



# Introduction

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Introduction



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## Department Information:

Department of Chemical Engineering conducts undergraduate (UG), post-graduate (PG) and doctoral (PhD) programs in Chemical Engineering.

BE Chemical Engineering, four-year undergraduate program was started in 1996. It has evolved steadily since then and made significant strides in terms of infrastructure, faculty

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expertise, student excellence and research activities. Savitribai Phule Pune University (SPPU) has awarded permanent affiliation status for the BE program.

ME Chemical Engineering program was started in 2011 to cater to the demand of Industry and R & D establishments.

The PhD Chemical Engineering program was started in 2014-23 to enhance the research activities in the department.

### Intake of Chemical Engineering Department:

Undergraduate & Postgraduate	Annual Intake		
	UG	PG	Research Centre(Ph.D)
Chemical Engineering	60	09	20

### Vision:

- To be a leader in Chemical Engineering education providing service to society

### Mission:

- To prepare graduates for **responsible positions** in chemical industry, academia and research.
- To prepare graduates to **analyze and solve problems** of chemical industry, academia and research.
- To strengthen industry-institute interaction to develop **industry oriented attributes** like attitude, soft skills, team work and leadership.

### Long Term And Short Term Goals Of Department:

#### Short Term Goals:

- Modernize laboratory and software infrastructure
- Enhance academic performance of students
- Improve Industry-Institute Interaction

engineering/department/activities/)

> HOD Message  
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## Long Term Goals:

- Improve placement in core industries
- Obtain research grants from funding agencies
- Collaborate with industry for joint research
- Provide consultancy

## Program Outcomes (PO)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

students-chapter-2/)

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> IChE Students' Chapter  
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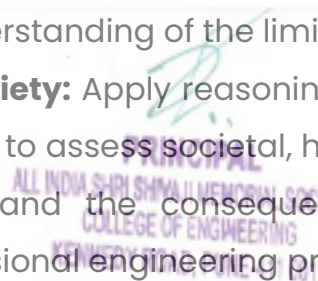
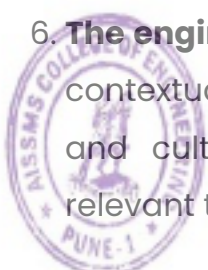
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7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and teamwork:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### Program Specific Outcomes (PSO)

#### Chemical Engineering graduates will be able to:

1. Identify, analyze, design and develop solutions to Chemical Engineering problems of practical importance to industry and society.
2. Demonstrate sound understanding of Chemical engineering fundamentals to solve problems through the use of modern experimental methods, computer aided design and simulation software.

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#### Program Educational Objectives (PEOs):



**1: Competency:** To prepare competent graduates in Chemical Engineering so that they are successful in their professional career in industry, academia or research.

**2: Problem Solving Skills:** To prepare graduates who can identify, analyze, research and solve Chemical Engineering problems of practical importance to industry, academia or research.

**3: Leadership Skills:** To prepare graduates with effective communication, teamwork and leadership skills so that they can play effective role in industry, academia and research institutes.

#### **Areas for ongoing research work:**

- Process Intensification
- Process Modeling and Simulation
- Process Development
- Waste Water Treatment
- Reaction Engineering
- Separation Processes
- Energy and Environmen

#### **Salient Features of the BE and ME programmes:**

- Well-equipped laboratories with advanced analytical instruments
- Dedicated faculty members with experience from Industry and Research
- Innovative Teaching- Learning Methodology with continuous assessment of student's performance
- Computational and Simulation software available to solve problems numerically
- Students ranked in University Results
- Well-equipped project laboratory for research

- Research by students on funded research projects
- Every year students excel in GATE, GRE and CAT /CET with many students pursuing post-graduate programs in

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Engineering/Management in India and abroad.

### All Round Development of Students through:

- Monthly presentations on project progress and seminar.
- Guest faculty is invited to impart Soft Skills training to students
- Every student undergoes in-plant training in industries compulsorily followed by presentations.
- Industry visits are organized every semester.
- Guest lectures /seminars /workshops are organized to cover advanced and emerging areas of Chemical Engineering which are beyond the purview of regular syllabus
- Participation in events (sports, technical & cultural) organized by various reputed institutes across India

### Library facilities:

- Accessibility of online journals for easy reference in project and seminars.

Departmental Library Books  
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- > UGC Portal-List of Colleges (<https://www.ugc.ac.in/oldpdf/colleges/List%20of%20colleges%20as%20on%2031-08-2017.pdf>)
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# Introduction

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Department of Civil Engineering was established in AY 2002-03. It has evolved steadily since then and made significant strides in terms of infrastructure, faculty expertise, student excellence and research activities. The Department presently has highly qualified and experienced faculty members with strong commitment to the engineering education and professional ethics. The department has well equipped laboratories and also active student's chapters of professional bodies like IEI, IGS, ISTE and IWWA.



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Recently from the academic year 2022-23, PhD Research center for the Civil Engineering has been started.

**Department Profile Click Here**  
**(<https://Aissmscoe.Com/Wp-Content/Uploads/2023/06/Departmental-Profile.Pdf>)**

### Intake Of Civil Engineering Department

Programme
UG – Civil Engineering
PG- Structural Engineering
Ph.D – Civil Engineering

### Vision:

- Nurture the talent in civil engineers to work as global leaders for development of society.

