



# ZEAL INSTITUTES

www.zealeducation.com  
NARHE | PUNE | INDIA



## INFORMATION BROCHURE B.E./M.E./Ph.D.

### UG COURSES

- AI & DATA SCIENCE
- CIVIL ENGINEERING
- COMPUTER ENGINEERING
- ELECTRICAL ENGINEERING
- E & TC ENGINEERING
- INFORMATION TECHNOLOGY
- MECHANICAL ENGINEERING
- ROBOTICS & AUTOMATION

### PG COURSES

- M.E. POWER SYSTEMS
- M.E. DATA SCIENCE
- M.E. CAD DESIGN
- M.E. DESIGN ENGINEERING
- M.E. VLSI & EMBEDDED SYSTEMS

### RESEARCH CENTER (Ph.D)

- E & TC ENGINEERING
- MECHANICAL ENGINEERING



## ZEAL COLLEGE OF ENGINEERING & RESEARCH, PUNE

NAAC 'A' GRADE, GOLD RATING IN AICTE - CII SURVEY OF INDUSTRY

Approved by AICTE New Delhi & Recognized by Directorate of Technical Education, Mumbai,  
Affiliated to Savitribai Phule Pune University, Pune







## Vision

“To empower society with holistic development through quality education”.

## Mission

To enrich knowledge with enhanced facilities to help Zeal students structure their careers to a glorious future and to develop the students as a resource within and outside the organization through holistic focus on character building through an array of curricular, co- curricular and extra-curricular activities.



## About Zeal Education Society

Zeal Education Society was established in 1996 by Hon. Shri. S. M. Katkar, an eminent industrialist committed to the noble cause of education. The society runs Twelve institutes from the pre-primary to PhD level. It caters to the educational need of students ,and is continuously expanding to cope up with the growing demands in the field of technical education.

## Hingne Campus, Pune

- » Silver Crest School & Junior College
- » Dnyanganga English Medium School
- » Dnyanganga Junior College for Commerce and Science
- » Dnyanganga College of Education (D.Ed & B.Ed )

## Narhe Campus, Pune

- » Zeal Pvt ITI, Pune
- » Zeal Junior College, Pune (Commerce and Science)
- » Zeal Polytechnic, Pune
- » Zeal College of Engineering and Research, Pune
- » Zeal Institute of Business Administration, Computer Application and Research, Pune
- » Zeal Institute of Management and Computer Application, Pune

## Sangli Campus

- » Zeal International School & Junior College, Sangli

## About Zeal College of Engineering & Research, Pune

Zeal College of Engineering and Research was established in 2007, approved by AICTE New Delhi, which symbolized the advent of a new era in technical education. Institute is accredited 'A' Grade by NAAC. The college offers Under Graduate engineering, Post Graduate & PhD Courses affiliated to Savitribai Phule Pune University, Pune (SPPU). With state-of-the-art research, infrastructure, sports, cultural facilities, the campus provides excellent academic ambience to the students which is one of the sought after Engineering.

### HIGHLIGHTS

Project Based Learning

Intellectual Property Facilitation Centre

B.E/ M.E. Degree With Honors Program & Interdisciplinary Specializations

Focused Skill Development Activities

Innovative Teaching - Learning Methods & Strategies

Value Added/ Bridge/Global Certification Programme

Centre for Higher Education & Foreign Language

Entrepreneurship Development Cell

Strong Industry-Institute Connect

### Vision

To impart value added technological education through pursuit of academic excellence, research an entrepreneurial attitude.

### Mission

- M1:** To achieve academic excellence through innovative teaching and learning process.
- M2:** To imbibe the research culture for addressing industry and societal needs.
- M3:** To provide conducive environment for building the entrepreneurial skills.
- M4:** To produce competent and socially responsible professionals with core human values.





## Why ZEAL



It is a desired approach to learning that aligns itself with the emerging fourth industrial revolution. This industrial revolution focuses on smart technology, artificial intelligence, and robotics; all of which now impact our everyday lives. For engineering colleges to continue to generate successful graduates, they must prepare their students for a world where cyber-physical systems are prevalent across all industries. This means, teaching students about this technology as part of the curriculum, changing the approach to learning altogether, and utilizing this technology to improve the teaching & learning experience. This transformation of the education industry will make it more personalized, peer-to-peer, and a continuous process. Education 4.0 will cater to the need of Industry 4.0 enabling the workforce and machines to align to explore new possibilities. It will deploy the potential of digital technologies, open-sourced content and personalized data of this globally connected and tech-driven world. Education 4.0 will also create a blueprint for the future of learning – from school-based learning to learning at the workplace.

A few trends in this evolution of learning are to accelerate Remote Learning, Personalized Learning, Choice of Education Tools, Project-based Learning, Field-specific Experience, Data Analysis Changes in Exam Pattern and Assessment. These are exciting, provocative and potentially far-reaching challenges. For individuals and society, new educational tools

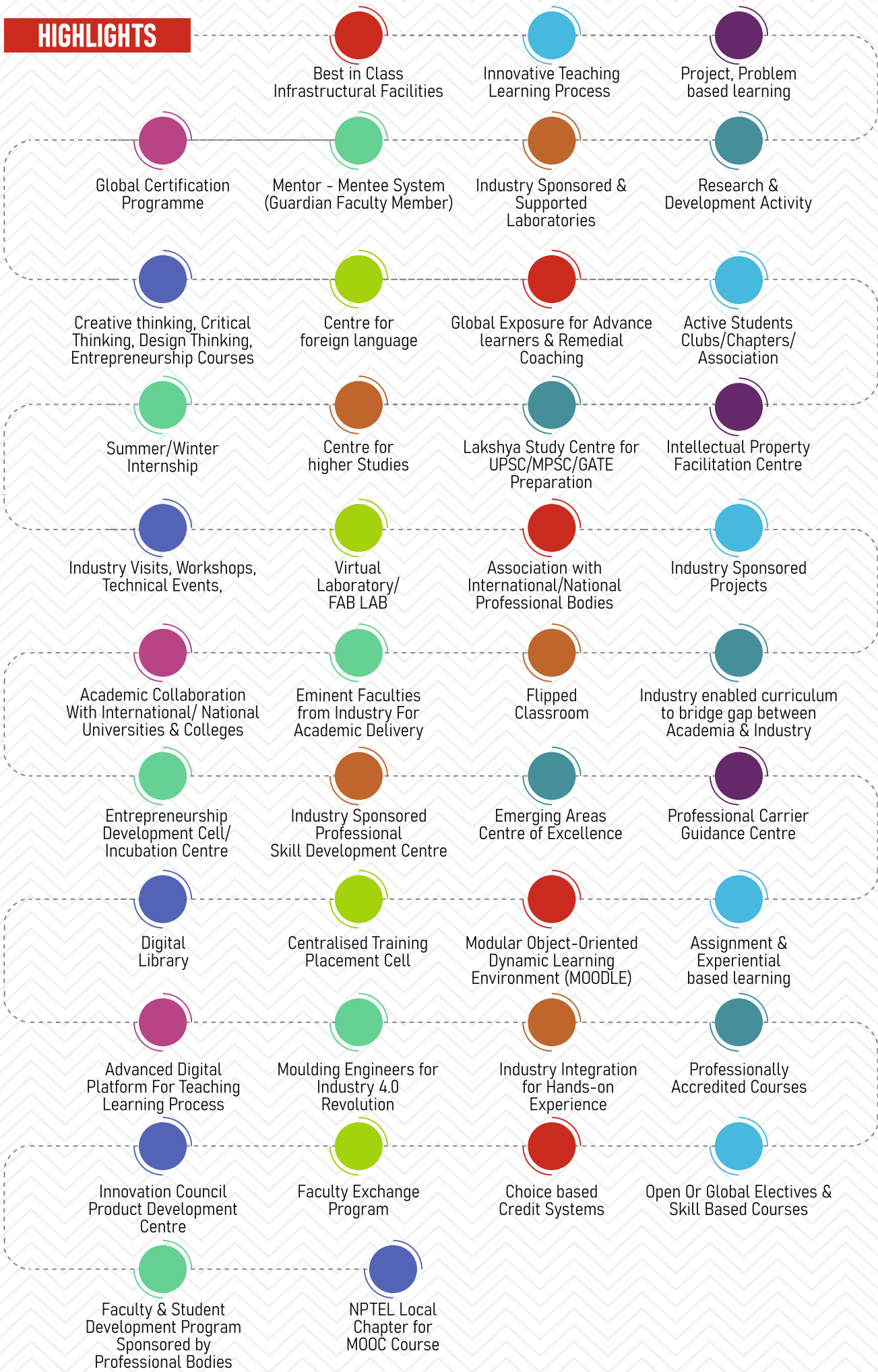
and resources hold the promise of empowering individuals to develop a fuller array of competencies, skills and knowledge and of unleashing their creative potential. Indeed, many of the changes underway call to mind the evocative words of Irish poet William Butler Yeats that, "Education is not about filling a bucket but lighting a fire."





# Highlights of Teaching - Learning Process @ ZEAL

## HIGHLIGHTS



# ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEERING

Zeal College of Engineering and Research, Pune has started a course in emerging area “Artificial Intelligence and Data Science” from the academic year 2020-21 at UG level FE admission seekers. This course will certify students with in demand big data technologies. It also empowers students with data management technologies like Hadoop ecosystem, R, Programing Machine learning etc. The knowledge and expertise of the skills in this course would be an added advantage for a better and competitive career for all the aspiring students. This course offers combination of Data Science and Artificial Intelligence, which includes knowledge of machine learning and deep learning algorithms. This course will also offer students with liberty to make every machine to perceive it's environment that you work on.



**Data Analytics**



**Automation Systems**



**Data Science**



**Deep Learning**



**Machine Learning**



**Artificial Intelligence**



**Center of Excellence  
in Internet of Thing**



**IBM Center  
of Excellence**

**Here are six steps to consider if you're interested in pursuing a career in data science:**

- Pursue an undergraduate degree in data science or a closely related field
- Learn required skills to become a data scientist
- Consider a specialization
- Get your first entry-level data scientist job
- Review additional data scientist certifications and postgraduate Learning

