MANGALDAI COLLEGE (AUTONOMOUS)

Department of Computer Science & IT

M.Sc. in COMPUTER SCIENCE

- ## LEARNING OUTCOMES

The following learning outcomes express the knowledge, skills, and abilities that students should be able to demonstrate through their learning in the M.Sc. in Computer Science programme.

1. Explain key concepts, principles, and applications of Artificial Intelligence and Machine Learning, and identify suitable uses of these technologies.

2. Recognise common cyber security concerns and describe methods and practices used to protect digital information and computer systems.

3. Describe advanced computer networking concepts, network components, communication, and the role of networking technologies.

4. Explain the basic concepts and applications of Natural Language Processing, including how computers process and analyse human language.

5. Interpret the stages and purposes of data science, including data collection, processing, analysis, and the extraction of useful information.

6. Formulate a research or project problem, explore relevant technical approaches, and present findings clearly and systematically.

7. Demonstrate analytical thinking, independent learning, collaboration, and an ability to engage with new developments in Computer Science.

Programme Areas: Artificial Intelligence, Machine Learning, Cyber Security, Advanced Computer Networking, Natural Language Processing, Data Science, Research and Innovation.