### Mission:

- Provide quality education to develop competent civil engineers.
- Create awareness among students for sustainable development.
- Cultivate the leadership qualities for becoming successful entrepreneurs.

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(<https://aissmscoe.co/engineering/research>)

> Laboratory  
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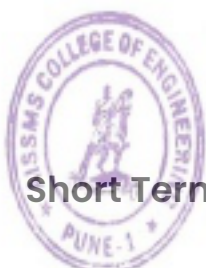
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> Annual Reports  
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> Training and Placement  
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> Industry Institute Interaction  
(<https://aissmscoe.co/engineering/industry-institute-interaction/>)

> PG Student Project  
(<https://aissmscoe.co>)



Short Term Goals

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- To augment infrastructure and processes for enhancement in teaching learning.
- To extend assistance to students for competitive examinations, higher studies and entrepreneurship.
- To establish Research centre.

## Long Term Goals

- To develop testing and consultancy facilities.
- To have cent percent Doctorate faculties.
- To strengthen collaboration with the reputed institutes and industries.

## Program Outcomes (PO's)

### PO 1:

**Engineering knowledge** – Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

### PO 2:

**Problem analysis** – Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

### PO 3:

**Design/development of solutions** – Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

engineering/pg-student-project/)

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> Student Achievement  
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**PO 4:**

**Conduct investigations of complex problems** – Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO 5:**

**Modern tool usage** – Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO 6:**

**The engineer and society** – Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO 7:**

**Environment and sustainability** – Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO 8:**

**Ethics** – Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO 9:**

**Individual and teamwork** – Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO 10:**

**Communication** – Communicate effectively on complex engineering activities with the engineering community and



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with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO 11:**

**Project management and finance** – Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO 12:**

**Life-long learning** – Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

**Program Specific Outcomes (PSO's)**

**Graduates will able to:**

**PSO1:** Exhibit technical knowledge in planning, analysis, design and management for infrastructural development.

**PSO2:** Apply the innovative technologies to address Civil Engineering problems of the society.

**PSO3:** Enhance professional abilities to meet industrial need.

**Program Educational Objectives (PEOs):**

1. To produce civil engineering's who will be fully aware of the impact of their work on society, both nationally and globally.
2. To achieve a high level of technical expertise to succeed in civil engineering practice and research.
3. To develop civil engineers who acquire professionalism, leadership and commitment to professional development through lifelong learning.

**Areas for ongoing research work:**

- Energy and environment
- Construction industry
- Structural Engineering



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- Transportation engineering
- Geotechnical Engineering
- Water resource Engineering

### **Salient Features of the UG and PG programmes**

- Well established laboratories with all necessary advanced digital instruments/equipment and all facilities required for providing quality education to the students.
- Deserved faculty members with vast experience from industry and research.
- Effective and Innovative teaching-learning process by continuous assessment of students and personal attention.
- Every year our students achieve excellence in various competitive examinations.

### **Overall Development of Students through**

- Periodical presentations of the students to assess for progress in seminar and project work.
- Study circle activities through Students Chapters like IEI, IGS, ISTE and IWWA.
- Participation of students in National level Hackathon through Innovation Cell.
- Soft skill and technical skill training for students to improve placement.
- Better interaction between Industry and Institute for all our students through MOUs, Industry Visits for each course, Expert's sessions from industry and Internships.

### **Honors Course:**

State-of-the-art courses on 'Honors in Architecture and Town Planning' and 'Honors in Metro Construction' are introduced as an Honors Program under Civil Engineering curriculum starting from June 2021. The honors courses will start from TE civil and will continue in BE as well.

The students who have scored 6.5 CGPA are allowed to opt Honors course. Choice is given to individual student to undertake Honors programs from the third year engineering



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(Fifth Semester) to fourth year engineering (Eighth Semester). Honors programs will be opted from offered programs by SPPU. Students once registered for the Honors programme need to complete all credits assigned for the specific Honors Programme in the period of 4 years from the Semester-V. Degree with Honors will be awarded only after the completion of Honors Programme along with respective UG programme degree.

### Link for the Syllabus of Honors Courses:

#### Honors Syllabus Architecture and Town Planning 02.09.2021

([https://aissmscoe.com/wp-content/uploads/2022/08/Honors-syllabus-Metro-Construction\\_02.09.2021.pdf](https://aissmscoe.com/wp-content/uploads/2022/08/Honors-syllabus-Metro-Construction_02.09.2021.pdf))

#### Honors Syllabus Metro Construction 02.09.2021

([https://aissmscoe.com/wp-content/uploads/2022/08/Honors-syllabus-Architecture-and-Town-Planning\\_02.09.2021.pdf](https://aissmscoe.com/wp-content/uploads/2022/08/Honors-syllabus-Architecture-and-Town-Planning_02.09.2021.pdf))

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> Fees Regulating Authority (<https://aissmscoe.com/fees-regulating-authority/>)

> UGC Portal–List of Colleges (<https://www.ugc.ac.in/oldpdf/colleges/List%20of%20colleges%20as%20on%2031-08-2017.pdf>)

> ERP Links (<https://aissmscoe.akronsystems.com/pLogin.aspx>)

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## Department Of Computer Engineering



One of the **Best Computer Engineering College in Pune, India** – AISSMS College Of Engineering was started in the year 1998.