## Majors (Tracks)



**Major 1  
Speech Recognition**



**Major 2  
Machine Learning**



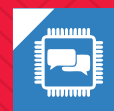
**Major 3  
Computer Vision**



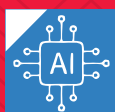
**Major 4  
Face Recognition**



**Major 5  
Neural Networks**



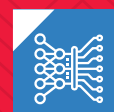
**Major 6  
NLP**



**Major 7  
Artificial Intelligence**



**Major 8  
Data Science**



**Major 9  
Deep Learning**

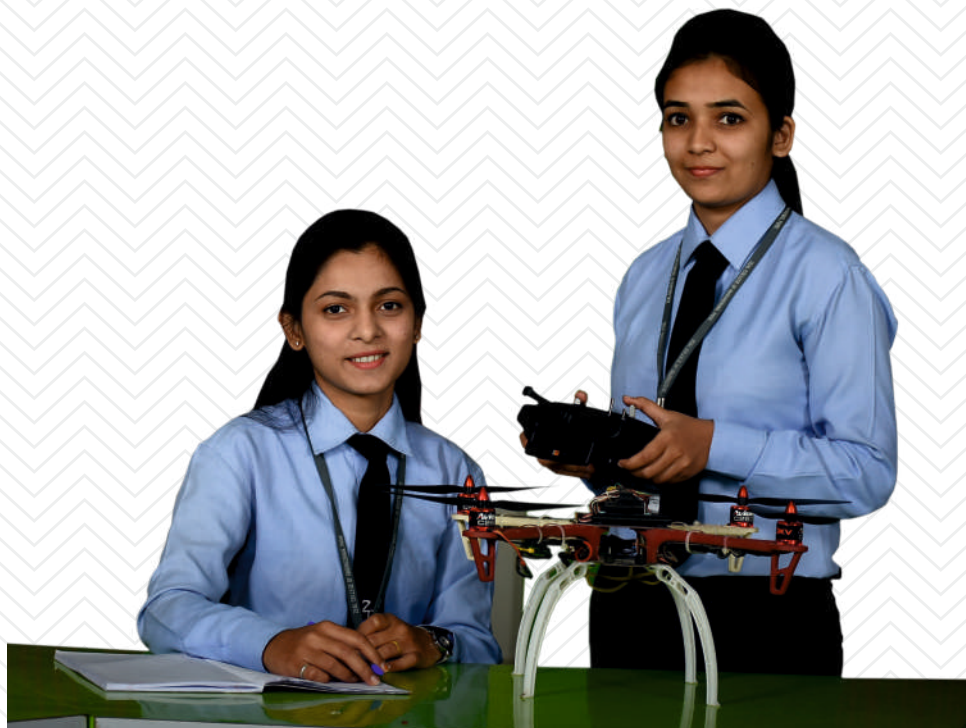
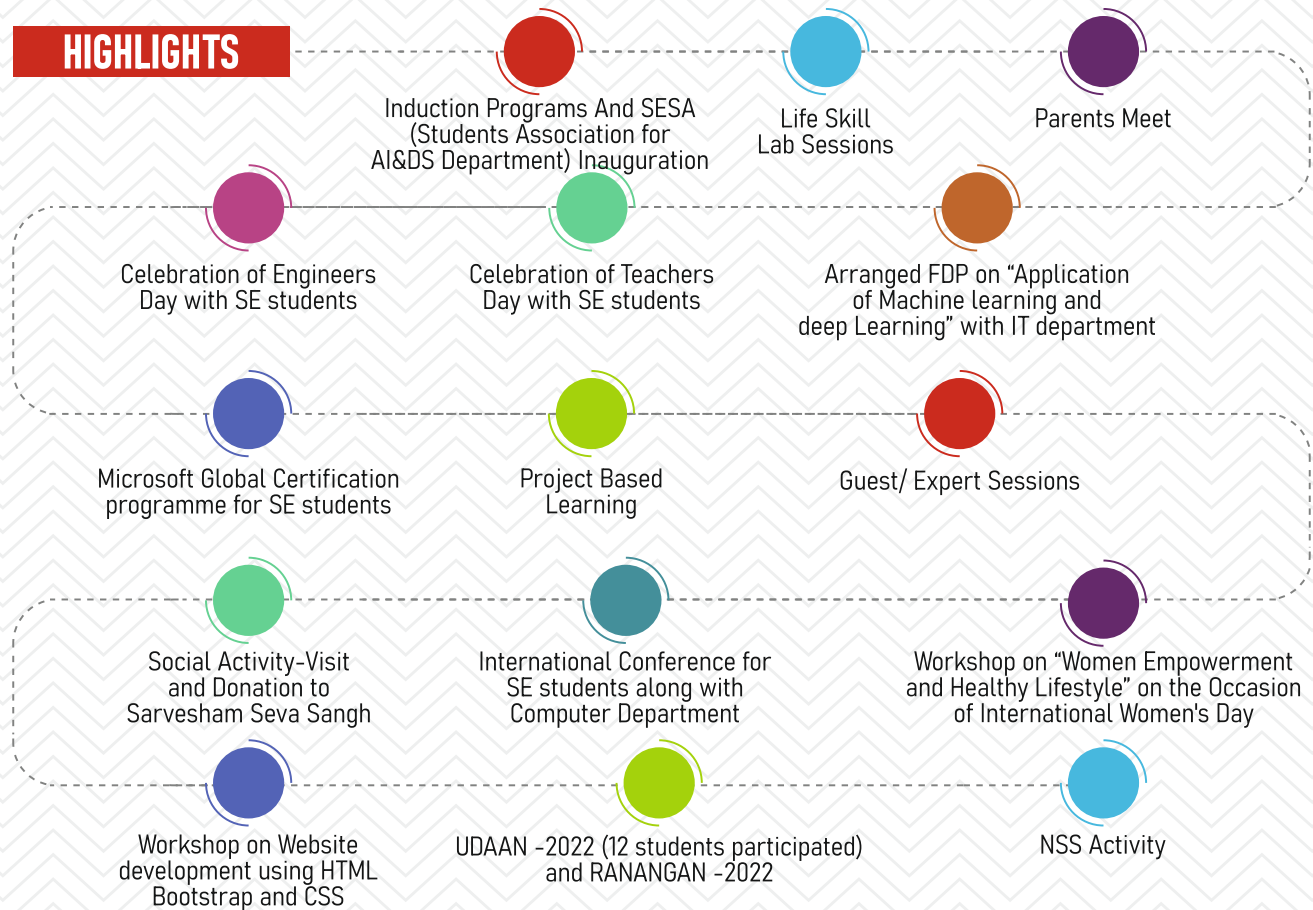


# Activities Conducted By Department of Artificial Intelligence & Data Science Engineering

## ACADEMIC PROGRAMME

### ■ Bachelor of AI & Data Science (B. E.) : 60 Seats

#### HIGHLIGHTS



# CIVIL ENGINEERING

Civil Engineering is often recognized as the seed from which all other branches of Engineering have grown into a mighty tree. We aim to create technically sound and practically proficient engineers who would jump at any opportunity to use their skills in a real-world scenario. With the foundational principles of Civil Engineering at the core, we believe our students would make a positive impact in various modern infrastructural demands like the planning, designing, and building of everything from schools and cities to bridges and dams.

A number of foreign companies have set up their offices all over the country as a result of the 'Make in India' initiative of the Central Government. This has created umpteen lucrative avenues of employment for the skilled graduates of ZCOER's Civil Engineering Department. This international connect would extend beyond career opportunities to professional guidance and training as well when foreign faculty would visit our campus to train and upskill our students. Even within the city of Pune, Physical Infrastructure, Affordable Housing, and Transit Hub are three sections of the Pune Smart City project where Civil Engineers are at the core. Our entire pedagogy is structured to prepare the students' brilliant minds to tackle and conquer these opportunities.



**Material Lab**



**Model & Plumbing  
Laboratory**



**Material  
Testing**



**Environmental  
Engineering**



**Transportation  
Engineering**



**Fluid  
Mechanics**



**Geotechnical  
and Foundation**



**Concrete  
Technology**

## Majors (Tracks)



**Major 1  
Infrastructure &  
Management**



**Major 2  
Structural  
Analysis & Design,  
Materials**



**Major 3  
Building Energy  
Conservation**



**Major 4  
Transportation**



**Major 5  
Green Architecture**



**Major 6  
Surveying**

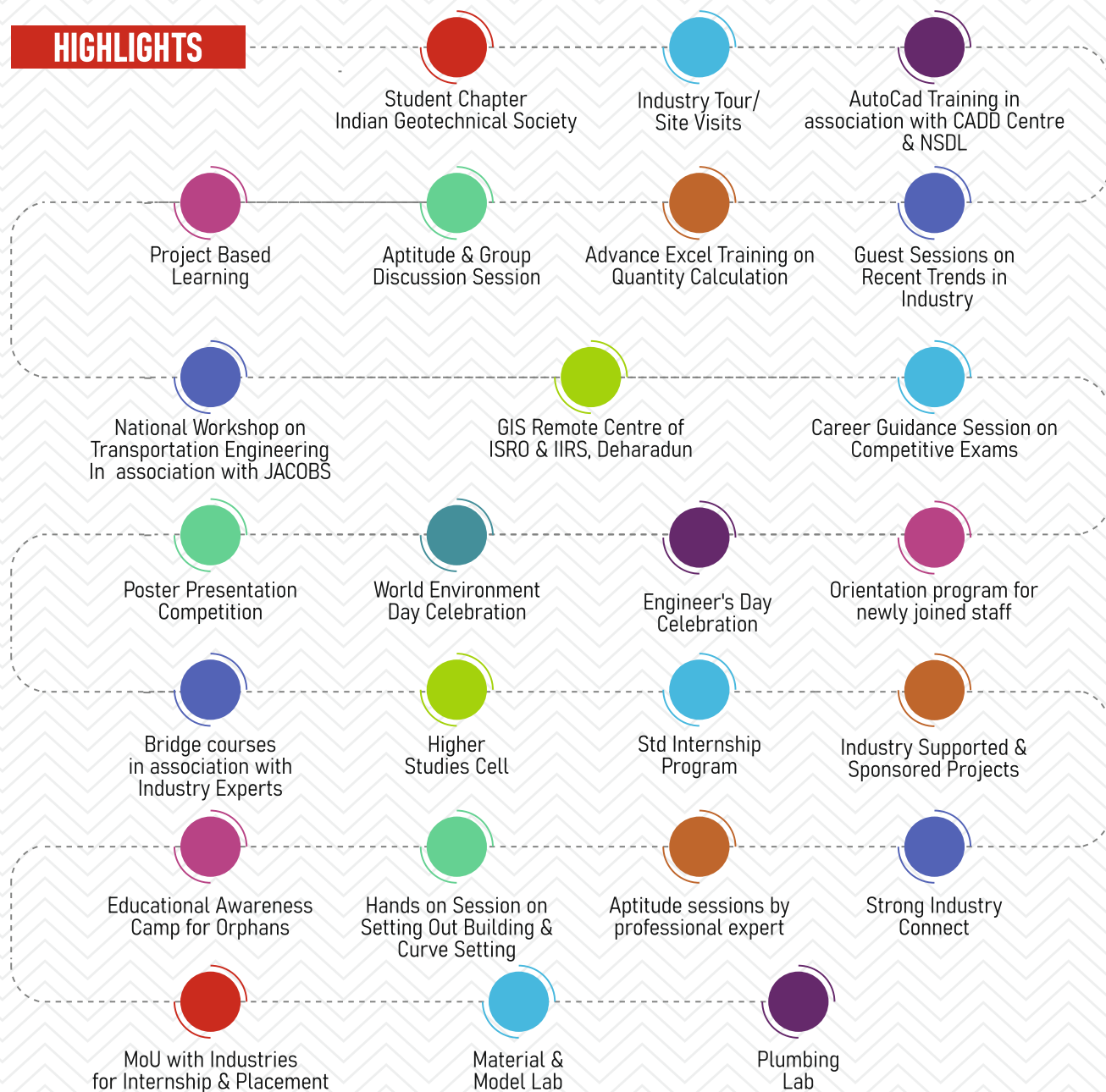


# Activities Conducted by Department of Civil Engineering

## ACADEMIC PROGRAMME

### ■ Bachelor of Civil Engineering (B. E.) : 60 Seats

#### HIGHLIGHTS



# COMPUTER ENGINEERING

The Department of Computer Engineering was set up under Zeal College of Engineering and Research in 2007. Our sole objective is and will always be to provide the learner with a repertoire of knowledge that will serve them for a lifetime.

We have 13 well-equipped labs with the latest software installed. The high speed internet facility (100 Mbps lease line) coupled with regular seminars and workshops held for the students and faculty ensures that the knowledge-gathering process is a holistic one. The IBM Software Lab for Emerging Technologies, set up in collaboration with IBM, is another initiative of the Department and we are making sincere efforts to ensure that every single student gets certified by this Lab. Additionally, the Zeal Firefox Club involves the students wherein they can engage in the development of Firefox products and applications. They are active volunteers in Nirmaan and Talentron, which are the technical and cultural festivals held at Zeal annually and which witness the active participation of the students.



