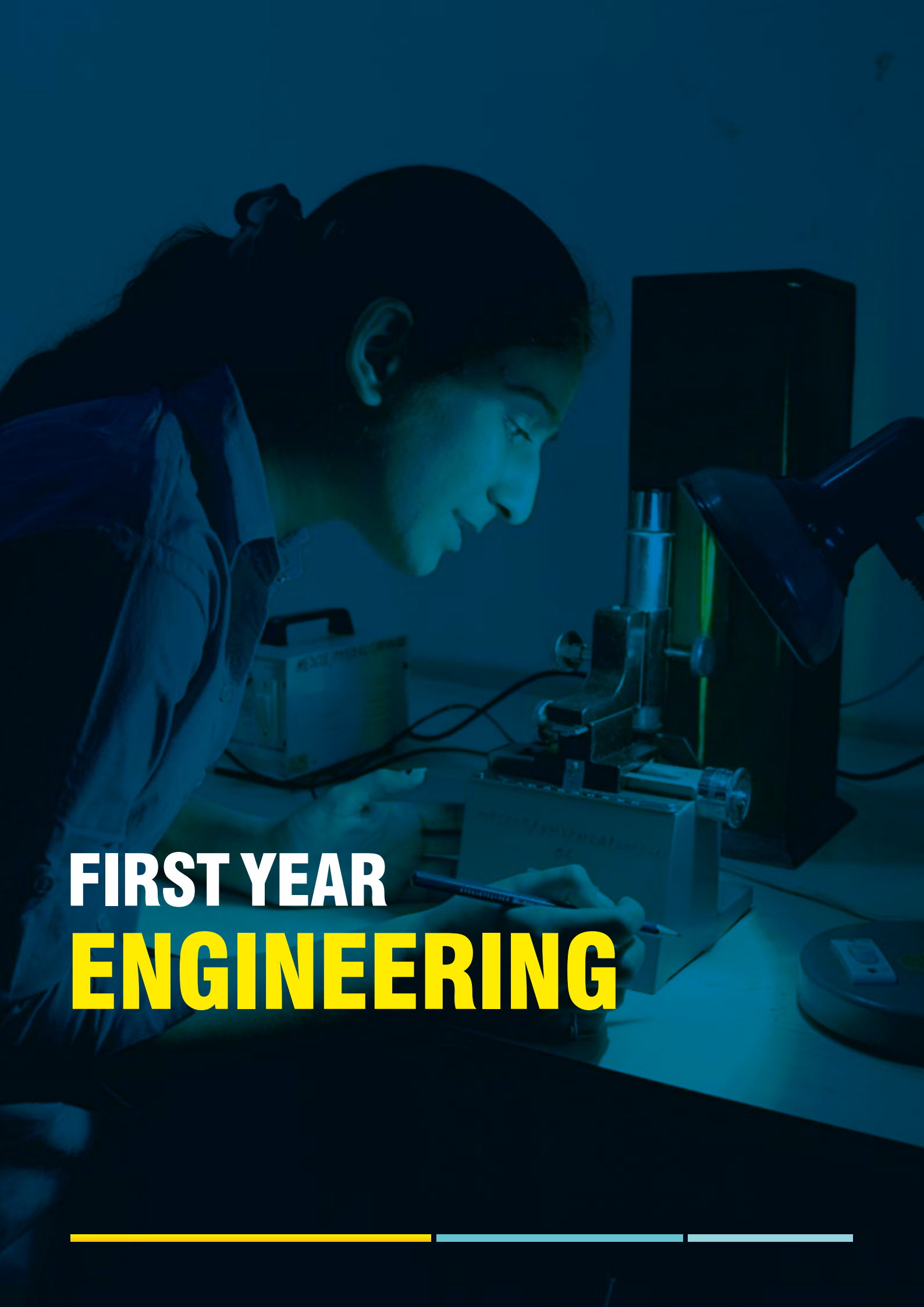
Sr. No.	Course	Branch code	Intake
1.	Computer Engineering	628124510	180
2.	Electronics and Telecommunication Engineering	628137210	120
3.	Mechanical Engineering	628161210	120
4.	Automation & Robotics Engineering	628191610	60

Post Graduate Programs:

Sr. No.	Course	Branch code	Intake
1.	Computer Engineering (Computer Engineering)	628124510	12
2.	Electronics and Telecommunication Engineering (Signal Processing)	628135810	12
3.	Mechanical Engineering (Design Engineering)	628190410	24

We make learning not just an interaction between staff and students but an experience of a lifetime, bubbling innovations, true internal quest, and deep exploration.





