

2.6 Student Performance and Learning Outcome

2.6.1 Program Specific Outcomes (PSOs)

Summary

Program Specific Outcomes (PSOs) are targeted statements that define the particular skills, knowledge, and abilities students are expected to acquire through a specific academic program. They focus on the specialized competencies relevant to the field of study and guide students in mastering areas crucial for their discipline. PSOs are designed to ensure that graduates can effectively apply their learning to real-world scenarios and meet industry demands. They help in shaping the curriculum and assessment methods, aligning educational goals with professional requirements, and preparing students for success in their chosen careers.


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Program-Specific Outcomes (PSOs)

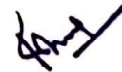
**PSOs are statements that describe what the graduates of a
Specific engineering program should be able to do at the time of
Graduation.**

Department of Computer Science and Engineering

Program Specific Outcomes

PSOs are statements that describe what the graduates of a specific engineering program should be able to do at the time of graduation. There are three PSOs which are as follows:

- The ability to understand the principles of computer hardware and software to analyze, design and develop algorithms for complex and logical problems.
- Enhance programming concepts and professional competencies of students by exercising principles of software engineering to fix various computational problems.
- To implement emerging technologies such as internet of things, cloud computing, artificial intelligence, machine learning etc. to serve the society.



HOD

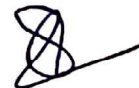
Deptt. of Computer Sci. & Engg.
Institute of Technology & Management
Gwalior

Department of Information Technology

Program Specific Outcomes

PSOs are statements that describe what the graduates of a specific engineering program should be able to do at the time of graduation. There are three PSOs which are as follows:

1. The capacity to comprehend computer architectural concepts in order to analyze, create, and build algorithms for logical and difficult issues.
2. Students can improve their professional competencies and understanding of programming by applying software engineering, Computer Graphics techniques to solve a variety of computational issues.
3. To implement emerging technologies such as Machine Learning, Soft computing, Data Mining, Cloud computing etc. to serve the society.



HOD

Deptt. of Information Technology
Institute of Technology & Management
Gwalior

Department of Civil Engineering

Program Specific Outcomes

PSOs are statements that describe what the graduates of a specific engineering program should be able to do at the time of graduation. There are three PSOs which are as follows:

- The graduate will be able to practice codal provisions like IRC, IS, NBC, CPHEEO manuals for planning & designing of civil infrastructures.
- The graduate will be able to draw and design the various civil Engineering structures by using software such as AUTO-CAD, STAAD-Pro, Google SketchUp etc.
- The graduates will be able to perform effectively as an individual or in a team having acquired leadership skills and manage projects in multidisciplinary environments.



Head
Department of Civil Engineering
Institute of Technology and Management Gwalior

Department of Mechanical Engineering

Vision

To impart quality education in Mechanical Engineering to serve the changing needs of industry and society.

Mission

To impart quality education in the field of Mechanical Engineering by instilling values in students which will motivate our students to serve the needs of the industry and society by its progress and development while maintaining the balance between its social, ecological, and economic aspects.

PEO

1. To prepare students in such a way that they can apply relevant skills of basic science, engineering design, modeling, manufacturing, and management to real-life problems in Industries.
2. To encourage the incumbents for higher studies such that they can impart useful contribution to the field of education, research and modern technology in Mechanical Engineering as well as other allied fields.
3. To prepare students in such a manner that they effectively participate in multicultural and multidisciplinary projects maintaining industrial ethics for the sustainable development of our society.

Programme Specific Outcomes.

1. Graduates will be able to apply mathematical and advanced software tools for design, analysis and fabrication of components used in the field of mechanical engineering.
2. Graduates will be able to understand about engines, machineries, system and develop critical skills to analyze the cause and effect of complicated mechanical processes.
3. Graduates will be able to exhibit team spirit for working in projects as well as pursuing higher studies to contribute in mechanical engineering research and development.


HOD
Dept. of Mechanical Engg.
Institute of Technology & Management
Gurukul

Department of Electronics & Communication Engineering

Program Specific Outcomes

PSOs are statements that describe what the graduates of a specific engineering program should be able to do at the time of graduation. There are three PSOs which are as follows:

- The ability to understand the principles in VLSI, Signal Processing, Communication, Embedded System & Control Engineering.
- To design, implement and test projects using the simulating software and hardware tools.
- To demonstrate the leadership qualities and strive for the betterment of organization, environment and society.



HOD, Electronics & Communication
Institute of Technology & Management
Gwalior