**Zeal Firefox  
Club**



**NVIDIA GPU  
Education Center**



**Computer Networks &  
Cyber Security**



**Database  
Systems**



**System  
Software & IoT**



**Computer Architecture  
& Organization**



**High Performance  
Computing**



**Software  
Engineering**

## Majors (Tracks)



**Major 1  
Data Mining and  
Machine Learning**



**Major 2  
Networking &  
Cyber Security**



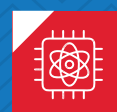
**Major 3  
Artificial Intelligence  
and Smart Systems**



**Major 4  
Computer Vision**



**Major 5  
Bioinformatics**



**Major 6  
Quantum  
Computing**

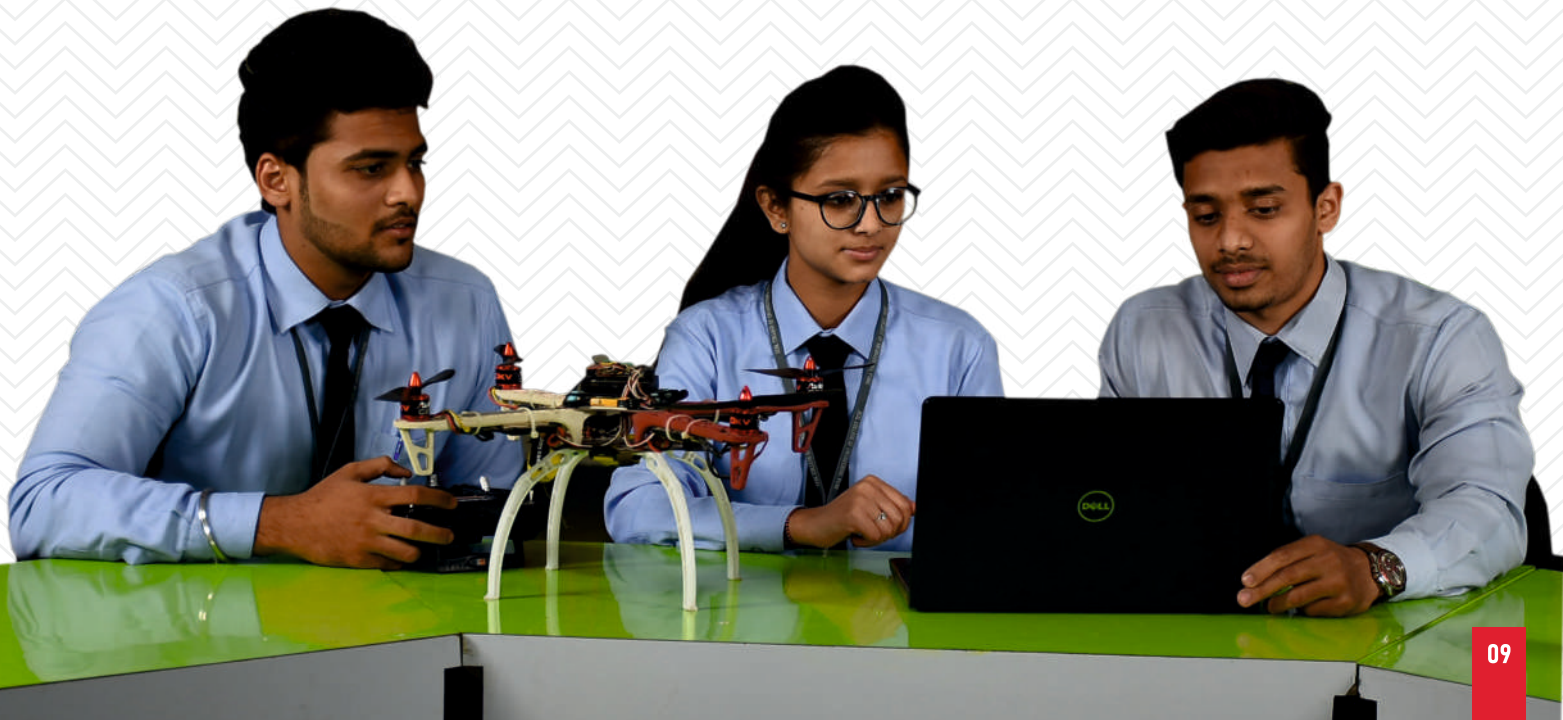
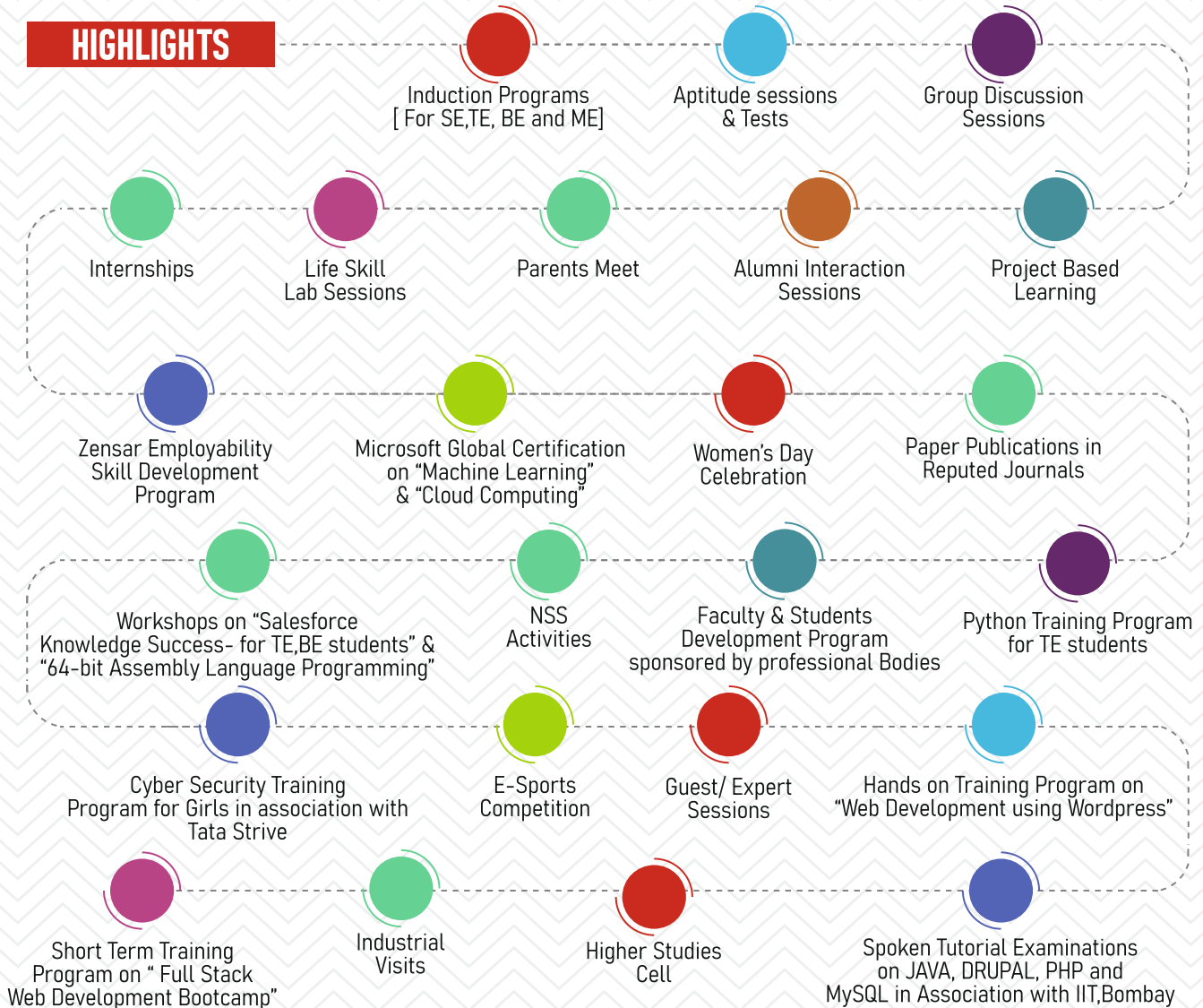


# Activities Conducted by Department of Computer Engineering

## ACADEMIC PROGRAMME

- Bachelor of Computer Engineering (B. E.) : 180 Seats
- Master of Engineering in Data Science (M. E.) : 24 Seats

### HIGHLIGHTS



# ELECTRICAL ENGINEERING

The Electrical Engineering Department has been at the forefront of activity at Zeal with the help of its experienced faculties and bright students. The modern infrastructure and resources create an enabling environment for our students to explore their interests within Electrical Engineering while being creative and innovative as well.

The trained and renowned faculties aid the students in completing the course and make best use of their learning using a holistic approach of the traditional classroom learning and practical activities. All laboratories are equipped with art of state equipments and software like MATLAB, Simulink, Auto CAD.



**Switchgear,  
Protection & EIMT**



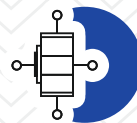
**Control system  
PLC SCADA**



**Material Science  
High Voltage**



**Electrical  
Machines**



**Power Electronics  
Drives**



**Analog &  
Digital Electronics**



**Digital Control  
System**



**Electrical Measurement &  
Instrumentation**



**Research  
Lab**



**Electrical  
Machine Lab**



**120 KW  
Solar Power Plant**

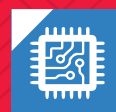
## Majors (Tracks)



**Energy Systems**



**Smart Grid  
Technology**



**Embedded Controls  
and Systems**



**Power  
Engineering**



**Automotive  
Electronics**



**Electric Machine  
Design**

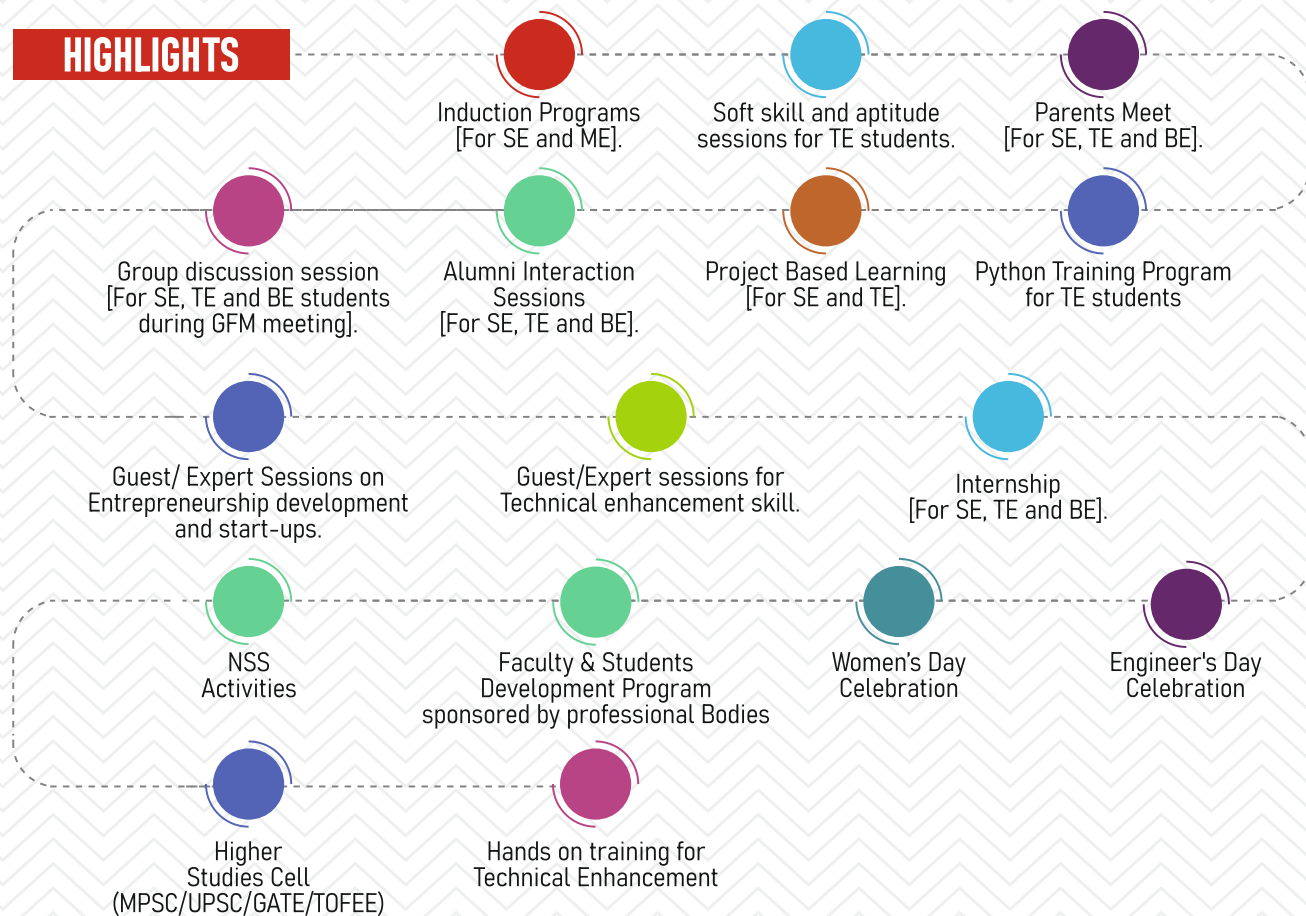


## Activities Conducted by Department of Electrical Engineering

### ACADEMIC PROGRAMME

- Bachelor of Electrical Engineering (B. E.) : 120 Seats
- Master of Engineering in Power Systems (M. E.) : 24 Seats

