

DEPARTMENT OF AUTOMOBILE ENGINEERING

Program Outcomes PO

Engineering Graduates will be able to:

- POI. Engineering Knowledge: Apply the knowledge of science, mathematics, engineering fundamentals and engineering specialization for research, innovation and solving automobile engineering problems.
- 2. Problem Analysis: Use the basic principles of natural science, mathematics and engineering for identifying and analyzing the automobile engineering problems to reach the suitable conclusions.
- Design/Development of Solutions: Design solutions for tomobile engineering problems to meet the specified eds with appropriate consideration to the environment, lic health and safety.
- duct Investigations of Complex Problems: Use ch-based knowledge including design of experiments, terpretation and synthesis of information to provide nclusions.
- Tool Usage: Select the appropriate techniques,

- resources, modern engineering including modelling and prediction for automobile engineering activities with an understanding of the limitations.
- PO6. The Engineer and Society: Apply reasoning and logical POIL Project Management and Finance: Manage projects in thinking relevant to automobile engineering with understanding of consequent responsibilities towards societal, health, safety, legal and cultural issues.
- PO7. Environment and Sustainability: Understand the cause of professional engineering solutions in societal and environmental contexts to conserve suitable environment for sustainable development.
- POS. Ethics: Apply ethical principles, commit to professional ethics and responsibilities and norms of the automobile engineering.
- PO9. Individual and Teamwork: Function effectively as an individual or as a member or leader in diverse teams and in multidisciplinary settings.
- PO10. Communication: Communicate effectively with engineering community in automobile engineering activities, be

- able to comprehend, write effective reports, design documentations and make effective presentation with clear instructions.
- multidisciplinary environment with the skill of handling monetary resources in one's own work.
- POI2 Life-long Learning: Recognize the need for life-long learning in the broadest context of technological change

- PSOI. Engineering Graduates will be able to utilize the principles of designing, machine manufacturing and thermal engineering to meet the automobile engineering requirements.
 - PSO2. Engineering Graduates will be able to provide sustainable solution to automobile engineer problems.



THEEM COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

Program Outcomes PO

Engineering Graduates will be able to:

- POL Engineering Knowledge: Apply the knowledge of science, mathematics, engineering fundamentals and engineering specialization for research, innovation and solving civil engineering problems.
- PO2. Problem Analysis: Use the basic principles of natural science, mathematics and engineering for identifying and analyzing the civil engineering problems to reach suitable conclusions.
- Design/Development of Solutions: Design solutions for civil engineering problems to meet the specified needs with appropriate consideration to the environment, public health and safety.
- Conduct Investigations of Complex Problems: Use research-based knowledge including design of experiments, data interpretation and synthesis of the information to provide valid conclusions.
- Modern Tool Usage: Select the appropriate techniques,

- resources, modern engineering technology including modeling and prediction for civil engineering activities with an understanding of the limitations.
- PO6. The Engineer and Society: Apply reasoning and logical PO11. Project Management and Finance: Manage projects in thinking relevant to civil engineering with understanding of consequent responsibilities towards societal, health, safety, legal and cultural issues.
- PO7. Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts to conserve suitable environment for sustainable development.
- POS. Ethics: Apply ethical principles, commit to professional ethics and responsibilities and norms of the civil engineering.
- PO9. Individual and Teamwork: Function effectively as an individual or as a member or leader in diverse teams and in multidisciplinary settings.
- PO10. Communication: Communicate effectively with engineering community in civil engineering activities,

be able to comprehend and write effective reports, design documentations to make effective presentation with clear instructions.

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- multidisciplinary environment with the skill of handling monetary resources in one's own work.
- PO12 Life-long Learning: Recognize the need for life-long learning in the broadest context of globally changing and challenging environment.

- PSOL Engineering Graduates will be able to utilize the principles, methods and code of practice to excel in the area of drawing, designing and analysis related to civil engineering system.
- **PSO2.** Engineering Graduates will be able to provide sustainable solution to civil engineering problems.

THEEM COLLEGE OF ENGINEERING DEPARTMENT OF INFORMATION TECHNOLOGY

"To become a center of excellence in information technology discipline and to create technically capable and intellectual IT professionals."

