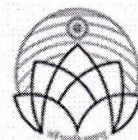# SHRI MADHWA VADIRAJA INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(A Unit of Shri Sode Vadiraja Mutt Education Trust®, Udupi)

Accredited by NBA | Accredited by NAAC with 'A' grade | Affiliated to VTU, Belagavi

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Vishwothama Nagar, Bantakal - 574115, Udupi District, Karnataka.

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1. Program Outcomes (POs) and Program Specific Outcomes (PSOs)

The Program Outcomes (POs) and Program Specific Outcomes (PSOs) Statements of Artificial Intelligence and Data Science is listed as a sample in the below Table 2.6.1a and 2.6.1b respectively.

Table 2.6.1a : Program Outcomes (POs) Statements of Artificial Intelligence and Data Science:

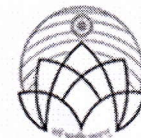| PO No.	Graduate Attribute	Proposed PO Statement
PO1	Engineering knowledge	Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO2	Problem Analysis	Identify, formulate, review research literature, and 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 investigation 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.
PO5	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.
PO6	The engineer and society	Demonstrate the ability of using acquired knowledge to analyze and solve societal issues.
PO7	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.
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, being able to comprehend and write effective reports and design documentation, make

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		effective presentations, and give and receive clear instructions.
PO11	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.
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.

Table 2.6.1b: PSO Statements of Department of Artificial Intelligence and Data Science:

PSO No.	PSO Statements
PSO1	Gain the ability to independently carry out research to solve practical problems in the field of Artificial Intelligence and Data Science.
PSO2	Comprehend the role of Artificial Intelligence and Data Science in various domains like businesses, healthcare, expert systems, etc. for efficient data storage, analysis and visualization.