#### HIGHLIGHTS



## ELECTRONICS & TELE-COMMUNICATION ENGINEERING

The Department is having state of the art for undergraduate, post graduate teaching and laboratory facilities along with a Ph.D research center affiliated to S. P. Pune University. There are effective and interactive teaching learning courses through high end computing facilities, equipped laboratories & high-tech classrooms. Hands-on training is providing for enhancing the employability skills of the students. There is continuous provision of Training & placement sessions, aptitude classes and Communication skill development programs for enhancing the employability. Apart from this, various platforms and clubs are available for students participation in curricular, co- curricular and extracurricular activities. There is ample of opportunity for students for self & project based learning at the department. We offer Under Graduate (UG) & Post Graduate (PG) courses in ME- VLSI & Embedded Systems. We have IEEE and IETE student chapters and Center of Excellence in Printed Circuit Board (PCB) Design and Development and are in the process of establishing Center of Excellence in Artificial Intelligence.



**PCB Design & Development**



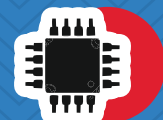
**Zeal Cyborg Club**



**Communication Engineering**



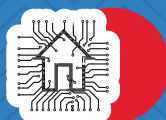
**VLSI & Embedded System**



**Microcontroller**



**Microwave & Fiber Optic**



**PCB**



**Electronics Devices & Circuits**

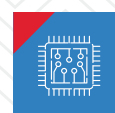
## Majors (Tracks)



**Communication Engineering**



**Artificial Intelligence**



**Electronics Engineering**



**VLSI & Embedded Systems**



**Signal & Image Processing**



**Virtual Reality**

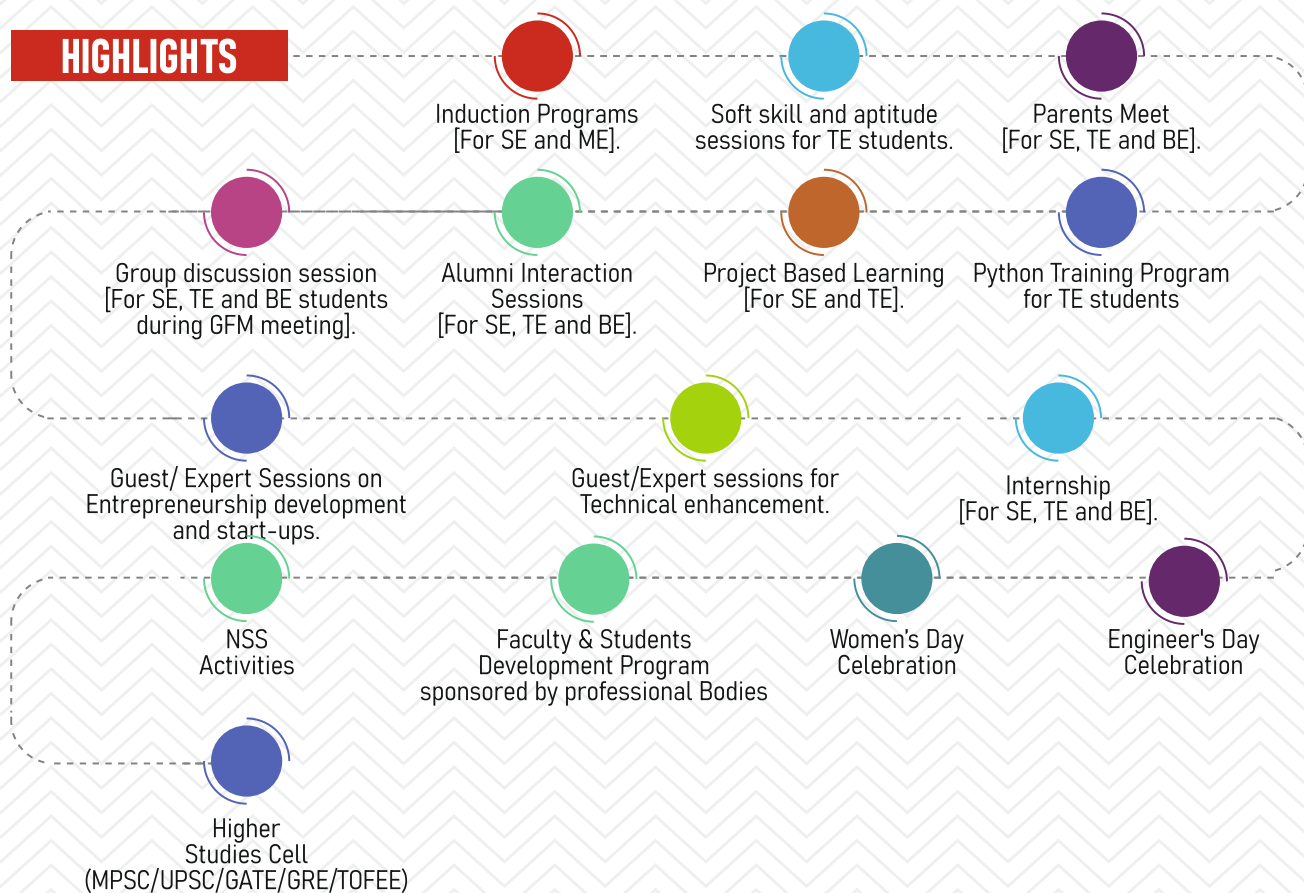


## Activities Conducted by Department of E & TC Engineering

### ACADEMIC PROGRAMME

- Bachelor of E & TC Engineering (B. E.) : 60 Seats
- Master of Engineering in VLSI & Embedded Systems (M. E.) : 24 Seats
- Doctorate Programme (Ph. D) in E & TC Engineering

### HIGHLIGHTS



# INFORMATION TECHNOLOGY

The Department of Information Technology at Zeal College of Engineering and Research, Pune was established in 2007 offering a four Year B.E. Program in Information Technology. The vision of the department is to nurture the wisdom of young minds to become a successful IT professional. The prime objective of the department is to provide students with life long learning and leadership skills that enable them to grow in their profession and advance them to better positions in the IT industry. Students are provided with various in house skill development programs as per industry requirements through different centers for excellence.

The department has established Red hat Academy, Big Data center of excellence, Software Testing & Quality Assurance center of excellence, Cyber Security center of excellence, Free and Open Source Software center of excellence, Microsoft Imagine Academy with the motive of student skill development, project development, research and consultancy activities.

The department is also associated with International Software Testing Qualification Board and spoken tutorial of IIT Bombay. Under umbrella of ICT academy we have association with Palo Alto Networks-USA, DELL EMC, , Oracle Academy, Amazon Web Services Educate for knowledge transfer and international certification programs.



**NVIDIA GPU Education Center**



**Center of Excellence in Internet of Thing**



**Operating System**



**Computer Programming**



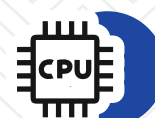
**Software**



**Project**



**Computer Graphics**



**Microprocessor**

## Majors (Tracks)



**Software Development.**



**Data Analytics.**



**Cyber Security.**



**Cloud Computing**



**Big Data**



**Digital Business**

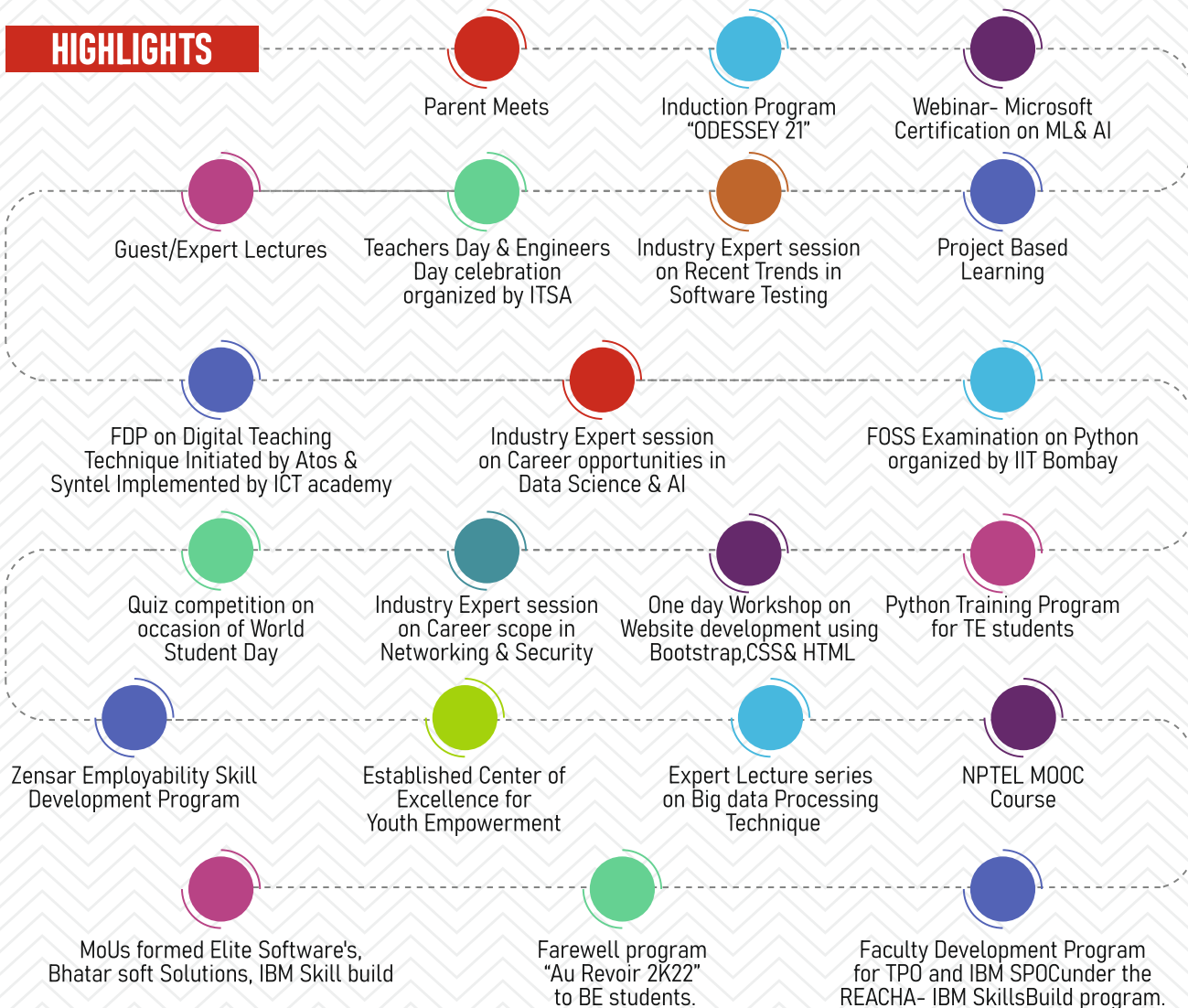


# Activities Conducted by Department of Information Technology

## ACADEMIC PROGRAMME

### ■ Bachelor of Information Technology (B. E.) : 120 Seats

#### HIGHLIGHTS



# MECHANICAL ENGINEERING

The department was established in 2007 and offers Graduate, Post Graduate and Doctoral degree programs under the guidance of competent and committed faculty members for delivery of academic programs. Well established state of art infrastructure, modern workshops and well developed laboratories helps students to cope up with the fast changing industrial requirements. To facilitate the academic interest of the students and to keep them on the cutting edge of recent technology, the department has evolved a comprehensive student-centric learning approach through workshops, lab sessions, assignments, hands on training, industrial visits, expert talks of technocrats from industrial sector, seminars, projects and independent study. Department is embedded with eight centers of excellence like Machining Centre (CNC/VMC), Welding, Robotics & Automation, Automobile, Power Plant, Metrology & Quality Control, Electric Vehicle and it helps students to apply their class room knowledge to live industrial problems. Department has affiliation with renowned industries, national and international professional bodies in the field of Mechanical Engineering.