Mission

- » To nurture an effective teaching-learning process to provide in-depth knowledge of principles and its applications pertaining to information technology
- » To provide an environment to students and faculty for continuous-learning to apply and explore the knowledge to meet global challenges
- » To inculcate creative thinking through industry sponsored projects and innovative exercises to become employable

- PEO1. To provide wide knowledge of mathematics, science, basic computing engineering to pursue advanced study for research.
- PEO2. To impart core professional skills with latest technologies for immediate employment.
- **PEO3.** To prepare students to identify, formulate and solve IT problems.
- PEO4. To inculcate ethical values, interpersonal skills, leadership qualities to become successful in professional career.



ELECTRONICS & TELECOMMUNICATION ENGINEERING

Program Outcomes PO

Engineering Graduates will be able to:

- PO1. Engineering Knowledge: Apply the knowledge of science, mathematics, engineering fundamentals and engineering specialization for research, innovation and solving electronics and telecommunication engineering problems.
- Problem Analysis: Use the basic principles of science, mathematics and engineering for identifying and analyzing the electronics and telecommunication engineering problems to reach the suitable conclusions.
- PO3. Design/Development of Solutions: Design algorithm, circuit and system to meet specified needs and solutions with appropriate consideration to the environment, public health and safety.
- PO4. Conduct Investigations of Complex Problems: Use research-based knowledge to conduct experiements, analyze and interpret the date of analog and digital system for substantiated conclusion.
- 05. Modern Tool Usage: Select the appropriate techniques,

modern resources, IT tools including modeling and prediction for electronics and telecommunication engineering practice.

- PO6. The Engineer and Society: Apply reasoning and logical PO11. Project Management and Finance: Manage projects in thinking relevant to electronics and telecommunication engineering with understanding of consequent responsibilities towards societal, health, safety, legal and cultural issues.
- PO7. Environment and Sustainability: Understand the PO12 Life-long Learning: Recognize the need for life-long impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of, and need for sustainable development.
- POS. Ethics: Apply ethical principles, commit to professional ethics and the responsibilities and the norms of electronics and telecommunication engineering practice.
- PO9. Individual and Teamwork: Function effectively as an individual or as a member or leader in diverse teams and in multidisciplinary settings.
- PO10. Communication: Communicate effectively with engineering community in electronics and telecommunication engineering

activities, be able to comprehend and write effective reports. design documentations and make effective presentation with exchange of clear instructions.

- multidisciplinary environment with the skill of handling monetary resources in one's own work, as a member or leader in teamwork.
- learning and poseess the ability to engage in the broadest context of technological change.

Program Specific Outcomes PSO

- PSOL Engineering Graduates will be able to apply the knowledge of engineering specialization in designing, analyzing, implementing and testing electronic system.
- PSO2. Engineering Graduates will be able to use all types of software and hardware tools to provide sustainable solutions to electronic and telecommuncation problems



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ELECTRONICS & TELECOMMUNICATION ENGINEERING

Vision

"Generating curiosity among students to become researcher, responsible technocrats and innovative professionals in the field of electronics and telecommunication engineering."

Mission

- » To impart students valuable technical knowledge and creativity through excellent
- » To enable students facing engineering challenges by providing a unique learning environment and more industrial practical exploration
- » To provide ethical and value-based education to develop engineering technocrats and professionals for the service of the society and nation

- PEO1. Imparting the knowledge of a solid foundation in mathematics, science and engineering fundamentals to pursue both intellectual and professional growth.
- PEO2. Producing technically sound and competent graduates with the ability of designing, analyzing, developing and implementing electronic system.
- PEO3. Preparing the engineering graduates productive and successful in their career.
- PEO4. Catering students in learning experience of positive attitude, ethical values, effective communication and interpersonal skills.

DEPARTMENT OF INFORMATION TECHNOLOGY

Program Outcomes PO

Engineering Graduates will be able to:

- POI. Engineering Knowledge: Apply the knowledge of science, mathematics, engineering fundamentals and engineering specialization for research, innovation and solving information technology engineering problems.
- PO2. Problem Analysis: Use the basic principles of natural science, mathematics and engineering for identifying and analyzing the information technology engineering problems to reach the suitable conclusions.
- PO3. Design/Development of Solutions: Design solutions for information technolgy engineering problems and to meet the specified needs with appropriate consideration to the environment, public health and safety.
- Conduct Investigations of Complex Problems: Use research-based knowledge including design of experiments, data interpretation and synthesis of information to provide valid conclusions.
- O5. Modern Tool Usage: Select the appropriate techniques,

modern resources to create IT tools including modeling and prediction for information technology engineering activities with an understanding of the limitations.

