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

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

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| 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 Data Science

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| 1 | Understand, design and analyze computer programs in the areas related to Algorithms, System Software, Web design, big data, Artificial Intelligence, Machine Learning and Networking. |
| 2 | Develop and implement computer science management policies and adequately protect an organization’s critical information and assets. |
| 3 | Exhibit proficiency in analytics for providing solutions to real-world problems in Industry and Research establishments. |