**Machining Excellence  
Center (CNC/VMC)**



**Automobile  
Excellence Center**



**Mechatronics  
Engineering**



**Automotive  
Engineering**



**CAD CAM**



**Refrigeration and  
Air conditioning**



**Digital  
Manufacturing**



**Metrology &  
Quality Control**

## Majors (Tracks)



**Design &  
Simulation**



**Computational  
Fluid Dynamics**



**Energy  
Conversion**



**Micro Electro  
Mechanical Systems**



**Bio-Medical  
Engineering**



**Digital  
Manufacturing**

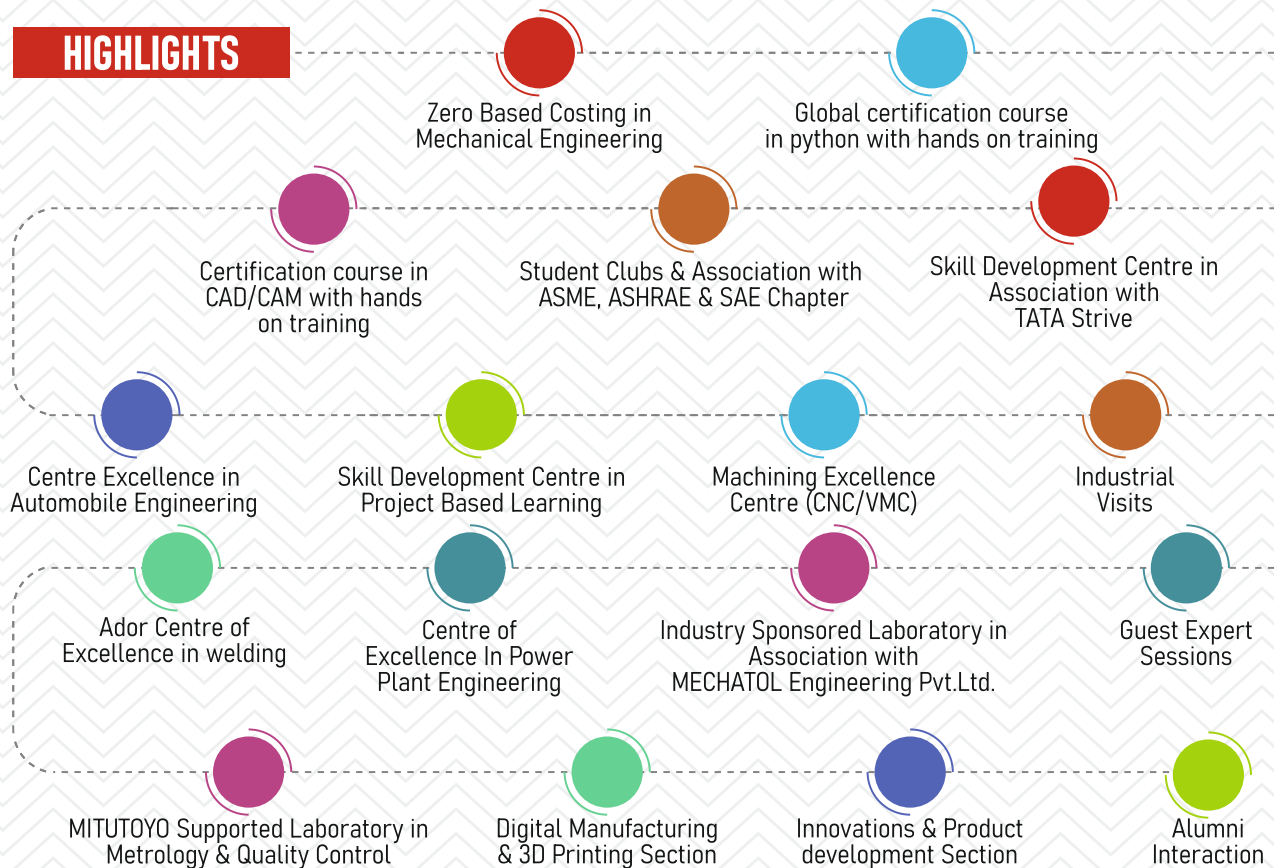


## Activities Conducted by Department of Mechanical Engineering

### ACADEMIC PROGRAMME

- Bachelor of Mechanical Engineering (B. E.) : 180 Seats
- Master of Engineering in CAD-CAM (M. E.) : 24 Seats
- Master of Engineering in Design (M. E.) : 24 Seats
- Doctorate Programme (Ph. D) in Mechanical Engineering

### HIGHLIGHTS



# ROBOTICS & AUTOMATION ENGINEERING

Zeal College of Engineering and Research, Pune has started 4 year Undergraduate (UG) Programme in “Robotics & Automation” from academic year 2020-21. The UG program is offered for all entry level engineering aspirants. The faculty members of this department come from diverse background, but are united by a common passion of robotics that share with young minds that join and work together to ignite their dreams.

Robotics & Automation is a new branch of engineering that involves the conception, design, manufacture, and operation of robots & its application. It overlaps many fields of Engineering including Mechanical, Mechatronics, Electronics, Computer Science, Artificial Intelligence, Automation, Nanotechnology and Bio Engineering. Well established & developed state of art infrastructure, modern laboratories helps students to cope up with the fast changing industrial requirements. Through theoretical and applied class work, practical labs and cooperative education experiences, graduates or post gradates emerge with industry specific strong methodologies of engineering used for analysis, problem-solving, development and customization of automation and robotics systems and components.



**Automation Technology**



**Zeal Cyborg Club for Robotics**



**Fundamentals of Robotics**



**Theory of Mechanisms**



**Manufacturing Systems and Automation**



**Control System**



**Robotic System Building & Automation**



**Robot Kinematics & Dynamics**

## Majors (Tracks)



**Mechanical Design & Simulation**



**Application of Compliant Mechanism**



**Sensors and Actuators**



**AI based Control Systems**



**Artificial Intelligence**



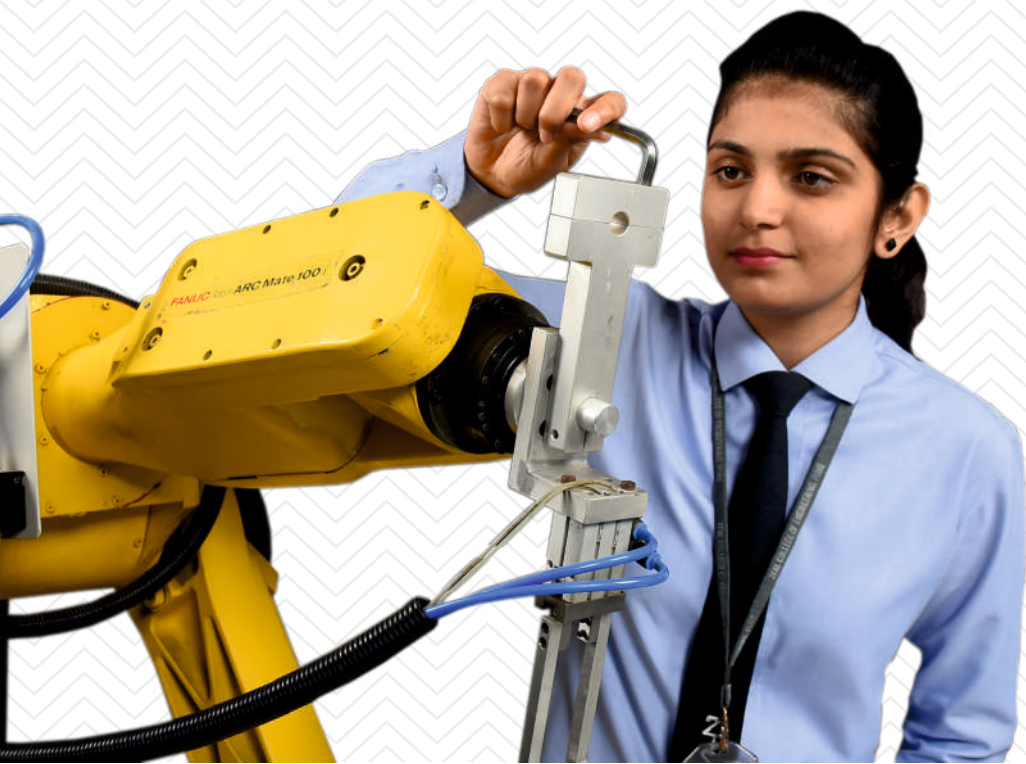
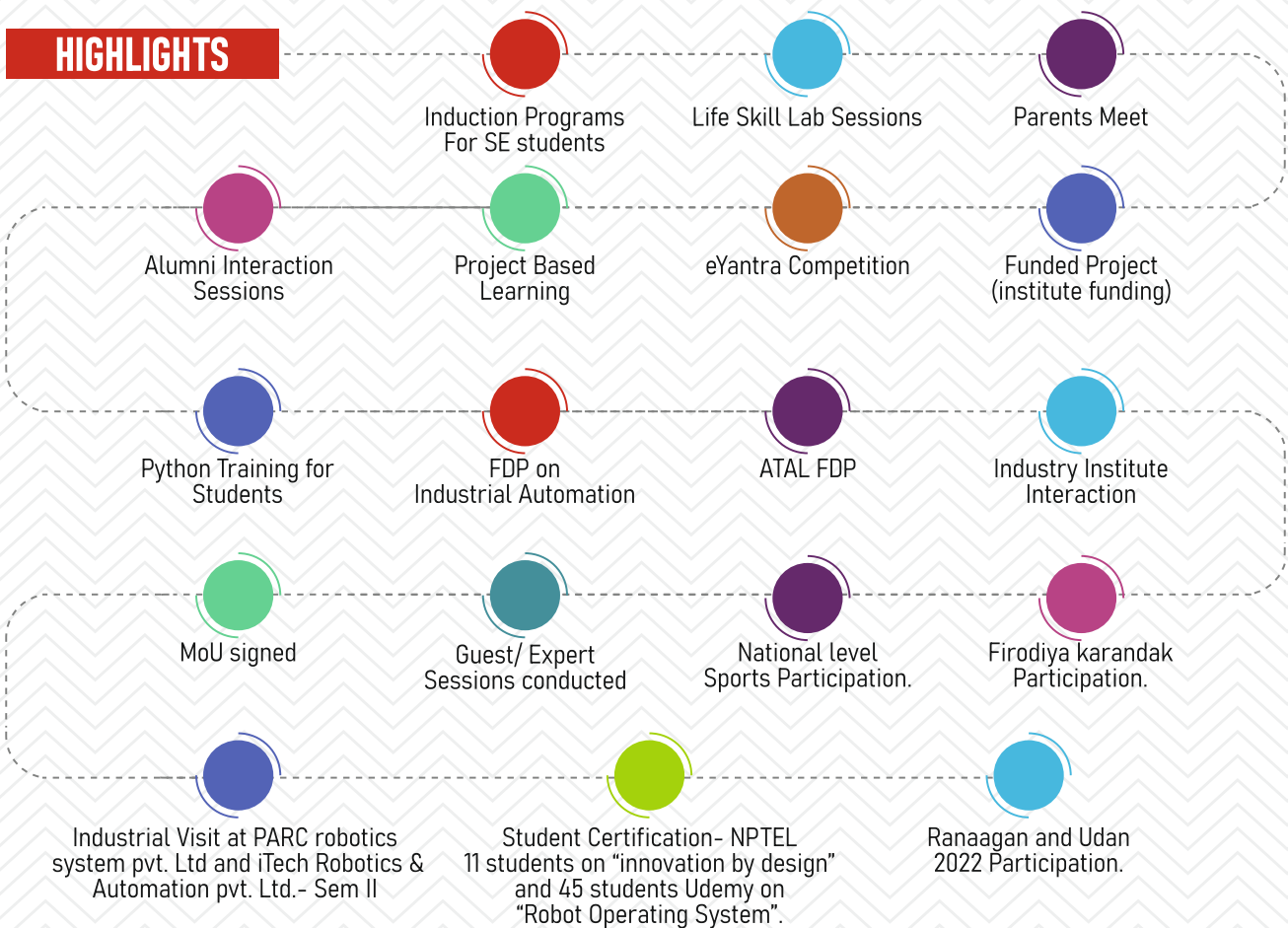
**Use of Humanoid Robots**