- PO6. The Engineer and Society: Apply reasoning and logical thinking relevant to information technology engineering with understanding of consequent responsibilities towards societal, health, safety, legal and cultural issues.
- PO7. Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts to converse suitable environment for sustainable development.
- POS. Ethics: Apply ethical principles, commit to professional ethics and the responsibilities and the norms of information technology engineering.
- PO9. Individual and Teamwork: Function effectively as an individual or as a member or leader in diverse teams and in multidisciplinary settings.
- PO10. Communication: Communicate effectively with engineering community in information technology

engineering activities, be able to comprehend, write effective reports, design documentations and make effective presentation with exchange of clear instructions.

- POIL Project Management and Finance: Manage projects in multidisciplinary environment with the skill of handling monetary resources in one's own work.
- PO12. Life-long Learning: Recognize the need for long-life learning and possess the ability to engage in the broadest context of technological change.

- PSOL Engineering Graduates will be able to demonstrate database, networking and programming technologies with realistic constraints.
- PSO2. Engineering Graduates will be able to design logical algorithms to meet the global needs and problems.

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THEEM COLLEGE OF ENGINEERING DEPARTMENT OF CIVIL ENGINEERING

Vision

"To set-up a technical excellence centre to produce responsible technocrats to serve the society and nation."

Mission

- » To enhance students civil engineering skills through value-based quality education
- » To enable students to reach their goals by providing a congenial learning atmosphere
- » To inculcate students ethical principles and technically sound professionals to solve the problems of the society

- **PEO1.** Ensuring to provide basic knowledge of science and mathematics.
- PEO2. Imparting civil engineering skills to contribute in developing infrastructure and solving societal problems.
- PEO3. Imparting the knowledge of design and analysis for using the codes of practice and software tools.
- **PEO4.** Motivating students for higher studies to serve the community.



"To be an excellence centre in the field of imparting mechanical engineering education, training and empowering technical skills and to adapt research and transformation culture."

- >> To educate students the mechanical engineering knowledge for life-long learning and empower their professional skills to meet the career challenges
- >> To commit for professionalism, initiative, integrity, innovation and willingness to
- To facilitate project-based learning for research, innovation and transfer of technology

- O1. To acquire basic principles and knowledge of science and mathematics and its
- To achieve peer recognition as an individual and able to lead a team through engineering skill demonstration.
- To develop abilities for successful professional career with ethical and moral values.
- A competency to pursue life-long learning and to deal with challenges.



"To become a center of excellence in the field of electrical engineering to produce competent engineering graduates to serve the nation."

Mission

- » To provide an atmosphere to the staff and students for continuous learning, applying, investigating and transfer of knowledge
- » To promote student centered teaching-learning environment for developing professional technocrats with ethical values
- >> To provide suitable forums for enhancing research and creativity

- PEO1. To acquire a strong background in basic science and mathematics and ability to use electrical engineering tools.
- EO2. To enable effective knowledge of electrical engineering in students to solve complex engineering problems.
- EO3. To produce graduates communicating effectively with colleagues, clients, employers and society with professional outlook.
- 204. To attain professional excellence through life-long learning.



DEPARTMENT OF CIVIL ENGINEERING "To set-up a technical excellence centre to produce responsible technocrats to serve the society and nation."

- >> To enhance students civil engineering skills through value-based quality
- » To enable students to reach their goals by providing a congenial learning
- » To inculcate students ethical principles and technically sound professionals

- PEO1. Ensuring to provide basic knowledge of science and mathematics.
- PEO2. Imparting civil engineering skills to contribute in developing infrastructure
- PEO3. Imparting the knowledge of design and analysis for using the codes of
- PEO4. Motivating students for higher studies to serve the community.



THEEM COLLEGE OF ENGINEERING RTMENT OF AUTOMOBILE ENGINEERING

Vision

"Providing high quality technical and professional education to empower the automobile engineers for contributing to global demand."

Mission

- » To inculcate the recent technological trends in learning and research activities
- » To offer opportunities for undertaking collaborative projects with automotive industry as a long-term learning
- » To impart the knowledge of state-of-art designing and simulation of vehicle with better safety and less pollution

- PEO1. To acquire fundamental technical knowledge and develop essential proficiency in varied areas of basic science, mathematics and engineering science.
- PEO2. To inculcate core automobile areas such as vibration, thermal engineering, design of automotive system and autotronics to meet the automobile industry challenges.
- PEO3. To enhance competency in interdisciplinary approach and research activities.
- EO4. To inculcate teamwork, leadership skills, problem solving and decision making skills and entrepreneurship.