FIRST YEAR ENGINEERING



First Year Engineering



The fundamental subjects of Engineering are Physics, Chemistry & Mathematics. The department works on building a strong foundation for specialised technical courses, it covers all the essentials to get all the basic concepts done. The laboratories of Physics and Chemistry are well equipped to cater to the students' knowledge in basic sciences with an orientation towards engineering concepts. The Department offers academic advising, tutoring in all subjects, and mentoring in order to facilitate success during the first year. It motivates the students for higher studies by imparting fundamental facets of Physics, Chemistry, Mathematics, and other subjects. Students admitted after 12th Standard (Science) are groomed as budding engineers. Their strengths and weaknesses are identified to make them aware of future needs in the engineering profession. The Department is proud to have a highly qualified, dynamic, and technologically sound faculty.

The department has advanced and well-equipped Laboratories such as

- Chemistry Laboratory
- Mechanics Laboratory
- Physics Laboratory
- Basic Electrical Laboratory

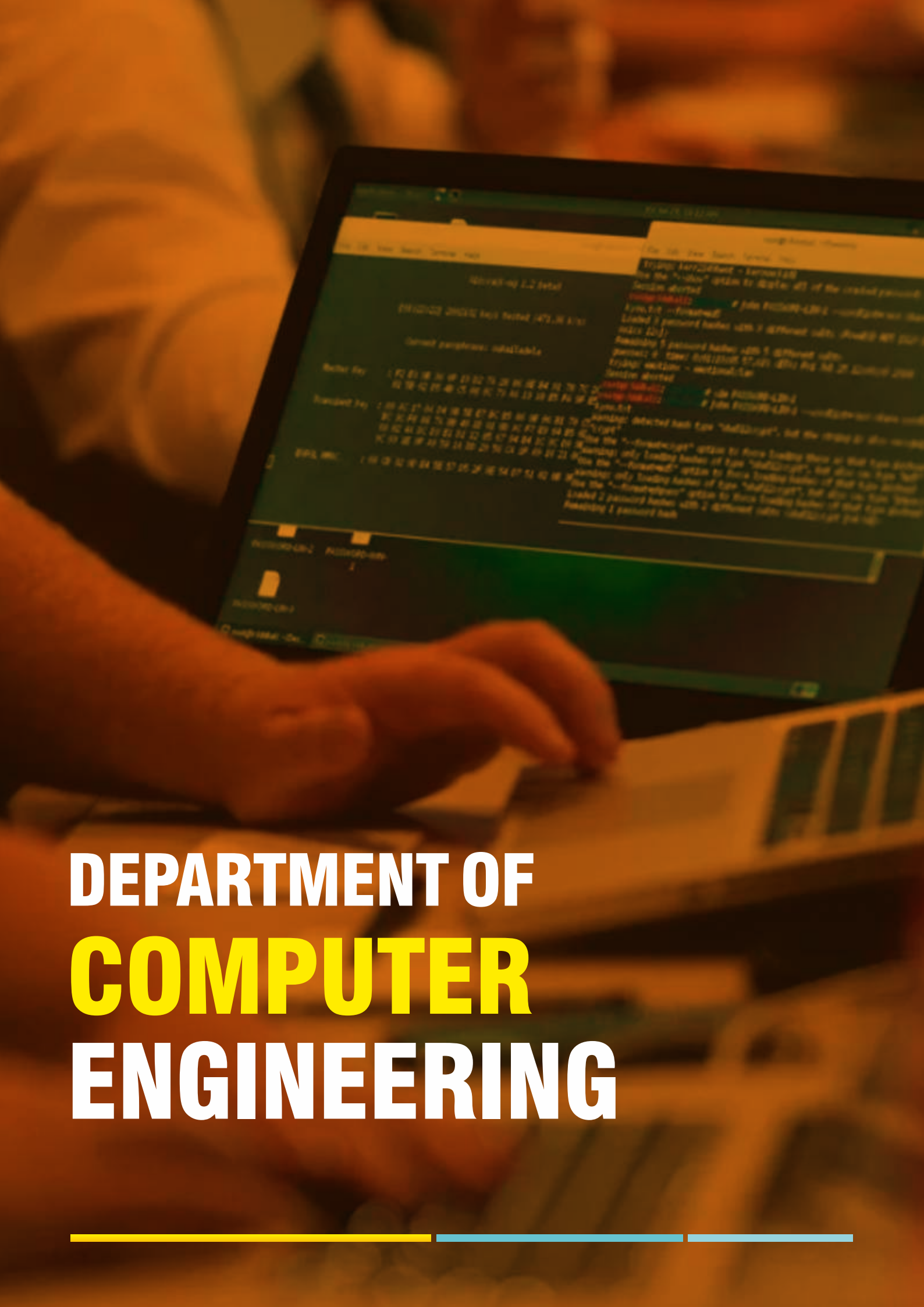


Workshop

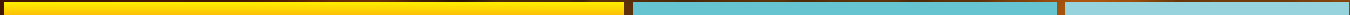
Students are trained in modeling skills, and experiencing the shop floor environment to meet the recent needs of industries. The central workshop provides facilities to develop the basic skills of students in handling the tools and understanding the manufacturing process with conventional CNC machines and automation. Students put it into practice, and their creativity and innovative ideas are transformed into the form of projects and model development.

**Strive for perfection in everything you do.
Take the best that exists and
make it better. When it does not exist, design it.**





DEPARTMENT OF COMPUTER ENGINEERING



Department of Computer Engineering

The Department of Computer Engineering, since its establishment, is actively working towards the enrichment of knowledge in the field of Computer and Information Technology. The department is an exciting place to study and grow where thinkers become leaders and where there is a thirst for knowledge. The interaction between students and professors in the department greatly enriches the educational experience for all. The department has a supercomputer, "PARAM SHAVAK" for research in the area of High-Performance Computing in association with CDAC.

The department has experienced and well-qualified faculty. The faculty members are experts in the areas they teach. Not only do they provide a solid ground in the academic theories and concepts of their specialty, but they also provide the students with the right balance of theory and practice. We emphasize teamwork to give opportunity to each student to benefit from the ideas and intelligence of their classmates. Department has associations with professional bodies like CSI and ISTE in the form of Students and Institution Chapter. ICT-DXC Women Empowerment Center has been established in the department recently under the programming laboratory in association with ICT academy.