ACADEMIC PROGRAMME

■ Bachelor of Robotics & Automation Engineering (B. E.) : 60 Seats

HIGHLIGHTS



## DEPARTMENT OF MANAGEMENT MBA

The Department was set up in 2009. The department has grown steadily keeping pace with the development in the industry and need for all-rounders in management sphere. The students are groomed to meet the challenges of the dynamic business world.

The Institute believes in comprehensive student development in various fields for a healthy personality to serve the nation in their individual field of choice. Faculty members are engaged in many research projects. ZCOER- MBA is determined to provide all possible opportunities to meet the expectations of young ambitious students. The department is also currently expanding its activities to provide maximum employment opportunities.

ZCOER MBA has highly qualified faculties who provide continuous inputs for grooming the students to make them Industry Ready. Innovative methods of teaching and updated inputs for the students are the hallmark of the teaching methods. Workshops are conducted by leading experts and Industry professionals. Regular Guest Lectures provide Industrial exposure and emphasis on role-plays & management games to enhance the caliber of students. Devoted faculty members are the real strength of the department. Most of the faculties are Ph. Ds from various reputed universities. Staff members have published technical papers in various national and international conferences/ journals and also attended workshops to improve their technical expertise and impart advanced quality, result driven education to management students.

### Majors (Tracks)



**Business  
Analytics**



**Financial  
Management**



**Human Resources  
Management**



**Marketing  
Management**



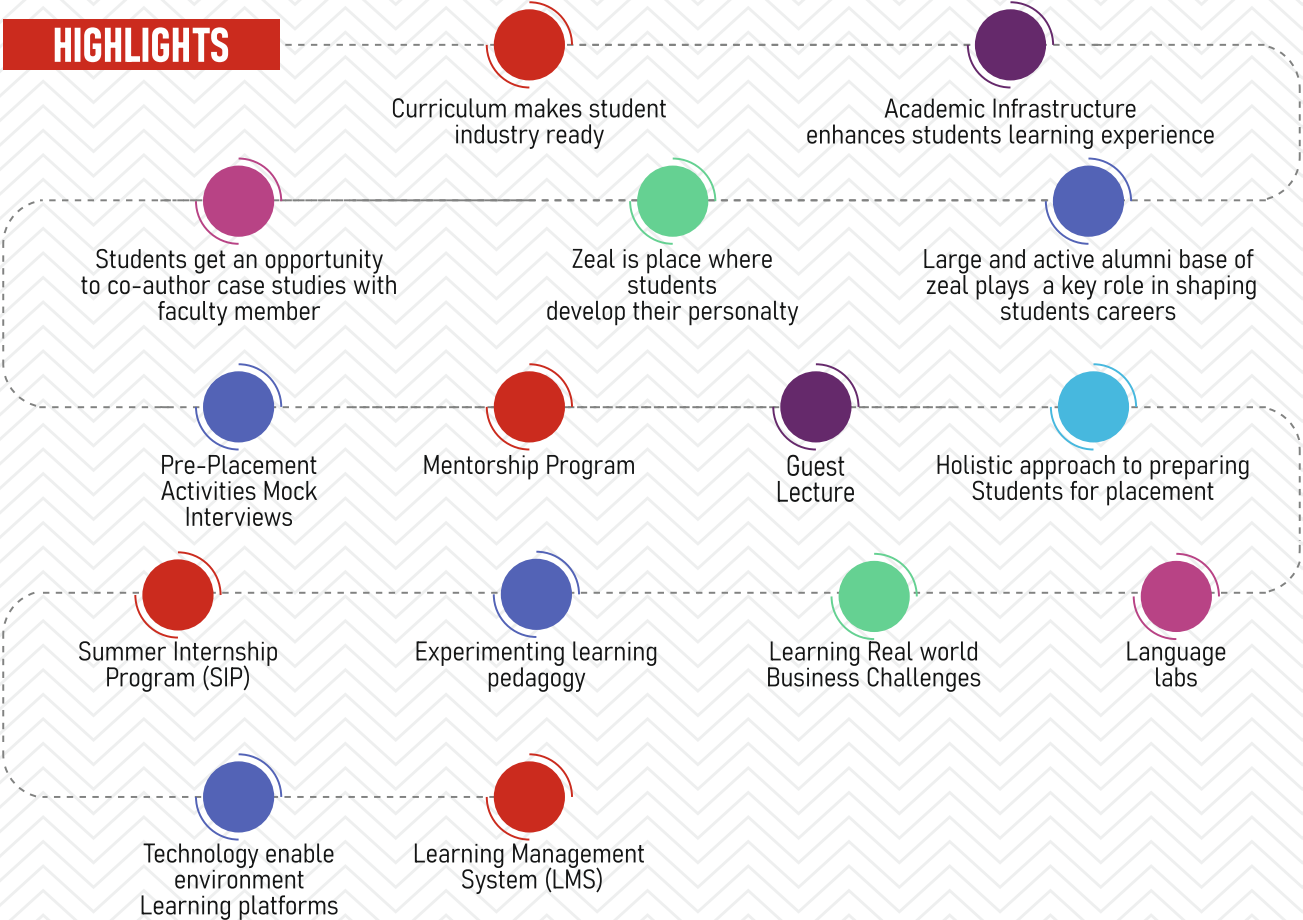
**Operations &  
Supply Chain  
Management**



ACADEMIC PROGRAMME

■ Master of Business Administration (MBA) : 60 Seats

HIGHLIGHTS



## CENTER OF EXCELLENCE IN INTERNET OF THINGS (IOT)

Internet of things is a buzz word in software industries now days. So considering this need of hour, Zeal College of Engineering and Research has recently established the Center of Excellence in software emerging trends of Internet of Things (IoT) in collaboration with renowned industries who are market leaders in sensors and microcontroller equipments. The primary objective of this centre is to create innovative real time IoT based applications and to produce trained human resource for software automation industries. This has helped us to develop training modules, networking platform for industries, academia and researchers. The idea plantation of establishing such Center of Excellence in Internet of Thing (IoT) was the thought process of our management of Zeal Education Society and it was brought into reality recently by department of Computer Engineering of Zeal College of Engineering and Research.

Zeal IoT Center of Excellence is an independent centre which offers the need of software automation industries. The objective of the centre is to bridge the gap between the Industries and the Institutes and to provide industry ready manpower in health monitoring, Home Automation, software Automation Applications, Industrial Automation and Engineering. The centre provides Industrial environment in the Institute by providing hands on training to the students in different fields of software automation like drone design, robotic programming, Home automation application designing technology, Industrial Internet technology, Smart cities Application development, IoT in Agriculture, IoT in Health Care and Internet based controls. This training centre also provides tailor made courses as per the expectations of the industries.



**Center of Excellence  
in Internet of Thing**

### Majors (Tracks)



**Drone Design**



**Healthcare**



**Industrial**



**Agriculture**



**Smart City**



**HOME Automation**



## ME INTEGRATED WITH SAP

### Opportunity to Personalise Your Career

#### Integration of SAP Certification with ME

SAP Certification is an exam conducted by SAP SE, the market leader in enterprise application software. SAP certifications help validate the expertise and experience of SAP partners, software users, customers and professionals who are looking to be placed in a SAP environment. The certification is recognized globally and is a standardized criterion for several roles and responsibilities.

#### Objectives

- Equip today's organisations to lead in the digital economy with certified individuals who are Recognized and trusted for their skills in the latest SAP technologies.
- Provide quality enabled experiences to accelerate new skill development.
- Enable individuals to foster personal development, while developing the most pressing skills Needed across the organization.



**Center of Excellence  
in Internet of Thing**

Zeal Education Society, Pune has taken an initiative to develop employability skills to promote our students on great position with a dynamic career. So to nurture them & to help them to take a great leap Zeal Educational Society has brought SAP Student Training Academy in our campus.

## ZEAL in collaboration with SAP offers "SAP Certified Consultant Course" Modules



**Finance  
Accounting (FI)**



**Human Capital  
Management (HCM)**



**Advance Business  
AP (ABAP)**



**Consultant**



**Sales & Distribution  
Management (SD)**



**SCM-Production &  
Manufacturing (PP)**



**SCM- Procurement  
Material Management (MM)**

# CENTER OF EXCELLENCE IN ELECTRIC VEHICLE

## Majors (Tracks)



**Battery Pack**



**Controller**



**Electric Traction Motor**



**Cooling System**



**Charging Station (EVCS)**



**Wireless Charging**

Zeal College of Engineering and Research (ZCOER) has always been innovative with respect to adopting emerging technologies worldwide. ZCOER is now developing a Centre of Excellence in Electric Vehicles for the first time in Pune, which will contribute and disseminate the knowledge of emerging trends in electric vehicles for Smart City and for the benefits of society at large. This would be accomplished by designing appropriate skill enhancement programs for our brilliant students. The entire design of "Zeal Center of Excellence in Electric Vehicles" has been accomplished under the guidance of eminent and leading experts working in the field of electric vehicles. Under this center, the hands-on training courses at various levels in the field of electric vehicle manufacturing, technology development and research supplementation will be covered. The Center Of Excellence is well-equipped to develop the skills required for design, manufacturing and testing of hybrid electric vehicle, solar powered electric vehicle, plug-in hybrid electric vehicle, power train, battery management system, solar operated charging system, energy storage system, electric vehicle power data converter, basic acquisition sensors and controls, IoT etc. After the successful completion of the training in the Excellence Center, the students will be able to design, manufacture and test electric vehicles.

Electric vehicle power system integration: Covers the electric connection between an electric vehicle and the electrical network to which it connects. This includes smart solar power grid operated charging stations, different topology of battery management systems (BMS) Studies .

Electric vehicle enabling technology: Covers the electric components and technologies important to the operation, performance and cost of the electric vehicle. This includes R&D and equipment testing.





