POs PEOs PSOs 2018-19

Program Outcomes –BE Program

PO1	**Engineering Knowledge:** Apply knowledge of mathematics and 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.
PO4	**Conduct Investigations of Complex problems:** Using 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 modelling 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 professional engineering practice.
PO7	**Environment and Sustainability:** Understand the impact of 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 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 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 management principles and apply these to one's own work, as

	a member and leader in a team, to manage projects and in multi-disciplinary 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.

CSE Department

Program Educational Objectives(PEO):

PEO1: Engage in solving real life problems by applying the gained technical knowledge and lifelong learning.

PEO2: To Encourage students for higher studies and indulge in research activities.

PEO3: To Excel as a team leader, entrepreneur and a member in multidisciplinary environment.

PEO4: Ability to apply modern tools, skills and techniques to develop software and hardware systems to meet the need of the modern society.

PEO5: Practice moral and ethical values to solve environmental and societal issues in the field of computer science and engineering.

Program Specific Outcomes(PSOs):

PSO1: Ability to analyze, design and develop hardware and software systems in emerging fields of computer science.

PSO2: Acquaint with the contemporary trends associated with industries and research to innovate novel solutions for societal issues.

PSO3: Ability to equip and practice modern computer languages to develop solutions for heterogeneous platforms.

ISE Department

Program Educational Objectives(PEO):

- **PEO1:** Possess theoretical and practical knowledge to identify, scrutinize, formulate and solve challenging problems related to dynamically evolving information science.

- **PEO2:** Inculcate core competency, professionalism, teamwork, and ethics to cater industrial needs and to solve societal problems.

- **PEO3:** Engage in lifelong learning and stay intact to the transformation in technologies and pursue research.

Program Specific Outcomes(PSOs):

- **PSO1:** Exhibit competency and skills in distributed computing, information security, cyber security, data analytics, and machine learning.

- **PSO2:** Able to provide sustainable solution to implement and validate information science projects.

ME Department

Program Educational Objectives(PEO):

- **PEO1:** To design, develop and manage the industrial and social projects by applying modern tools in multidisciplinary environment.

- **PEO2:** To practice lifelong learning, professional ethics and apply engineering principles to achieve sustainable development

- **PEO3:** To demonstrate the leadership qualities and team building to take up innovation and entrepreneurship.

Program Specific Outcomes(PSOs):

- **PSO1**: Solve complex mechanical engineering problems through innovative techniques in competitive environment to design mechanical systems.

- **PSO2:** Apply the knowledge and competence in the field of manufacturing engineering.

- **PSO3:** Apply the knowledge and skills to formulate sustainable solutions in the field of themofluid and energy engineering.

CE Department

Program Educational Objectives(PEO):

- PEO1:Become capable of applying technical & managerial skills and succeed as professional engineers to address socio-environment oriented problems in the field of Civil Engineering.

- PEO2: Possess competency to get employed, imbibe entrepreneurial traits & adopt modern techniques in consultancy services with a sense of professional ethics.

- PEO3: Excel in academic and research career with the aid of higher education and membership of professional bodies.

Program Specific Outcomes(PSOs):

- PSO1:Evaluate different materials required for construction, planning and management of projects and analysis and design of structural elements.

- PSO2:Apply the principles of soil investigation and surveying in planning and design of the transportation facilities.

- PSO3:Adopt systematic approach in natural resources, water management and integrating the application of remote sensing and GIS in the field of Civil Engineering.

ECE Department

Program Educational Objectives(PEO):

- **PEO1:** Applying the concepts of mathematics, science and engineering for solving problems relevant to environment and society.

- **PEO2:** Inculcating lifelong learning skills to adapt to dynamic global economics and technological trends.

- **PEO3:** Inducing ethics, communication skills and leadership qualities with the application of innovative tools and techniques for the betterment of mankind.

Program Specific Outcomes(PSOs):

- **PSO1:** Exhibit competency in embedded system development and VLSI Design.

- **PSO2:** Capability to comprehend the technological advancement in Signal processing and Telecommunication.

Program Outcomes –MBA Program

PO1	Apply knowledge of management theories and practices to solve business problems
PO2	Foster analytical and critical thinking abilities for data-based decision making
PO3	Develop value based leadership abilities
PO4	Understand, analyse and communicate global, economic, legal and ethical aspects of business
PO5	Lead themselves and others in the achievement of organizational goals, contributing effectively to a team environment
PO6	Ability to process and analyse the data using modern tools.
PO7	Apply the concepts of effective communication and engage in lifelong

Program Educational Objectives (PEO):

- **PEO1:** Acquire teamwork, critical thinking, problem-solving skills and achieve leadership position in business organizations.

- **PEO2:** Engage in lifelong learning for personal and professional growth

- **PEO3:** Be an entrepreneur by identifying the opportunities to develop sustainable business.