We offer students the opportunity to upgrade their knowledge and earn certification in association with IITB Spoken Tutorial and Coursera. Students are motivated to participate in Smart India Hackathon.



Laboratory Facilities

The department has well-equipped laboratories to cater to the needs of its students.

- Basic Computing Lab.
- Software Lab
- Computer Networking Lab
- Programming Lab
- Software Engineering Lab
- Operating System - Linux Lab
- Microprocessor & Computer Hardware Lab
- Project Lab
- PG Lab
- High-Performance Computing Laboratory (Center of Excellence)
- Computing Center
- Language / Communication Skills Lab

Students' Initiatives

In order to impart holistic development department organises numerous co-curricular and personality development activities for the students.

- The Department has established an Association of Computer Engineers (ACE), a platform for the students to apply their knowledge and interact with the outside world. Throughout the year ACE conducts various intra and inter-college events that help students to develop their competitive spirit and management qualities.
- Along with technical skills, in order to promote holistic development of students "ASTITVA" is a student initiative that runs a wall magazine. It is actively involved in spreading social awareness amongst students.
- CSI student chapter is formed to conduct various workshops for upgrading technical skills.
- There are multiple Technical and non-technical Clubs to conduct various activities to uplift students' confidence, communication, and technical skills.
- To upgrade domain knowledge, each student is encouraged to take on value addition courses, such as Java, Advanced Java, R Programming, and many more offered by IITB Spoken tutorial.
- The department offers each student the opportunity to complete one course offered by COURSERA each academic year, to help them upgrade their knowledge and benefit them in their professional life.



Salient Features

- Centre of Excellence in High Performance Computing, Supercomputer-PARAM SHAVAK - Lab supported by CDAC, Pune
- Excellent placement in renowned MNCs
- Mentorship and support to students interested in becoming entrepreneurs
- ICT-DXC Women Empowerment Centre to support economically weak girl students
- Well qualified and dedicated staff members
- Offers Honor course like Data Science, Artificial Intelligence & Machine Learning, Cyber Security, IoT, Augmented and Virtual Reality.
- Our lab is equipped with Microsoft Hololens for students interested in Mixed Reality.