The goal of the Department is to prepare students for successful careers in software and hardware industry that meets the needs of Indian and multinational companies and

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to excel in higher studies. The Department has experienced and dedicated faculty members with strong commitment to the engineering education and professional ethics.

Ranking and Achievement AISSMS College of Engineering have started newly Master degree (PG) course (ME) in Artificial Intelligence and Data Science in Department of Computer Engineering from Academic Year 2021-22

Recently from the academic year 2021-22, PhD Research center for the Computer engineering has been started.

Intake of Computer Engineering Department:

Undergraduate & Postgraduate	Annual Intake	
	UG	PG in Artificial Intelligence and Data Science
Computer Engineering Div A	60	18
Computer Engineering Div B	60	
Ph.D. Computer Engineering		

### Ph.D. RESEARCH CENTER

Department of Computer Engineering is approved research centre in Computer Engineering by Savitribai Phule Pune University since August 2021.

### Vision:

- Contributing to the welfare of society through technical and quality education.

### Mission:

- To produce Best Quality Computer Science Professionals by imparting quality training, hands on experience and value

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education.

- To Strengthen links with Industry through partnerships and collaborative developmental works.
- To attain self-sustainability and overall development through Research, Consultancy and Development Activities.
- To extend technical expertise to other technical Institutions of the region and play a lead role in imparting technical education.
- 

### Short Term Goals:

- To enhance placement activities in the department.
- To increase the participation of students in co-curricular and extra-curricular activities.
- To motivate students to develop social significant projects.
- To strengthen Industry Institute Interaction.
- To enhance research oriented activities in the department.

### Long Term Goals:

- To motivate students to enroll for internship in industry.
- To have more doctorates in the department.
- To setup the centre of excellence in collaboration with renowned industries.
- To setup the research centre in the department.
- To initiate job related certification courses.

### Programme Outcomes (PO):

**PO1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

> Training and Placement  
(<https://aissmscoe.co.in/engineering/training-and-placement/>)

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> Achievements  
(<https://aissmscoe.co.in/engineering/achievements/>)

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> Industry Institute Interaction  
(<https://aissmscoe.co.in/engineering/industry-institute-interaction/>)

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> Course Outcomes  
(<https://aissmscoe.co.in/engineering/course-outcomes/>)

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> Students Projects  
(<https://aissmscoe.co.in/engineering/me-project-guided/>)

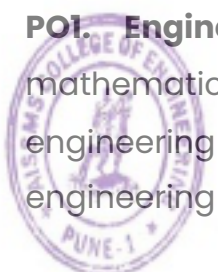
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> Social Awareness and Contribution  
(<https://aissmscoe.co.in/engineering/social-awareness-and-contribution/>)

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> Alumni  
(<http://aissmscoe.co.in/engineering/contribution/>)

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**PO2. Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**PO6. The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7. Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

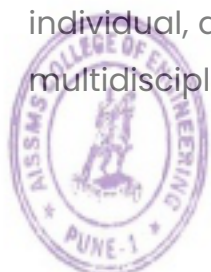
**PO8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9. Individual and teamwork** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

> Innovative Practices for Teaching and Learning  
(<https://aissmscoe.co.in/engineering/innovative-practices-for-teaching-and-learning/>)

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**PO10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **Programme Specific Outcomes (PSO):**

**PSO 1.** Students are able to devise, analyze and implement algorithms.

**PSO 2.** Students are able to exhibit their IT based knowledge for the development of Society.

**PSO 3.** Enhance communication and leadership skills to get good position in National and International Organizations.

### **Program Educational Objectives**

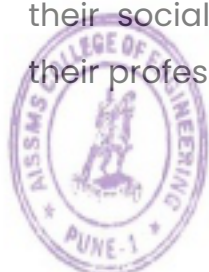
**PEO1:** To prepare the graduates for successful careers in IT industry, by developing their ability to solve computing problems in multidisciplinary environment.

**PEO2:** To develop ability among the graduates to analyze data and technical concepts for various application development of real-life.

**PEO3:** To Motivate and provide graduates various opportunities for further studies, team work and successful career in their chosen domain.

**PEO4:** To motivate and encourage graduates to understand their social, ethical and cultural responsibilities as well with their professional responsibilities.

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(<https://aissmscoe.com/fees-regulating-authority/>)
- > UGC Portal-List of Colleges  
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  - > Courses
  - > Administration
  - > Admissions  
(<http://aissmscoe.com/admission/admission-procedure/>)
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ac.in/oldpdf/colleges/List%20of%20colleges%20as%20on%2031-08-2017.pdf)

> ERP Links  
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# Introduction

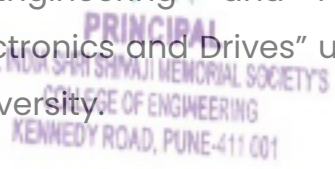
*Home (<https://aissmscoe.com>) /*

*Electrical Engineering (<https://aissmscoe.com/electrical-engineering/introduction/>) /*  
*Introduction*

## Department Of Electrical Engineering



Since its inception in 1992, One of the **Best Electrical Engineering College in Pune, India** – AISSMS College Of Engineering has registered tremendous growth in teaching and research. The Department offers a regular four-year B.E program in “Electrical Engineering”, and Post Graduate program M.E. in “Power Electronics and Drives” under affiliation of Savitribai Phule Pune University.