## ZEAL INTELLECTUAL PROPERTY FACILITATION CENTER (ZIPFC)



**Zeal Intellectual  
Property Facilitation  
Center (ZIPFC)**

At this juncture, it is quite important that the industrial fraternity, academicians, scientists as well as individual citizen remain updated with recent developments in the field of Intellectual Property Rights (IPR). More so, it is crucial as an empowerment tool for the Micro, Small and Medium Enterprises (MSMEs). It contributes significantly to the manufacturing output, employment and exports whilst rendering consistently higher growth rate compared to the overall industrial sector. The lack of information and knowledge to protect intellectual property seemingly ails this sector to a great extent. Hence, a step in this direction has been taken by establishing an Intellectual Property Facilitation Centre (IPFC) at Zeal Education Society's, Zeal College of Engineering & Research, Narhe, Pune.

### Objectives of ZIPFC

- To encourage creative and innovative research leading to the generation of new ideas and inventions.
- To provide assistance to faculty members, staff and students of Zeal Education Society(ZES) in assessing the patentability and commercial potential of their Inventions.
- To train faculty members, staff and students about provisional patent filing procedures in India.
- To make faculty members, staff and students familiar with basic Patent filing process & make them aware about the various requirements/data to be provided for filling of patents.



**Decision of doing it yourself or engaging a professional**

**Check the patentability of an invention**

**Drafting Patent Application (Provisional or Complete)**

**Filling the Patent Application in India**

**Publication of Patent Application**

**Examination of Patent Application**

**Grant of Patent**

**Renewal of Patent**

**PROCESS FOR  
PATENT  
REGISTRATION**

## INCUBATION & ENTREPRENEURSHIP DEVELOPMENT CELL

### Incubation Center

Zeal Institutes run an incubation center for budding entrepreneurs with its students as well as other individuals of the society. Industrial bodies such as MCCIA, deAsra foundation, MEA etc promote entrepreneurship. Zeal Institutes have a strong association with these bodies who encourage, guide and promote entrepreneurship.

### Entrepreneurship Development Cell

Academic institutes have their responsibility in creating awareness about entrepreneurship. From idea generation to reality can happen with incubation centers that are established in our academic institute. Students can apply their theoretical knowledge gained in institute for successful ideas that will make them 'Job Givers rather than Job Seekers'. In the backdrop of above mentioned facts Zeal Education Society takes pride in established 'Entrepreneurship Development Cell'.

### Our Mission

Spearheading entrepreneurship movement throughout the Zeal Education Society with a belief that entrepreneurs need not necessarily be born, but can be developed through well-conceived and well-directed activities.

### Co-Working Space

Co-Working is a business services provision model that involves individuals working independently or collaboratively in shared office space.



## Our Innovation Impact



**100 +**  
Startups  
Impacted



**25+**  
Mentors Guiding  
Startups



**40 +**  
Startups Scaled Up



**50+**  
Events



**10+**  
Exclusive Programs



**10,000 +**  
Zeal-Hub Visitors



## ZEAL CENTRAL PLACEMENT CELL

Zeal Education Society is considered a global brand in the field of Engineering Education. Our rapport with the industry is attributed to our alumni who have earned laurels with their technical expertise and sincere accountability. After stamping their class in academic and corporate circles, the alumni of Zeal Education Society today are in the most challenging and demanding roles in the industry both in India and abroad. This is testimony to the trust and belief that industry has bestowed on us over the years and more importantly is a commitment from ZES to deliver the best. Apart from being the most active space on campus, the Central Placement Cell (CPC) at Zeal forms the backbone of our robust relationship with the corporates and industry. The reasons are obvious—here is where we train our students for recruitment and life skills and here is where our partners from the industry get the candidates of their choice!



Zeal Central Training &  
Placement Cell

### PROGRESSIVE PLACEMENT STATISTICS

**2021-22**  
**650**  
**OFFERS**  
(Ongoing...)

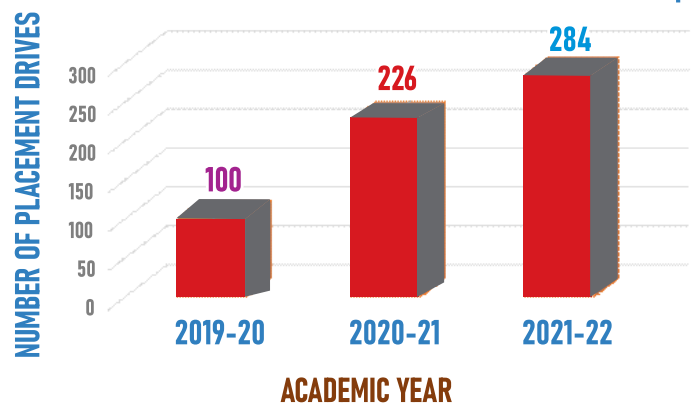
**2020-21**  
**371**  
**OFFERS**

**2019-20**  
**221**  
**OFFERS**

**2018-19**  
**360**  
**OFFERS**

**2017-18**  
**354**  
**OFFERS**

Year wise Number of Placement Drives at Zeal Narhe Campus





**1000+**  
Students  
Registered



**350+**  
Companies  
visited



**1000+**  
Placement  
Offers



**16.2 LPA**  
Highest Package  
(Global)



**14.5 LPA**  
Highest Package  
(National)



**4.5 LPA**  
Average Package

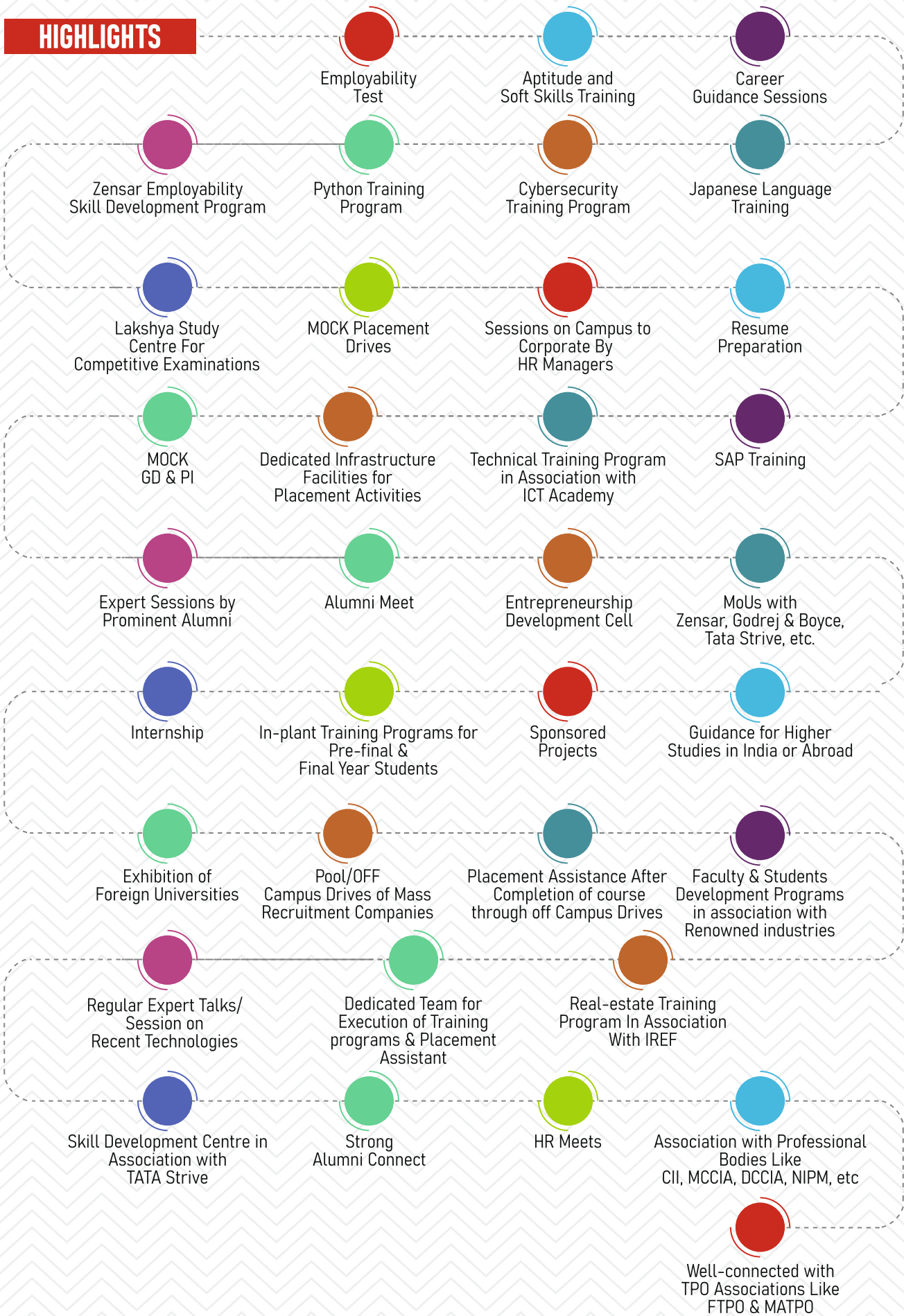
## Our Prominent Recruiters





# Highlights of Zeal Central Placement Cell

## HIGHLIGHTS





## ZEAL CULTURAL CENTER

Zeal Cultural Center is for students of Zeal institute, who love acting/ Music/ Dance/ Arts. We have our College Music Studio, Dance studio, photo studio and recording studio. The cultural center helps the students to explore and cultivate their hobbies and talents. Zeal cultural center students every year participate in various cultural events like Firodiya Karandak, Purushottam Karandak, Dajikaka Gadgil Karandak and many more.

**Music Studio**

**Photography Studio**

**Videography Studio**

**Dance Studio**

**Acting Studio (Antrang Theatre)**

**Recording Studio**

**Fashion Show Club**

**Art Studio**



**Zeal Acting  
Studio**



**Zeal Musical  
Studio**





## LIFE @ ZEAL

Pune is well known as 'The Oxford of the East' and has become an educational hub of the India. ZEAL is one of the leading Brands in engineering institutes of Pune. A lush green campus spread across 11 acres, excellent infrastructural facilities like class rooms, seminar halls, and laboratories with modern and sophisticated equipments and qualified and experienced faculty is an asset of the institute. With proven teaching learning system and good examination results, the institute has credited good academic ambience in Savitribai Phule Pune University.

### We Offer at Zeal

- Assurance of well qualified and experienced national level faculties
- State-of-the-Art infrastructure with well-equipped digital classrooms
- Modern technique to observe individual student
- Dedicated staff for students' safety and security
- Updated and national level competent study material, books and e-learning material for reference
- Enrollment for Test series
- Regular feedback and parent teacher interaction
- Regular Confidence building, life skills and personality development programs





## ZEAL SPORTS ACADEMY

### Achievement in Sports

To develop the overall personality of the students and to widen their horizons of knowledge, various co-curricular activities are organized regularly. This year the students from our Institute have participated in various Annual Zonal Sports events Volleyball, Kho-Kho, Kabaddi, Weight Lifting, and Cricket, organized by the Inter Engineering Diploma Students Sports Association (IEDSSA). In a short time, we have won various prizes in competitions and earned admiration for our efforts in extracurricular activities across the state. Students of our college eagerly look forward to the see vents and participate in large numbers. These events are organized by students under the Chairmanship of the Principal and the observation of Faculty.

### Dedicated Facilities & Coach

Kabaddi Ground Outdoor & Indoor Mat

Volleyball Court

Kho-Kho Ground

Football Ground

Basketball Court

Cricket Pitch

Throwball Court

Athletics Track & Throwing Field

Indoor Games Hall

Fitness & Yoga Center

Dance & Zumba Center

Vipassana Center

Shooting Range

Archery Range

Skating Track

Multiple Fitness Gym & Gross Training Equipment

All Games Equipment







## ZEAL TRANSPORTATION FACILITY

Transport for daily commuting is generally one of the worries of parents. To enable students to free themselves from the worries of the transportation, we have arranged buses for the students as well as staff. The College runs bus services from different locations so that students plying from any location within Pune have a near by pickup-cum-drop point to board the college bus to travel to and from college. This makes the transport hassle-free and ensures the students can focus on their studies. Parents also can have peace of mind while their wards are out in the college and need not worry about their safety.