DEPARTMENT OF **ELECTRONICS & TELECOMMUNICATION** ENGINEERING

Department of Electronics & Telecommunication Engineering

The Department of Electronics and Telecommunication since establishment emerged as a leading source for providing up-to-date knowledge and technical developments in the field of Electronics and Telecommunication Engineering. The department offers four year undergraduate Bachelor of Engineering (B.E.) course with an intake capacity of 120 & two year Post Graduate (M.E.) Program in Signal processing with an intake capacity of 12 students. The department has technically rich and experienced faculty providing a sound foundation of knowledge in electronics and related areas. State of the art computational and experimental facilities enable the department to undertake basic and applied research and provide support to R&D organizations.

Department offers sponsorships for BE in-house projects. Various multidisciplinary activities and programs are conducted for uplifting students continuously throughout the year. The department organizes several FDPs and workshops for the technical up-gradation of faculties. The graduating students are well placed in leading academic institutes, research organizations, and industries.

Laboratory Facilities

Creative thinking and experience integrated design of the systems, open-ended experiments, mini-projects, and course projects are introduced in the curriculum so as to enable the students to learn problem-solving skills. The department has well equipped basic and advanced laboratories considering the demands of the industries.

- Centre of Excellence (Amitec Lab)
- Basic Electronics Lab
- Signal Processing Laboratory
- Circuit Simulation & Modeling Laboratory
- VLSI Design & Software Development Laboratory
- Digital Electronics Laboratory
- Project & Design Development Laboratory
- Electronic Measurement & Advanced Equipment Laboratory
- Digital & Analog Communication Laboratory
- Microwave & Optical Communication Laboratory
- Embedded Laboratory
- Mechatronics Laboratory
- PG Laboratory
- Robo Lab



Students' Initiatives

- The Department has established the Students Association "ETSA" (Electronics & Telecommunication Engineering Students' Association) that provides a platform for students to apply their knowledge and develop their skills. Under this association, various activities are organized consisting of various technical competitions like Walk through the gates, Knowlex, Technical Quiz, Ohm-factor, and workshops on mobile assembling, etc.
- In addition to technical events, various social issues are explored by the "Astiva" organization of students. This includes Teachers Day, Engineers Day, and Women's Day. "Astiva - The Wall Magazine" is the platform for the students to display their technical and extracurricular skills.
- The "Roboclub" offers opportunities for students to develop technical skills and also to showcase their technical talents through seminars, workshops and exciting competitions such as ROBOTRYST and TECHKRIT held at IIT, Kanpur.



Salient Features

- Excellent placements record.
- Department offers Honor course like Data Science, Internet of Things and Artificial Intelligence and Machine Learning, Cyber Security, Block Chain etc.
- Centre of Excellence in the Software Defined Radio.
- Laboratories with state of art infrastructure.
- Received research grants from SPPU and DST.
- Every year organises National Conference.
- Collaborations with Oracle Academy, Palo Academy, Salesforce, Delemc, Cisco Networking Academy, DXE Technology in association with ICT Academy.
- Project sponsorship and internship opportunities to students from corporate.
- Project based learning and poster presentation.

A student in a dark polo shirt is kneeling in a workshop, working on a mechanical component. In the background, a blue and white go-kart with the number 12 is visible. Other students are standing in the background. The workshop has a high ceiling with exposed pipes and a calendar on the wall.

DEPARTMENT OF **MECHANICAL** ENGINEERING

Department of Mechanical Engineering

Mechanical Engineering is the core branch of Engineering and Technology, which plays an important role in the industrial growth of the nation. The department offers four years of undergraduate Bachelor of Engineering (B.E.) with an intake capacity of 120 & two year Post Graduate (M.E.) Program in Mechanical Design Engineering with an intake capacity of 24 students. The department has well-equipped laboratories and infrastructure to support UG and PG students. Besides high-quality teaching, the practical knowledge of students is enhanced through Expert Lectures by eminent persons from Industry.

The Department has created flexible and innovative learning opportunities for students enabling them to enhance theoretical and professional skills. Faculty members regularly contribute to the publications of Text Books and work on Research Projects funded by BCUD, Savitribai Phule Pune University, DST New Delhi. Faculty Members publish their research papers in National and International Journals and Conferences regularly. Number of faculty members are working as resource persons. The department has set ground zero between faculties and students that facilitate the teaching-learning process effectively.

The department has been pioneering many quintessential activities leading to the development of the college. Faculty members in the Department endeavor hard to upgrade themselves to be in tune with present trends in world-class technology. The activity plan of the department is displayed before the commencement of each semester. Additionally, the department encourages students to participate in National and International technical events. The Leadership and team-building qualities, and environmental perception of our students are nurtured through membership and participation in various events organized by MESA, eBAJA & mBAJA of SAE India, etc.