DEPARTMENT OF COMPUTER ENGINEERING

Program Outcomes PO

Engineering Graduates will be able to:

- POI. Engineering Knowledge: Apply the knowledge of science, mathematics, engineering fundamentals and engineering specialization for research, innovation and solving computer engineering problems.
- PO2. Problem Analysis: Use the basic principles of natural for identifying and analyzing the computer engineering problems to arrive valid conclusions.
- PO3. Design/Development of Solutions: Design solutions needs with appropriate consideration to the environment, public health and safety.
- research-based knowledge including design of experiments, data interpretation and synthesis of the information to provide valid conclusions.
- Modern Tool Usage: Select the appropriate techniques,

resources, modern engineering including modeling and prediction to design computer applications for computer engineering activities with understanding of the limitations.

- PO6. The Engineer and Society: Apply reasoning and logical thinking relevant to computer engineering with understanding of consequent responsibilities towards societal, health, safety, legal and cultural issues.
- science, mathematics and engineering specialization for PO7. Environment and Sustainability: Understand the impact of computer engineering solutions in societal and environmental contexts and demonstrate the knowledge for sustainable development.
- for computer engineering problems to meet the specified POS. Ethics: Apply ethical principles, commit to professional ethics and responsibilities and norms of the computer engineering.
- PO4. Conduct Investigations of Complex Problems: Use PO9. Individual and Teamwork: Function effectively as an individual or as a member or leader in diverse teams and in multidisciplinary settings.
 - POID Communication: Communicate effectively with engineering community in computer engineering

activities, be able to comprehend and write effective reports, design documentations and make effective presentation with clear instructions.

- Project Management and Finance: Manage multidisciplinary environment with the skill of handling monetary resources in computer engineering projects.
 - POI2 Life-long Learning: Recognize the need for engaging in life-long learning in the context of technological change.

Program Specific Outcomes PSO-

- PSOI Engineering Graduates will be able to apply the knowledge of mathematics, basic science and basi computing in general and in identifying, formulati and solving the real life computer engineer problems.
 - **PSO2.** Engineering Graduates will be able to acc innovation for industrial and social needs

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DEPARTMENT OF ELECTRICAL ENGINEERING

Program Outcomes PO

Engineering Graduates will be able to:

- POLEngineering Knowledge: Apply the knowledge of science, mathematics, engineering fundamentals and engineering specialization for research, innovation and solving electrical engineering problems.
- O2. Problem Analysis: Use the basic principles of natural science, mathematics and engineering specialization for identifying and analyzing the electrical engineering problems to reach suitable conclusions.
- O3. Design/Development of Solutions: Design solutions for electrical engineering problems to meet the specified needs with appropriate consideration to the environment, public health and safety.
- Conduct Investigations of Complex Problems: Use research-based knowledge including design of experiments, data interpretation and synthesis of information to provide valid conclusions.
- Modern Tool Usage: Select the appropriate techniques,

modern resources including modeling and prediction for simulation and commissioning the complete system of electrical engineering activities.

- PO6. The Engineer and Society: Apply reasoning and logical thinking relevant to electrical engineering with understanding of consequent responsibilities towards societal, health, safety, legal and cultural issues.
- PO7. Environment and Sustainability: Understand the effect of professional engineering solutions in societal and environmental contexts to convert suitable environment for sustainable development.
- POS. Ethics: Apply ethical principles, commit to professional ethics and the responsibilities and the norms of electrical engineering.
- PO9. Individual and Teamwork: Function effectively as an individual or as a member or leader in diverse teams and in multidisciplinary activities.
- PO10. Communication: Communicate effectively with engineering community in electrical engineering activities

be able to comprehend and write effective reports, design documentations and make effective presentation with exchange of clear instructions.

- POII. Project Management and Finance: Manage projects in multidisciplinary environment with the skill of handling monetary resources of one's own work.
- PO12. Life-long Learning: Recognize the need for life-long learning to engage local and global current trend changing environment.

- PSO1. Engineering Graduates will be able to design, formulate and investigate various problems of electric and electronic circuits, power electronics and power systems.
- PSO2. Engineering Graduates will be able to apply modern software tools for design, simulation and analysis of communication system.