### BUS ROUTE

#### BUS NO.1

CME GATE-SANGVI-BREMEN CHOWK - UNIVERSITY - NALSTOP-KRISHNA HOSPITAL - SHIVAJI STATUE-KOTHRUD STAND -KARVENAGAR-WARJE- ZEAL COLLEGE.

DRIVER NAME :  
MR. PRAKASH PHALAKE,  
7776920547

#### BUS NO.2

GADITAL-FATIMA NAGAR- GOLIBAR MAIDAN - SEVAN LOVES - MARKET YARD - MAHESH SO. (BIBAVEWADI) - BALAJI NAGAR - KATRAJ- ZEAL COLLEGE.

DRIVER NAME :  
MR. KIRAN BHANDAWALKAR,  
9822607768

#### BUS NO.3

VISHRANTWADI-AMBEDKAR CORNER-SIMLA OFFICE- BALGANDHARVA-ALKA THEATRE - DANDEKAR BRIDGE- RAJARAM BRIDGE - MANIK BANG-VADGAON PHATA- ZEAL COLLEGE.

DRIVER NAME :  
MR. RAHUL TAPKIR :  
9762908429

#### BUS NO.4

CHINCHWAD RAILWAY STATION- CHAFEKAR CHOWK - DANGE CHOWK - BHUMKAR CHOWK - WAKAD - BALEWADI STADIUM- BANER - SUS - BAWDHAN - CHANDANI CHOWK - RMD (WARJE)- WARJE BRIDGE- VADGAON BRIDGE - ZEAL COLLEGE.

DRIVER NAME :  
MR. SACHIN VARE : 9822709983

#### BUS NO.5

KHANAPUR - ZHALNWADI- PAIGUDEWADI-DONJE PHATA- IAT - KHADAKWASLA - KIRKATWADI - NANDEDPHATA - NANDED CITY GATE - LOKMAT - DHAIRY PHATA - DHAIRYGAON - ZEAL COLLEGE.

DRIVER NAME :  
MR. VINAYAK SAWANT  
9761228725

#### BUS NO.6

HANDEWADI - UNDARI - PISOLI - KHADIMACHINE CHOWK - ISCON TEMPLE - GOKUL NAGAR - KATRAJ - DATTANAGAR CHOWK - AMBEGAON - ZEAL COLLEGE.

DRIVER NAME :  
MR. RUPESH NANDISKAR  
7709068650

## ELIGIBILITY CRITERIONS FOR ADMISSIONS

### A) First Year - Engineering / Technology

#### (1) Maharashtra State Candidature Candidate

(i) The Candidate should be an Indian National  
(ii) Passed HSC or its equivalent examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry or Biotechnology or Biology or Technical Vocational subjects, and obtained at least 45% marks (at least 40% marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the above subjects taken together and The Candidate should have appeared in all the subjects in MHT-CET 2022 and should obtain non zero score in MHT-CET 2022.

Or

(ii) Passed Diploma in Engineering and Technology and obtained at least 45% marks (at least 40% marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only)

The highest  
result of  
education is  
tolerance



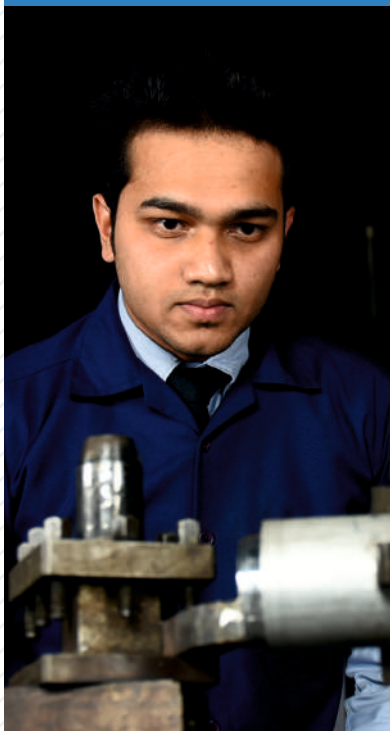
#### (2) All India Candidature Candidates, Jammu and Kashmir Migrant Candidature Candidates

(I) The Candidate should be an Indian National  
(li) Passed HSC or its equivalent examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry or Biotechnology or Biology or Technical Vocational subjects and obtained at least 45% marks (at least 40% marks, in case of Backward class categories and Persons with Disability candidates belonging to Maharashtra State only) in the above subjects taken together and should obtain non zero positive score in JEE Main Paper I or the candidate should have appeared in all the subjects in MHT-CET 2022 and should obtain non zero score in MHT-CET 2022. However, preference shall be given to the candidate obtaining non zero positive score in JEE (Main) Paper I over the candidates who obtained non zero score in MHT-CET 2022.



## ELIGIBILITY CRITERIONS FOR ADMISSIONS

The beautiful thing  
about learning is  
that no one can  
take it away  
from you



### B) Direct Second Year (Lateral Entry)- Engineering / Technology For Maharashtra State Candidature Candidate and All India Candidature Candidate

(i) The Candidate should be an Indian National;  
(ii) Passed Diploma Course in Engineering and Technology with at least 45% marks (40% marks in case of candidates of backward class categories and Persons with Disability belonging to Maharashtra State only) in appropriate branch of Engineering and Technology from an All India Council for Technical Education or Central or State Government approved Institution or its equivalent

Or

(ii) Passed B.Sc. Degree from a University Grants Commission (UGC) or Association of Indian Universities recognized University with at least 45% marks (40% in case of candidates of Backward class categories and Persons with Disability belonging to Maharashtra State only) and passed HSC with Mathematics as a subject. Provided that students belonging to this category shall clear the subjects of Engineering Graphics/ Engineering Drawing and Engineering Mechanics of the first year Engineering Program along with second year subjects.

### C) Engineering and Technology (M.E./M.Tech.)

#### For Maharashtra Candidature Candidate and All India Candidature Candidate

(i) The Candidate should be an Indian National  
(li) Passed Bachelor Degree in the relevant field of Engineering and Technology or Architecture from All India Council for Technical Education or Central or State Government approved institutions or equivalent, with at least 50% marks (at least 45% marks in case of candidates of Backward class categories and persons with disability belonging to Maharashtra State only);  
(iii) Passed Bachelor Degree in the relevant course of Engineering and Technology or Architecture as specified in the eligibility criteria for admission to a

## ELIGIBILITY CRITERIONS FOR ADMISSIONS

**Education is the  
most powerful  
weapon which  
you can use to  
change the  
world**



### **B) Direct Second Year (Lateral Entry)- Engineering / Technology For Maharashtra State Candidature Candidate and All India Candidature Candidate**

(i) The Candidate should be an Indian National;  
(ii) Passed Diploma Course in Engineering and Technology with at least 45% marks (40% marks in case of candidates of backward class categories and Persons with Disability belonging to Maharashtra State only) in appropriate branch of Engineering and Technology from an All India Council for Technical Education or Central or State Government approved Institution or its equivalent

Or

(ii) Passed B.Sc. Degree from a University Grants Commission (UGC) or Association of Indian Universities recognized University with at least 45% marks (40% in case of candidates of Backward class categories and Persons with Disability belonging to Maharashtra State only) and passed HSC with Mathematics as a subject. Provided that students belonging to this category shall clear the subjects of Engineering Graphics/ Engineering Drawing and Engineering Mechanics of the first year Engineering Program along with second year subjects.

### **C) Engineering and Technology (M.E./M.Tech.)**

#### **For Maharashtra Candidature Candidate and All India Candidature Candidate**

(i) The Candidate should be an Indian National  
(ii) Passed Bachelor Degree in the relevant field of Engineering and Technology or Architecture from All India Council for Technical Education or Central or State Government approved institutions or equivalent, with at least 50% marks (at least 45% marks in case of candidates of Backward class categories and persons with disability belonging to Maharashtra State only);  
(iii) Passed Bachelor Degree in the relevant course of Engineering and Technology or Architecture as specified in the eligibility criteria for admission to





- मागील काही वर्षात २००० हून अधिक विद्यार्थ्यांना झील सेंट्रल प्लेसमेंट सेल तर्फे नोकऱ्या उपलब्ध करून देण्यात आल्या.
- जवळपास २०० हून अधिक कंपन्या प्लेसमेंटसाठी उपलब्ध करून दिल्या जातात.
- दरवर्षी ३०० हून अधिक विद्यार्थ्यांना झील सेंट्रल प्लेसमेंट सेल तर्फे नोकरी मिळवून दिली जाते.
- क्रेडिट सुईस कंपनी तर्फे मागील वर्षी २ विद्यार्थ्यांना १२ लाखाचे पॅकेज ओएस टेक्नालॉजी कंपनी मध्ये २ विद्यार्थ्यांना १७ लाखाचे पॅकेज (आंतरराष्ट्रीय प्लेसमेंट)
- टीसीएस, कंपजेमिनी, इन्फोसिस, विप्रो, एलटीआय, मांडईटी, कॉग्निझंट, अमेझॉन, अक्सॅचर, एफएसआय, जेसीबी इंडिया, सनमार ग्रुप, टाटा टेक्नालॉजिस, झोरिएंट, पर्सिस्टंट यांसारख्या नामवंत बहुराष्ट्रीय कंपन्यांमध्ये विद्यार्थ्यांना प्लेसमेंटच्या संघ उपलब्ध करून दिल्या जातात.
- शैक्षणिक वर्ष २०२०-२१ आणि २०२१-२२ (चालू वर्षी) मिळूळ ७०० हून अधिक विद्यार्थ्यांना नोकरी मिळाली आहे. अशी माहिती ट्रेनिंग अँड प्लेसमेंट ऑफिसर प्रा.विराज वर्गे यांनी दिली.निवड झालेल्या विद्यार्थ्यांचे सर्व विभाग प्रमुख, प्राचार्य डॉ.अजित काटे, डायरेक्टर प्रा.उद्यव शिंदे यांनी अभिनंदन केले.

(AdvTL)



# THE SEXUAL HARASSMENT OF WOMEN AT WORKPLACE (PREVENTION, PROHIBITION AND REDRESSAL) ACT, 2013

An Act to provide protection against sexual harassment of women at workplace and for the prevention and redressal of complaints of sexual harassment and for matters connected therewith or incidental thereto.

As per this act and as per the guidelines provided by Directorate of Technical Education Maharashtra state, Internal Complaints Committee (ICC) has been formed. The Contact details of Presiding Officer are given below. For more details visit college website.

**Name of Presiding Officer : Prof. Mrs. Shraddha Swapnil Adewar**

**Contact Number : 9834852757**

**Email Id : shraddha.adewar@zealeducation.com**

A photograph of a large, multi-story, light-colored building, identified as Zeal College of Engineering and Research. The building has many windows and a modern architectural style. On the roof, there is a large sign that reads "ZEAL INSTITUTES" in bold, capital letters. In the foreground, there are some trees and a white car parked. The building is set against a clear sky.

**ZEAL  
INSTITUTES**

**ZEAL COLLEGE OF ENGINEERING  
AND RESEARCH**  
AICTE AND UTE APPROVED, AFFILIATED TO OPJSU, PUNE. WEB: WWW.ZEAL.ORG

## CONTACT DETAILS FOR ADMISSION

📍 Zeal Narhe Campus, S. No.39, Narhe-Dhayari Road, Narhe, Pune-411 041 (MS) India

☎ 020-67206131 📞 + 91 7558666663/64/ 8669900059/9769965420

🌐 [www.zealeducation.com](http://www.zealeducation.com) ✉ [admission.zcoer@zealeducation.com](mailto:admission.zcoer@zealeducation.com)