Laboratory Facilities

- BAKER MESCOE Metrology Laboratory
- CAD/CAM laboratory with Workstations
- Theory of Machines
- Dynamics of Machinery Laboratory
- Applied Thermodynamics Lab
- Refrigeration and Air Conditioning Laboratory
- Heat Transfer Laboratory
- Material / Metallurgy Lab
- Industrial Fluid Power Lab
- Fluid Mechanics Laboratory
- Fluid Machinery Laboratory
- Strength of Materials Laboratory
- Drawing Hall
- Internal Combustion Engines Lab
- Industrial Tribology Laboratory
- Kuka Robotics
- Advanced Manufacturing Laboratory
- Composite 3D printing facilities
- Industrial 6 DoF KUKA robot
- MESCOE NI Lab


Students' Initiatives

- The department encourages students to participate in various national level events in IIT/NITs, ASME, RoboCon, mBAJA, eBAJA by SAE India, etc with financial assistance and infrastructural facilities. Some of the students' project work gets published in National and International Journals and magazines.
- The Leadership and team-building qualities, and environmental perception of our students are nurtured through membership and participation in various events organized by MESA and other technical clubs.
- Many of our alumni have pursued higher education in institutions around the world and are placed in premier organizations worldwide. Department provides online software support like viz. MATLAB, AutoDesk Fusion, Inventor, LabVIEW etc. which enables us to conduct practicals online and work from home.
- In addition to technical events, various non-technical and social topics are explored by the "Astitva" organization of students. This includes various day celebrations like Teachers Day, Engineers Day, and Women's Day. "Astitva" The Wall Magazine is the platform for the students to display their co & extracurricular skills.



Salient Features

- Center of Excellence in NI Lab view Academy, BAKER - MESCOE Lab, 3-D Printing Lab, Industrial Tribology Lab, Advanced Robotic Lab
- Well qualified and dedicated staff members
- SAE India mBAJA, eBAJA teams Project sponsorship and internship opportunities to students
- Brilliant success rate and placements record
- Organised 9 National conferences (RDME) Faculty participation in ASME, IEEE conferences at abroad
- Faculty members regularly contributing in research paper writing and publications in journals and transactions
- Offers Honors courses like Additive Manufacturing, Energy Efficiency of Thermal Utilities, E-VEHICLE Design, Robotics & Programming.
- Guidance for Govt. / PSU Job and competitive exams, UPSC / MPSC / Banking / RTO

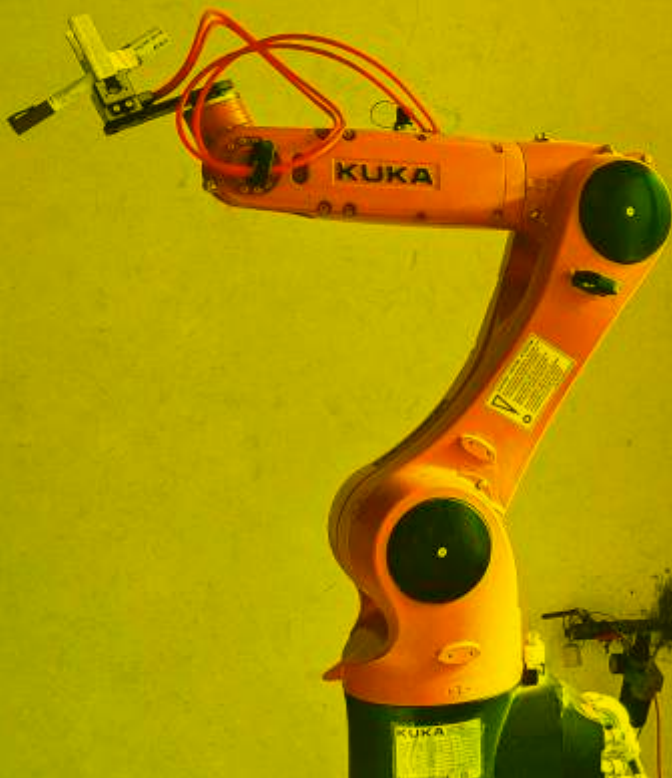
A robotic hand is shown hovering over a laptop keyboard. The entire image is overlaid with a semi-transparent red filter. The text is positioned in the lower-left area of the image.