RTMENT OF MECHANICAL ENGINEERING

Program Outcomes PO

Engineering Graduates will be able to:

- PO1. Engineering Knowledge: Apply the knowledge of science, mathematics, mechanical engineering fundamentals and specialization for research and innovation and engineering problem solving.
- PO2. Problem Analysis: Use the basic principles of science, mathematics and engineering for identifying and analyzing the mechanical engineering problems and to meet the desired needs.
- PO3. Design/Development of Solutions: Design the system and simulation to find suitable solutions to mechanical engineering problems and needs.
- PO4. Conduct Investigations of Complex Problems: Use research-based knowledge including design of experiments, data interpretation and synthesis of information to provide valid conclusions.
- O5. Modern Tool Usage: Use the appropriate techniques, modern engineering tools and skills including modelling

and simulation to bring the technology transfer with an understanding of the limitations.

- PO6. The Engineer and Society: Apply scientific reasoning methodologies appropriate to mechnical engineering with understanding of consequent responsibilities towards societal, health, safety, legal and cultural issues.
- PO7. Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts to conserve suitable environment for sustainable development.
- POS. Ethics: Apply ethical principles, commit to professional ethics and the responsibilities alongwith the norms of mechanical engineering practice.
- PO9. Individual and Teamwork: Function effectively as an individual or as a member or leader in diverse teams and in multidisciplinary settings.
- POIO Communication: Communicate effectively with engineering community, be able to comprehend,

write effective reports and design documentations and make effective presentation with clear instructions.

- POIL Project Management and Finance: Manage projects in multidisciplinary environment by using modern engineering tools with the skill of handling monetary resources.
- POD Life-long Learning: Recognize the need for life-long learning to keep pace with technological and professional advancement.

Program Specific Outcomes PSO

- PSOL Engineering Graduates will be able to apply the acquired mechanical engineering knowledge for the benefit and improvement of self and the society.
- PSO2. Engineering Graduates will be able to implement the learnt principles and skills to analyze, evaluate and create more advanced mechanical systems of processes.

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DEPARTMENT OF COMPUTER ENGINEERING

Vision

"To be an academic excellence centre in producing global standard engineering graduates through effective teaching-learning environment."

Mission

- >> To provide advanced technical resources and platforms to students to take-up the challenges of digital world
- >> To transform student community into potential technocrats with ethical and moral values to build the nation
- » To explore the student through collaborative learning process for long-term interaction with academics and industries

- PEO1. Developing well-groomed and dynamic computer graduates with fundamental knowledge of mathematics, basic science and basic computing.
- PEO2. Imparting the knowledge of designing and developing computer applications by using modern tools and techniques.
- PEO3. Nurturing life-long learning skills to evolve technical challenges and opportunities.
- PEO4. Preparing successful professionals with awareness and commit to ethical and social responsibilities.



DEPARTMENT OF CIVIL ENGINEERING

Program Outcomes PO

Engineering Graduates will be able to:

- FOI. Engineering Knowledge: Apply the knowledge of science, mathematics, engineering fundamentals and PO6. The Engineer and Society: Apply reasoning and logical engineering specialization for research, innovation and solving civil engineering problems.
- PO2. Problem Analysis: Use the basic principles of natural science, mathematics and engineering for identifying and analyzing the civil engineering problems to reach suitable conclusions.
- PO3. Design/Development of Solutions: Design solutions for civil engineering problems to meet the specified needs with appropriate consideration to the environment, public health and safety.
- PO4. Conduct Investigations of Complex Problems: Use research-based knowledge including design of experiments, data interpretation and synthesis of the information to provide valid conclusions.
- **D5.** Modern Tool Usage: Select the appropriate techniques,

resources, modern engineering technology including modeling and prediction for civil engineering activities with an understanding of the limitations.

- thinking relevant to civil engineering with understanding of consequent responsibilities towards societal, health, safety, legal and cultural issues.
- PO7. Environment and Sustainability: Understand the impact of professional engineering solutions in societal and environmental contexts to conserve suitable environment for sustainable development.
- PO8. Ethics: Apply ethical principles, commit to professional ethics and responsibilities and norms of the civil engineering.
- PO9. Individual and Teamwork: Function effectively as an individual or as a member or leader in diverse teams and in multidisciplinary settings.
- POID Communication: Communicate effectively with engineering community in civil engineering activities.

be able to comprehend and write effective reports, design documentations to make effective presentation with clear instructions.

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- POIL Project Management and Finance: Manage projects in multidisciplinary environment with the skill of handling monetary resources in one's own work.
- PO12 Life-long Learning: Recognize the need for life-long learning in the broadest context of globally changing and challenging environment.

- PSOI. Engineering Graduates will be able to utilize the principles, methods and code of practice to excel in the area of drawing, designing and analysis related to civil engineering system.
- **PSO2.** Engineering Graduates will be able to provide sustainable solution to civil engineering problems.