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> Faculty  
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> Research  
(<https://aissmscoe.com/electrical-engineering/research/>)

## Intake of Electrical Engineering Department:

Programme	Year of Establishment	Sanction Intake
UG – Electrical Engineering	1992	60
PG – Power Electronics and Drives	2011	18

### Vision:

- To be an excellent learning center in Electrical Engineering providing long term benefits to the society

### Mission:

- To impart knowledge in the field of Electrical Engineering using contemporary learning tools
- To promote research culture among students and faculty
- To serve society with deep awareness of social responsibility and ethics
- To collaborate with industry for value addition in academics

### Short-Term Goals:

- To encourage faculty for upgradation of qualification
- To promote extensive use of ICT and advanced pedagogical methodologies for enhanced learning experience
- To increase activities that encourage lifelong learning and sustainability
- To improve industry- academia collaboration

### Long-Term Goals:

> Laboratory  
(<https://aissmscoe.co.in/engineering/laboratory/>)

> Department Activities  
(<https://aissmscoe.co.in/engineering/development/activities/>)

> Academics  
(<https://aissmscoe.co.in/engineering/academics/>)

> Annual Reports  
(<https://aissmscoe.co.in/engineering/annual-reports/>)


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(<https://aissmscoe.co.in/engineering/training-and-placement/>)

> Achievements  
(<https://aissmscoe.co.in/engineering/achievements/>)

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(<https://aissmscoe.co.in/engineering/industrial-visit/>)

> PhD Research Centre  
(<https://aissmscoe.co.in/engineering/phd-research-centre/>)



  
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- To nurture an environment conducive for entrepreneurship development
- To receive funds/grants from central funding agencies
- Initiation of Research and Consultancy by involving Industry/Defense sector

engineering/phd-research-centre/)

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> Alumni  
(<https://aissmscoe.co.in/engineering/alumni/c-alumni/>)

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> Innovative Practices for Teaching and Learning  
(<https://aissmscoe.co.in/engineering/innovative-practices-for-teaching-and-learning/>)

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## Program Outcomes (POs):

### Engineering Graduates will be able to :

**Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.

**Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.

**Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

**Conduct investigations of complex problems** using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.

**Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.



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**Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development

**Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.

**Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multidisciplinary settings.

**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

**Project Management and Finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**Lifelong Learning:** Recognize the need for and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

### **Program Specific Objectives(PSOs):**

Students will be able to –

- Demonstrate knowledge and competence in solving problems of Electrical machines, Power/ Energy systems, Instrumentation & Control, Power Electronics and Automation
- Showcase the skills and abilities of applying simulation and software tools for solving engineering problems
- Exhibit their abilities of soft skills and self-learning skills through team work emphasizing high human values

### **Program Educational Objectives**



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1. Our graduates will be technically competent to solve engineering problems and demonstrate leadership skills at their chosen workplace
2. Our graduates will exhibit professional and managerial skills while working in professional organizations and simultaneously acquire higher education as per job needs
3. Our graduates will be sensitive to the contemporary technological issues and committed to serve the society locally and globally with strong ethics.

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- > Publications
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- > College Leaflet  
(<https://aissmscoe.com/wp-content/uploads/2023/05/Information-Brochure.pdf>)
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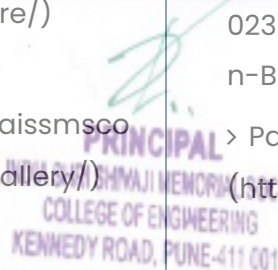
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> UGC Portal-List of Colleges  
(<https://www.ugc.ac.in/oldpdf/colleges/List%20of%20colleges%20as%20on%2031-08-2017.pdf>)

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# Introduction

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Electronics and Telecommunication Engineering (<https://aissmscoe.com/electronics-engineering/>)  
/ Introduction



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> NBA e-SAR E&TC Department  
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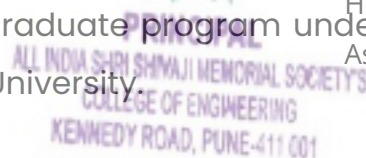
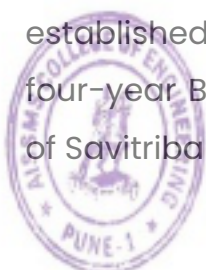
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> Faculty  
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> Research   
(<https://aissmscoe.com/electronics-engineering/research/>)

The **Department of Electronics and Telecommunication Engineering** (formerly Electronics Engineering Department established in the year 1992). The Department offers a regular four-year B.E and Post Graduate program under the affiliation of Savitribai Phule Pune University.

