



Mahavir Education Trust's
SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE
Chembur, Mumbai - 400 088
UG Program in Electronics and Computer Science
Academic Year: 2023-2024

Unique Course Code: ECC801 Course Name: Robotics

Unique Course Outcome Number	Course Outcome Statement
ECC8011	Identify the major technologies, languages, applications, social, economic and ethical consequences of a robotic manipulator.(Remembering)
ECC8012	Explain methods for describing robotslocations, orientations and movements .(Understanding)
ECC8013	Apply kinematics, and vision system algorithms for a robot.(Applying)
ECC8014	Analyze the kinematics, trajectories for the robot and shape analysis of objects encountered by the robot.(Analyze)
ECC8015	Select various algorithms for robot vision ,task planning and trajectory planning.(Evaluate)
ECC8016	Integrate kinematics, task planning ,trajectory planning and robot vision, using suitable robot languages based on applications to control robots(Creating)



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Unique Course Code: ECC802 Course Name: MEMS

Unique Course Outcome Number	Course Outcome Statement
ECC8021	Describe the fundamentals of MEMS Devices.
ECC8022	Select and describe suitable materials and their properties for MEMS devices
ECC8023	Model the different MEMS sensor and Actuator with Micro Actuation Techniques
ECC8024	Choose a different fabrication process for MEMS devices.
ECC8025	Modal different MEMS devices and their characteristics
ECC8026	Demonstrate the use of semiconductor-based processing modules used in fabrication of a variety of sensors and actuators



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Unique Course Code: ECCDO801 Course Name: Advanced Algorithms

Unique Course Outcome Number	Course Outcome Statement
ECCDO8011	Analyze the running time and space complexity of algorithms
ECCDO8012	Describe, apply and analyze the complexity of divide and conquer, greedy and dynamic programming strategy
ECCDO8013	Identify appropriate data structures and design techniques for different problems
ECCDO8014	Differentiate polynomial and non- deterministic polynomial algorithms
ECCDO8015	Analyze various algorithms
ECCDO8016	Applications of various algorithms for real life problems.



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Unique Course Code: ECCDO8012 Course Name: Natural Language

Processing

Unique Course Outcome Number	Course Outcome Statement
ECCDO80121	Identify Ambiguities of NLP and explain applications of NLP
ECCDO80122	Apply Grammar and Mathematical Rules for NLP
ECCDO80123	Perform Lexical Analysis and pre-processing at Word Level via tokenization, segmentation, lemmatization, stemming and/or stop word removal
ECCDO80124	Analyze syntactic correctness of a lexical or corpus via different models
ECCDO80125	Assess the correctness semantic interpretation of the lexical or corpus given by different models
ECCDO80126	Design basic applications and/or bots using NLP



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Unique Course Number: ECCDO802 Course Name: System Security

Unique Course Outcome Number	Course Outcome Statement
ECCDO8021	Discuss the concept of vulnerabilities, attacks and protection mechanisms.
ECCDO8022	Understand the working of various crypto algorithms.
ECCDO8023	Analyze various controls available for protection against internet attacks.
ECCDO8024	Evaluate different attacks on Open Web Applications and Web services
ECCDO8025	Compare mechanisms used to provide security in different infrastructure and networks
ECCDO8026	Perform security monitoring and testing of system



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Unique Course Number: ECCDO802 Course Name: Advanced Networking
Technologies

Unique Course Outcome Number	Course Outcome Statement
ECCDO8021	Appreciate the need for Wireless networks and study the IEEE 802.11 Standards
ECCDO8022	Comprehend the significance of Asynchronous Transfer Mode (ATM).
ECCDO8023	Analyze the importance of Optical networking
ECCDO8024	Demonstrate knowledge of network design and security and management
ECCDO8025	Understand the concept of multimedia networks..



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Unique Course Number: ELXILO8029 Course Name: Environmental
Management

Unique Course Outcome Number	Course Outcome Statement
ELXILO80291	Remember the Environmental related definition issues.
ELXILO80292	Understand the concept of environmental management, Government planning Responsibility
ELXILO80293	Understand the Global environmental concept
ELXILO80294	Understand ecosystem & interdependence
ELXILO80295	Analyze & understand ISO certification procedure
ELXILO80296	Apply your environment related legislations knowledge individually in your own organization.



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Unique Course Number: ILO8012 Course Name: Finance Management

ILO80121	Understand Indian finance system
ILO80122	Understand the concept of risk return and time value of money
ILO80123	Understand corporate finance and financial ratios
ILO80124	Understand capital budgeting and working capital management
ILO80125	Understand Knowledge about sources of finance & capital structure,
ILO80126	Take investment, finance as well as dividend decisions

Unique Course Number: ILO8021 Course Name: Project Management

ILO80211	Apply selection criteria and select an appropriate project from different options.
ILO80212	Write work break down structure for a project and develop a schedule based on it.
ILO80213	Identify opportunities and threats to the project and decide an approach to deal with them strategically.
ILO80214	Use Earned value technique and determine & predict status of the project.
ILO80215	Capture lessons learned during project phases and document them for future reference