DEPARTMENT OF AUTOMATION & ROBOTICS ENGINEERING

Department of Automation and Robotics Engineering

Department of Automation and Robotics Engineering is established to meet the growing demand for trained engineers in the field of Robotics and industrial Automation. It's an interdisciplinary discipline requires sound knowledge about industrial hardware and software and their applications. In 2020, India have 3 robots per 10,000 people against 166 robots in developed countries and projected growth at the rate of 46% annually. To match with this requirements, India requires highly trained professional in the automation and robotics domain.

Modern Education Society's College of Engineering have predicted these requirements well in advance and had created facilities to train our students well in advance. We have well established laboratories having facility of Industrial 6 DoF KUKA KR6 900 Robotic arm with KRC4 controller, CAD/CAM & Automation laboratories with robotic simulation software, MESCOE-NI equipment, Industry 4.0 training setup, Advanced Manufacturing Laboratory with CNC setup, 3D printers with composite material and ABS printing facilities, etc. for gaining hands-on experience. The department is supported by well-qualified, devoted and experienced faculty having rich experience in both industry and academic domain.



**Robotic process automation streamlines workflows,
which makes organizations
more profitable, flexible, and responsive.**

Training & Placement Cell

The T&PC is well equipped with excellent infrastructure to support all the stages of the placement process, including pre-placement talk, written test, group discussion, and personal interviews.

T&PC imparts training to the students to develop their overall personality enabling them to face the Campus Interviews in this competitive era. The thrust of the Placement Cell is to create maximum job opportunities for the students in the market by establishing good relationships with the Industry.

T&PC regularly arranges training programs on Soft Skills and Aptitude, training workshops & campus drives on college campuses in association with the industry. These programs help students while appearing for the campus interviews. The interview papers of the previous years are discussed with the students as a part of the preparation for the interview.



Companies visited the college for Campus Recruitment during the last academic year 2021-22

A

- Alepo
- Allerin
- Allianz
- Amazon Web Series
- Aptean
- Aptify
- ATOS-Synt

B

- Bitwise
- Black Hawk
- Bridgestine

C

- Cachebox
- Capgemini
- Cummins
- Cybermatics

D

- Dana India
- Demand share
- Dais park
- Dimentrix
- Directrix

E

- E gain
- Eleation
- Ellicium solution
- Emtec
- Enzigma
- EPAM
- Equilibrium solutions
- Eternus solution
- Exadatum
- Excelleon
- Exusia
- E-zest

F

- Face
- Faurecia
- Flextronics
- Forbes Marshall

G

- GS Lab

H

- Harbinger
- HCL
- Helical Auto
- Hettich
- Hexaware
- HP
- HSBC Software

I

- IBM
- Imagination Technology
- IMRB Kantar
- Infosys
- Inteliment

K

- Kothari Wheels
- KPIT
- KSB Pumps
- KTR Coupling
- Kuka Robotics

L

- L&T Infotech
- L&T Technology Services

M

- Mahindra & Mahindra
- Mahindra Vehicles
- MAQ software
- Media ocean
- MNGL
- Mphasis

N

- NITOR Infotech
- NTT Data
- NVIDIA

O

- Omniscent
- Outside network

P

- Partian Technology
- Persistent Technologies
- POEL
- Polycab Wires
- Prototech

Q

- Quickheal
- Quinnox

R

- Raja Software
- Reflexis
- Reliance JIO
- Rudder analytics

S

- Sanmar Group
- Siemens
- SKF India
- SR Tech Labs
- Sungard
- Symantec
- Syntel

W

- Webonise lab
- Wipro Technologies
- Wirtgen India

X

- XL Dynamics
- Xoriant

Z

- Zensar
- ZF India Pvt. Ltd.
- ZS Associates



Facilities

To inculcate overall development and to foster growth MESCOE offers wide spectrum of facilities that perfectly meets students needs.



Central Library &
Book Bank Facility



Alumni Association



Gymkhana and Sports



Bus/Railway
Concessions



Career Guidance and
Counselling Centre



Earn and Learn
Scheme



Gym Facility



Medical Checkup and
Medical Facility



Hostel Facilities

Students' Clubs

The main objective of the students' clubs is to make every individual technically sound as well as develop their soft skills. The college provides adequate opportunities beyond classroom instruction to create well-rounded personalities for students.



Nakshatra
Astronomy Club



Google Developer
Student Club



Tech MESCOE Club



Colloquium Magna Model
United Nations Club
(Personality Development)



Directing Visions Club



Robo Club



Designers Club



MESCOE
Enthusiast Club



mBaja & eBaja

And many more...

Life at Mescoe





Modern Education Society's College of Engineering, Pune (Wadia College Campus)

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Scan for more details