PROGRAM OUTCOMES, PROGRAM SPECIFIC OUTCOMES FOR ALL PROGRAMS OFFERED BY THE INSTITUTION

PROGRAM OUTCOMES (POs): Common to all branches of Engineering

1	Engineering Knowledge: Apply the knowledge of basic sciences and engineering fundamentals to solve engineering problems.
2	Problem Analysis: Analyze the complex engineering problems and give solutions related to chemical & allied industries.
3	Design/ development of solutions: Identify the chemical engineering problems, design and formulate solutions to solve both industrial & social related problems.
4	Conduct investigations of complex problems: Design & conduct experiments, analyze and interpret the resulting data to solve Chemical Engineering problems.
5	Modern tool usage: Apply appropriate techniques, resources and modern engineering & IT tools for the design, modeling, simulation and analysis studies.
6	The engineer and society: Assess societal, health, safety, legal and cultural issues and their consequent responsibilities relevant to professional engineering practice.
7	Environment and sustainability: Understand the relationship between society, environment and work towards sustainable development.
8	Ethics: Understand their professional and ethical responsibility and enhance their commitment towards best engineering practices.
9	Individual and team work: Function effectively as a member or a leader in diverse teams, and be competent to carry out multidisciplinary tasks.
10	Communication: Communicate effectively in both verbal & non-verbal and able to comprehend & write effective reports.
11	Project management and finance: Understand the engineering and management principles to manage the multidisciplinary projects in whatsoever position they are employed.
12	Life-long learning: Recognize the need of self education and life-long learning process in order to keep abreast with the ongoing developments in the field of engineering.

PROGRAM SPECIFIC OUTCOMES (PSOs)

Department of Biomedical Engineering

1	To design and develop diagnostic and therapeutic devices that reduces physician burnout and enhance the quality of life for the end user by applying fundamentals of biomedical engineering
2	To apply software skills in developing algorithms for solving health care related problems in various fields of medical sectors
3	To adapt to emerging information and communication technologies(ICT) to innovate ideas and solutions for current societal and scientific issues thereby developing indigenous medical instruments that are on par with the existing technology

Department of Civil Engineering

1	Civil Engineering Knowledge: Analyse & design solutions to complex problems by applying fundamentals of sciences and civil engineering in one or more of its major areas such as structural, geo-technical, water resources, transportation and environmental engineering.
2	Conduct investigations of complex civil engineering problems: Use modern techniques and tools to design and conduct experiments, prepare and interpret plans and reports with valid conclusions and recommendations.
3	Civil engineer and society: Develop civil engineering solutions based on societal, health, safety, legal, cultural and environmental considerations for sustainable development.

Department of Computer Science & Engineering

1	Exhibit design and programming skills to build and automate business solutions using cutting edge technologies
2	Strong theoretical foundations leading to excellence and excitement towards research, to provide elegant solution to complex problems
3	Ability to work effectively with various engineering fields as a team to design, build and develop system applications

Department of Mechanical Engineering

1	The student will be able to apply the principles of mathematics, sciences and engineering fundamentals to formulate, review & analyze the problems in the fields of manufacturing and machine design.
2	The student will be able to develop solutions through experimental investigation & simulation using modern software tools & further analyze the data obtained to arrive at valid conclusions in manufacturing & machine design streams.

Department of Agricultural Engineering

1	Gain proficiency in designing agricultural processes, evaluating problems and devising solutions for farm implements, optimizing farm power utilization for sustainable agriculture. Additionally, they will be well-prepared for diverse employment opportunities within the agricultural engineering sector.
2	Contribute significantly to increasing farmer income and actively participate in fostering a circular economy. This will be achieved through the application of technology to enhance sustainable food supply chains and the processing of agricultural and food products.

Department of Artificial Intelligence and Data Science

1	Apply the fundamentals of science, mathematics and engineering knowledge to design, development, formulates and investigate complex engineering problems related to application area in Artificial Intelligence and Data Science.
2	Provide exposure to latest tools and technologies and aware of the impact of professional engineering solution in environmental, societal, professional ethics and able to communicate effectively.
3	To publish research paper and think, innovates in artificial intelligence, machine Learning and Data Science domain

Department of Computer science and Engineering (Cyber Security)

1	Exhibit design and programming skills to build and automate business solutions using cutting edge technologies
2	Strong theoretical foundations leading to excellence and excitement towards research, to provide elegant solution to complex problems