

## PROGRAMME EDUCATIONAL OBJECTIVES

- To introduce the fundamentals of science and engineering concepts essential for a data architect / data scientist.
- To inculcate the knowledge of mathematical foundations and algorithmic principles for effective problem solving.
- To provide knowledge in data science for modern computational data analysis and modeling methodologies.
- To provide the knowledge in artificial intelligence techniques and apply them to develop relevant models and real time products.
- To impart knowledge to analyze, design, test and implement the model required for various applications.
- To hone personality skills, trigger social commitment and inculcate societal responsibilities.
- To train the graduates to have basic interpersonal skills and sense of social responsibility that paves them a way to become good team members and leaders.

## PROGRAM OUTCOMES

PO1	Engineering Knowledge: Ability to apply knowledge of basic mathematics, science and engineering in order to solve Artificial Intelligence and Data Science problems.
PO2	Discipline Knowledge: Ability to apply specific discipline knowledge so as to solve broadly defined Artificial Intelligence and Data Science problems.
PO3	Experiments and Practice: Ability to conduct standard tests and experiments to analyze and interpret the results.
PO4	Engineering Tools: Ability to apply techniques, tools and skills of Artificial Intelligence and Data Science to describe engineering technology activities.
PO5	The Engineer and Society: Express knowledge to analyze societal, safety, health, cultural and legal issues.
PO6	Environment and Sustainability: Demonstrate knowledge and need of sustainable development while understanding the influence of engineering solutions on environment.
PO7	Ethics: Apply ethical principles and commit to professional ethics as well as responsibilities and norms of engineering practice.
PO8	Individual and team work: Function effectively as an individual, and as a member or leader in diverse/multidisciplinary teams.
PO9	Communication: An ability to apply oral, written and graphical communication in both technical and non-technical environments and ability to use appropriate technical literature.
PO10	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the context of technological changes.



<b>PO11</b>	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.
<b>PO12</b>	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.

### PROGRAMME SPECIFIC OUTCOMES

<b>PSO1</b>	The program must demonstrate the understanding of principles to Design, Fabricate, Test, operations and working of basic Artificial Intelligence and Data Science systems and processes.
<b>PSO2</b>	Ability to design, test, evaluate and implement society needed products and utilize in developing or processing such quality products with highest environment safety.

Three handwritten signatures in blue ink are present on the page. The first signature is on the left, the second is in the middle and appears to have the word 'Sham' written above it, and the third is on the right.