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Undergraduate & Postgraduate Program	Annual Intake	
	UG	PG
Electronics and Telecommunication Engineering (B E)	60	—
VLSI Design and Technology (B E)	60	
IOT and Sensor Systems(M.E)	—	18

The Department presently has highly qualified and experienced staff on roll with **6 doctorates** and 4 pursuing their PhD degree. Faculty members of the department are not only engaged in cutting-edge technology research but are also very passionate about teaching. The faculty of the department are encouraged to upgrade their knowledge by attending courses, workshops, industry training and seminars. Students are also motivated to attend seminars and project competitions at state and national levels. Department has well equipped laboratories. Besides teaching department conducts various activities for students for their overall development.

The department is having strong **industry institute interaction** and has signed number of MOU's with renowned industries. The department has a **Center of Excellence** in the field of **Robotic Process Automation**, fully sponsored by **"Automation Anywhere"**, headquartered in San Jose, California and also has a **Center of Excellence in the field of AIML** and **Integrated IOT** sponsored by **AICTE** and **Netalla Innovation Pvt. Ltd. Bangalore**

To make students ready for industry requirements the department has started Honors degree programs from AY 2020-21 related to Robotics and Automation and Machine Learning, Data Science and Internet of Things.

The students are encouraged to participate in co-curricular and extracurricular activities like Drone and Robotics National level Competitions, National level Assistant

engineering/research

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> Laboratory  
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> Department Activities  
(<https://aissmscoe.co.in/engineering/department-activities/>)

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> Academics  
(<https://aissmscoe.co.in/engineering/academics/>)

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> Annual Reports  
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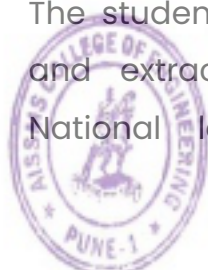
> Achievements  
(<https://aissmscoe.co.in/engineering/achievements/>)

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> Industry Institute Interaction  
(<https://aissmscoe.co.in/engineering/industry-institute-interaction/>)

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symposium, NSS etc. The department also conducts workshops, guest lectures, and Industrial visits to enhance the technical knowledge of students.

### **Vision:**

Society Growth and Welfare through Competent Electronics and Telecommunication Engineering Graduates

### **Mission:**

- To facilitate E and TC graduates with sight of innovation.
- To provide stimulating learning environment with modern tools and technologies.
- To produce dynamic graduates with ethics and moral values.
- To impart quality education in the field of E and TC engineering to solve societal and industrial problems

### **Short-Term Goals:**

- Increase number of Faculty and Student publications in referred journals
- Undertake major and minor research project and fetch research grants from funding agencies.
- Develop Virtual Laboratory for core subjects.
- Initiate customized/skill based certified courses
- Intensify the use of ICT tools for promotion of technology
- To initiate foreign language courses

### **Long-Term Goals:**

- Identify and support placements in core industries.
- To become a center of excellence in emerging area of Robotics and Automation.
- Motivating students for competitive examinations.

> Course Outcomes  
(<https://aissmscoe.co/education/course-outcomes/>)

> Achievement IE Student's Chapter E&TC Engineering  
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- To establish incubation center to produce more entrepreneurs.
- Promotion of Research and Consultancy by involving Industry.

### Strengths:

- Experienced Faculty
- Effective Teaching – Learning Process
- Industry Institute Interaction

### Opportunities:

- Research, Development, and Consultancy.
- Faculty Qualification up gradation
- Training Program ,Consultancy and Projects in association with Industries

### Program outcomes (PO):

**PO1. Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2. Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3. Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health, and safety, and the cultural, societal, and environmental considerations.

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**PO4. Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5. Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

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**PO8. Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9. Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10. Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11. Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12. Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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## Program Specific Outcomes (PSO):

An E & TC engineering graduate will be able to:

- **PSO1: Systems Development:** Design and develop prototype or system using hardware and software skills for multi-disciplinary applications.
- **PSO2: Adaptability:** Demonstrate an ability to adapt emerging technologies in the field of Artificial Intelligence machine learning, Internet of things and Robotics to solve the real life problems.
- **PSO3: Skill Development:** Develop technical and management skills through student clubs and industry interactions.

## Program Educational Objectives (PEO):

**PEO1:** To build strong fundamental knowledge among graduates required to pursue their higher education and continue professional development.

**PEO2:** To enable graduates to identify, analyze and solve Electronics Engineering problems by applying basic principles and modern techniques.

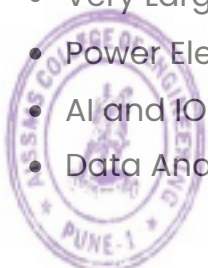
**PEO3:** To enable graduates to innovate, design and develop hardware & software components and groom their ability to succeed in multidisciplinary and diverse field.

**PEO4:** To inculcate in graduates professional attitude, effective communicational skills, team work skills for becoming a responsible, cultured human being.

## The Department has well-equipped laboratories:

- Communication Engineering Lab
- Circuits and simulations Lab
- Signal Processing and Embedded System Lab
- Very Large Scale Integration
- Power Electronics and Digital Circuits Lab
- AI and IOT Lab
- Data Analytics Lab

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- Project and Skill Development Lab
- Basic Electronics Engineering Lab

### Research & Faculty Development:

The Department has faculty strength of 13, with expertise in various disciplines of Electronics and Telecommunication Engineering and are active in research areas in signal processing, communication, embedded. They have published papers in refereed International/National journals and conferences.

