SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to VTU, Belagavi and approved by AICTE, New Delhi
#14/5, Chikkasandra, Hesaraghatta main road, Bengaluru-560057

DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

PROGRAM EDUCATIONAL OBJECTIVES (PEOs)	
PEO:1	Graduates will be able to successfully gain theoretical and practical knowledge to identify and solve challenges in Information Science and Engineering.
PEO:2	Graduates will begin their career in IT industry, academia, management and research to engage in lifelong learning.
PEO:3	Graduates will exhibit inclination towards the needs of the society through ethics and service.

	PROGRAM OUTCOMES(POs)
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.
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 know assess societal, health, safety, legal and cultural issues and the consequent respo 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.

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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 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 (PSOs)	
PSO:1	Apply mathematical methodologies to solve problem, analyze, data structure with suitable algorithms.
PSO:2	Design and evaluate computer components and information systems using technology with suitable platform.
PSO:3	Build strong skills in learning new programming environments to automate things and simplify real world problems.