Student Performance and Learning Outcomes

1. PROGRAM OUTCOMES (POs)

PO No.	PROGRAM OUTCOMES (POs)
PO 1	**Engineering knowledge:** Apply the knowledge of mathematics, science, engineering Fundamentals, and an engineering specialization to the solution of complex engineeringproblems.
PO 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.
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 environmentalconsiderations.
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 activitieswith 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 stainability :** 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 team work:** 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 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 ones 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.

2. PROGRAM SPECIFIC OUTCOMES (PSOs)

Civil Engineering

Sr. No.	Program Specific Outcomes (PSO)
PSO 1	Analyze, Design, Construct, Maintain and Operate infrastructure projects.
PSO 2	Assess the environmental impact of various projects and take required measures to curb environmental deterioration.
PSO 3	Able to use latest softwares pertaining to various streams of Civil Engineering.

Computer Engineering

Sr. No.	Program Specific Outcomes (PSO)
PSO 1	**Logic Building:** Participate in Planning, Implementing and evaluating language – specific team programming solutions to specific application in system programming, networking, databases and machine intelligence.
PSO 2	**Application development skill:** Complete individual practical experiences in a variety of programming languages and situations for solving real life problems.
PSO 3	**Competency Development:** Develop the IT competencies using knowledge, skills and disposition to prepare or global workplace.

Electrical Engineering

Sr. No.	Program Specific Outcomes (PSO)
PSO 1	Demonstrate proficiency in use of software & hardware to be required to practice Electrical engineering profession.
PSO 2	Build confidence to participate and succeed in competitive examinations and technical competitions.
PSO 3	Broaden the knowledge in various administrative skill sets, exposure to entrepreneurial setup and society outreach program as a whole.

Electronics & Telecommunication Engineering

Sr. No.	Program Specific Outcomes (PSO)
PSO 1	Analyze and simulate diverse problems in the field of communication.
PSO 2	Design and analyze a system with applications in signal and image processing.
PSO 3	Build, test and evaluate an embedded system with real time constraints.
PSO 4	Design and implement a system towards automatic control in varied engineering problems.

Mechanical Engineering

PSO No.	PROGRAM SPECIFIC OUTCOMES (PSOs)
PSO 1	To apply design and development principles to provide solutions in Machine Design, Production Technology, Thermal Engineering and CAD-CAM domain to meet desired needs.
PSO 2	To apply competency and proficiency in the field of allied engineering.