The research activity involves active participation from the students, faculty and the industry. The Department has received generous grants from funding agencies like Savitribai Phule Pune University, AICTE, IETE, IE (I), and various Industries.

### Facilities:

The Department is constantly modernizing the infrastructure and lab facilities and is well supported by the Institute.

Facilities like a departmental library, computer center and seminar hall are available for students and staff.

### Library:

The Department operates its library/reference section for both students and faculty. The Department library has a collection of books in various areas of Electronics Engineering. It has a wide collection of reference books, project reports, seminar reports, Instruction manuals etc.

#### Quick Links

- > Unnat Bharat Abhiyan  
([http://unnatbharatabhiyan.gov.in/reporting\\_portal](http://unnatbharatabhiyan.gov.in/reporting_portal))
- > Hostel Facilities  
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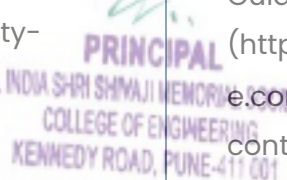
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> Online Grievance Redressal (<https://aissmscoe.com/academics/online-grievance-redressal/>)

> AICTE – Web Portal Feedback (<https://www.aicte-india.org/feedback/>)

> Fees Regulating Authority (<https://aissmscoe.com/fees-regulating-authority/>)

> UGC Portal–List of Colleges (<https://www.ugc.ac.in/oldpdf/colleges/List%20of%20colleges%20as%20on%2031-08-2017.pdf>)

> ERP Links (<https://aissmscoe.akronsystems.com/pLogin.aspx>)

> Our Institutes (<http://aissmscoe.com/about-us/our-institutes/>)

> Our Campus (<http://aissmscoe.com/about-us/college-profile/>)

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> Administration

> Admissions (<http://aissmscoe.com/admission/admission-procedure/>)

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> Safe Campus  
and Standard  
Hygiene Practice  
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# Introduction

*Home (<https://aissmscoe.com>) /*

*Mechanical Engineering (<https://aissmscoe.com/mechanical-engineering/>) /*

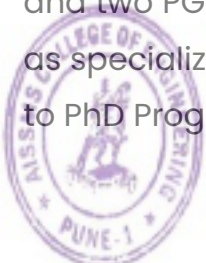
*Introduction*



Department of Mechanical Engineering Teaching and non-teaching staff

One of the Best Mechanical Engineering College in Pune, India – AISSMS College Of Engineering

Department of Mechanical Engineering was established in 1992. The department runs two undergraduate programs viz. Mechanical Engineering, Mechanical Engineering (Sandwich) and two PG programs with Automotive and Design Engineering as specialization. Department also run research Centre leading to PhD Program.



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> NBA e-SAR  
Mechanical  
Engineering  
([https://aissmscoe.cocontent/uploads/2022/SAR-\\_-Mechanical-Engineering\\_compres](https://aissmscoe.cocontent/uploads/2022/SAR-_-Mechanical-Engineering_compres))

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> Introduction  
(<https://aissmscoe.coengineering/introduct>)

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> HOD Message  
(<https://aissmscoe.coengineering/hod-message/>)

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> Faculty  
(<https://aissmscoe.coengineering/faculty/>)

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Department is having 32 Teaching Faculty members, 03 Technical staff and 06 supporting staff. Total 15 faculty members having PhD qualification. Total student strength of 750. The department is headed by Dr S V Chaitanya.

The department has well equipped laboratories with high-end software's used in industry. Our students bring laurels by succeeding in various international/national technical competitions. We have a strong culture of encouraging students to understand real life challenges through activities like BAJA, SUPRA, GO KART, EFFICYCLE, AERO-DESIGN. The department has active students chapters of professional bodies like SAE, IE(I), IMechE, ISHRAE and FPSI .

### **Vision:**

- To be recognized as a premier centre in the field of Mechanical Engineering Education

### **Mission:**

- To strive continuously for an advancement of academics and lifelong learning through effective teaching learning process.
- To strengthen industry-institute interface, association with professional societies to develop leadership, team work and industry oriented attributes through internship.
- To develop skill based mechanical engineering professionals for sustainable development through project based learning and active research

### **Short Term Goals:**

- To enhance interaction with industry.
- To strengthen association with professional bodies.
- To establish a research center.



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> Research  
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> MOU'S Signed with Industries  
(<https://aissmscoe.co.in/engineering/mou-signed-with-industries/>)

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> Laboratory  
(<https://aissmscoe.co.in/engineering/laboratory>)

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> Department Activities  
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> Academics  
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> Training and Placement  
(<https://aissmscoe.co.in/engineering/training-and-placement/>)

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> Achievements-Staff

- To increase no of short term courses.
- To modernize laboratories.

(<https://aissmscoe.co/achieven>  
[engineering/achieven](https://aissmscoe.co/achieven))

### Long Term Goals:

- To establish a center of excellence.
- To improve the qualification of faculties.
- To help students for their academic excellence to reach global standards.
- To maximize entrepreneurship development activities.
- To obtain accreditation from reputed bodies.

> Student  
Achievements  
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[engineering/student-achievements/](https://aissmscoe.co/achieven))

> PhD Admission  
(<https://aissmscoe.co/achieven>  
[engineering/phd-admission/](https://aissmscoe.co/achieven))

### Program Educational Objectives (PEO's) of Mechanical Engineering

Graduates from the mechanical engineering program are expected to achieve the following program educational objectives after 3 to 5 Years of graduation.

1. Engage in designing, planning, manufacturing, testing, and developing products and processes in the field of mechanical and allied engineering industries.
2. Work effectively as an individual and as team member in an organization.
3. Meet global expectations of higher studies, research and changing professional needs.
4. Engage in lifelong learning, career enhancement and respond to the demands of society for sustainable development.

> Course Outcomes  
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> Innovative  
Practices for  
Teaching and  
Learning  
(<https://aissmscoe.co/achieven>  
[engineering/innovativ-practices-for-teaching-and-learning/](https://aissmscoe.co/achieven))

### Program Educational Objectives (PEO's) of Mechanical Engineering (Sandwich Pattern)

Graduates from the mechanical engineering (Sandwich Pattern) program are expected to achieve the following program educational objectives after 3 to 5 Years of graduation.

> PhD Research  
Centre(Mechanical  
Engineering)  
(<https://aissmscoe.co/achieven>)



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1. Engage in designing, planning, manufacturing, testing, and developing products and processes in the field of mechanical and allied engineering industries.
2. Work effectively as an individual and as team member in an organization.
3. Meet global expectations of higher studies, research and changing professional
4. Engage in lifelong learning, career enhancement and respond to the demands of Industry and society for sustainable development.

### Program Outcomes:

1. **Engineering Knowledge:** Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, research literature and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.
3. **Design/Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.
4. **Conduct:** Investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.
5. **Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal

engineering/phd-  
research-  
centremechanical-  
engineering/)

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> ME (Mechanical-  
Design Engineering)  
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mechanical-  
design-  
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> Mechanical  
Engineering[Sandwich  
Pattern] (UG)  
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and cultural issues and the consequent responsibilities relevant to professional engineering practice.

7. **Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice.
9. **Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.
11. **Project Management and Finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long Learning:** Recognize the need for and have the preparation and ability to Engage in independent and life-long learning in the broadest context of Technological Change.

### **Program Specific Outcomes (PSOs):**

#### **Mechanical Engineering:**

- Our graduate will have competencies in design and develop mechanical elements and systems.
- Our graduate will have incremental skills to specify and select materials, processes to manufacture an industrial product.



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- Our graduate will have ability to analyze and evaluate performance of thermal system.

### **Program Specific Outcomes (PSOs) of Mechanical Engineering (Sandwich Pattern)**

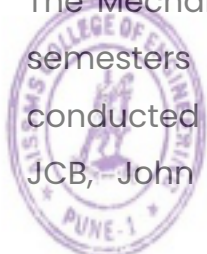
At the end of Mechanical Engineering (Sandwich Pattern) Programme

- Our graduate will have competencies in design and development mechanical elements and systems.
- Our graduate will have incremental skills to specify and select materials, processes to manufacture and inspect quality of industrial product.
- Our graduate will have industry oriented attributes through industrial In plant Training.

### **Department of Mechanical Engineering offers following programs:**

<b>Name of the Course</b>	<b>Started in</b>	<b>Intake</b>
BE Mechanical Engineering	1992	60
BE Mechanical Engineering (Sandwich)	1994	60
BE Mechanical Engineering	2012	60
ME (Mechanical – Design Engineering)	2013	18
PhD (Mechanical Engineering)	2020	25

The Mechanical Engineering (Sandwich pattern) includes two semesters of industrial in-plant training. This training is conducted in reputed industries like TATA Motors, Thermax, SKF, JCB, John Deere, Volkswagen, Mercedes-Benz, GM, Cotton

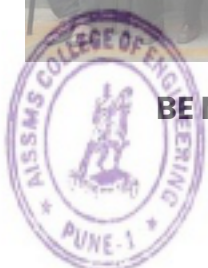


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Greveas, Sandvik Asia, Forbes Marshall, Alfa Laval, Bosch etc. The PG Course, ME (Automotive Engineering and Design), offers unique opportunity to learn new challenges in Automobile field including R & D and latest manufacturing technology. The Department presently has highly qualified and experienced staff on its roll. Besides teaching, department is engaged in various activities like research, consulting and training. The Department consistently produces University toppers and rankers. Our students bring laurels by succeeding in various international/national technical events. We have a strong culture of encouraging students to understand real life challenges through competitions like BAJA, EFFICYCLE, AERO-MODELING under SAE and GKDC under ISNEE. Our students are also actively involved in various chapters run by department. The department has well equipped Labs as per university syllabus, with computational facilities and resources both in terms of hardware and software. Department has computing systems and workstations loaded with wide range of software products like MSc ADAMS, ANSYS, MatLAB, Altair HYPERWORKS, AutoCAD, PRO-E covering all areas of mechanical engineering. The department is having state of art equipments such as four wheel Chassis dynamometer and FFT analyzer.



**BE Mechanical A Students & Teaching Faculty**



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## BE Mechanical Students along with teaching staff AY 2022-23

### BE Mechanical Sandwich Students & Teaching Faculty

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# Introduction

Home (<https://aissmscoe.com/>) /  
Production Engineering (Sandwich Pattern) (<https://aissmscoe.com/production-engineering/>)  
/ Introduction



> Introduction  
(<https://aissmscoe.com/engineering/introduct>)

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> Research  
(<https://aissmscoe.com/engineering/research>)

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> Laboratory  
(<https://aissmscoe.com/engineering/laborator>)

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**Production Sandwich Engineering Course is provisionally accredited for Two years in 2013 by the National Board of Accreditation (NBA) (AICTE)**

**Department of Production Engineering (Sandwich Pattern)**

**UG:** Intake 60

Production Engineering is a specialized branch of Mechanical Engineering which deals with Engineering Materials, Machining Science, Welding, Forming, Casting, CAD/CAM/CIM, Tool



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Design, Process Engineering & Tooling, Mechatronic, Operations Research, Economics, Finance, Accounting, Costing, Entrepreneurship Development & Modern practices like TQM, BPR, Concurrent Engineering, Lean Manufacturing, JIT, TPM, SCM, etc. This is a unique branch of engineering in which a balanced approach is given towards basic branch of Mechanical Engineering and Management Science. Candidates having creative, innovative mind, sound technical knowledge, analytical skills, & processing excellent leadership qualities will probably find Production engineering as a challenging & lucrative career. The Production Engineers are employed by Manufacturing, Automobile, Management Consultancies, Finance & Investment Consultancies, Construction, Jewelers, Refining, Service industries, etc. The course leading to a bachelor's degree in Production Engineering (Sandwich) was started in the year 1994. One of the **Top College for Production Engineering in Pune – AISSMS College Of Engineering** qualified and experienced staff on its roll. The activities of the Department are conducted, besides teaching, in the areas of research, consulting, training, alumni and Training and Placement.

### Vision:

- Contributing to the welfare of society through technical and quality education.

### Mission:

- To produce Best Quality Computer Science Professionals by imparting quality training, hands on experience and value education.
- To Strengthen links with Industry through partnerships and collaborative developmental works.
- To attain self-sustainability and overall development through Research, Consultancy and Development Activities.

> Department Activities  
(<https://aissmscoe.co.in/engineering/department-activities/>)

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> Academic Calendar  
(<https://aissmscoe.co.in/engineering/academic-calendar/>)

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> Academics  
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> Annual Reports  
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> Training and Placement  
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> Achievements  
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> Industry Institute Interaction  
(<https://aissmscoe.co.in/engineering/industry-institute-interaction/>)

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- To extend technical expertise to other technical Institutions of the region and play a lead role in imparting technical education.

> Technical Event  
(<https://aissmscoe.co/engineering/industry-institute-interaction/>)

---

### Long Term Goals

- Obtain research grant from funding agencies like DST & UGC
- Provide Consultancies
- Collaboration with Industries for joint research
- Establish center for excellence in automation
- To develop virtual laboratory for core subjects
- To establish incubation center to produce more entrepreneurs

> Course Outcomes  
(<https://aissmscoe.co/engineering/course-outcomes/>)

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> Upcoming Exam Time Table  
(<https://aissmscoe.co/engineering/upcomin-exam-time-table/>)

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### Short Term Goals

- Modernization of Lab
- Strengthening Research and consultancy
- Improve placement in core industries through Industry Institute Interaction
- Participation of National Swayam entrepreneur forum
- To initiate customize / skilled based certified courses

> Alumni  
(<http://aissmscoe.cor/engineering/contribut-alumni/>)

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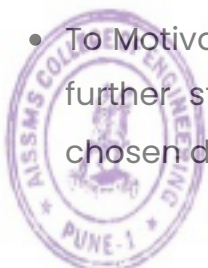
> Innovative Practices for Teaching and Learning  
(<https://aissmscoe.co/engineering/innovativ-practices-for-teaching-and-learning/>)

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### Programme Educational Objectives(PEO):

- To prepare the graduates for successful careers in IT industry, by developing their ability to solve computing problems in multidisciplinary environment.
- To develop ability among the graduates to analyze data and technical concepts various application development for real life.

- To Motivate and provide graduates various opportunities for further studies, team work and successful career in their chosen domain.



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- To motivate and encourage graduates to understand their, Social ,ethical and Cultural responsibilities as well with their professional responsibilities.

### **Program Outcomes(PO):**

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.



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8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### **Programme Specific Outcomes (PSO):**

**PSO1:** Graduate is able to demonstrate capacity for self-Learning & growth; and scholarly activity in their respective fields of study.

**PSO2:** Graduate is able to demonstrate excellence in Critical Thinking, Problem- Solving, analysis and strategic planning

**PSO3:** An Industry ready graduate is able to create his/her position in organisation where he/she undergoes Industrial Inplant Training.

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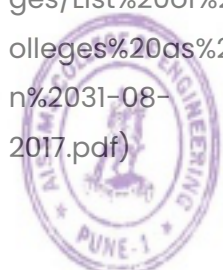
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