



Mahavir Education Trust's
SHAH & ANCHOR KUTCHHI ENGINEERING COLLEGE
Chembur, Mumbai - 400 088
UG Program in Electronics and Computer Science
Academic Year: 2022-2023

Unique Course Code: ECC601 Course Name: ESRTOS

ECC 6011	Identify and describe various design metrics and challenges in optimization of embedded systems.
ECC 6012	Understand low power modes in embedded cores and select the the components by comparative study.
ECC 6013	Analyze various software issues involved in Real time embedded systems design and provide suitable models.
ECC 6014	Apply concepts of Real Time Operating Systems using C/C++ and implement real time kernel objects using FREE RTOS.
ECC 6015	Apply embedded product design model for system integration and Modern Testing and Debugging tools.
ECC 6016	Select a specific embedded system as a case study and discuss fundamentals of design and development. (comprehension)



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Unique Course Code: ECC603

Course Name: Computer Network

ECC6031	Enumerate the layers of OSI model and TCP/IP model and describe their function.
ECC6032	Identify the characteristics of network devices and media used to design network
ECC6033	Demonstrate the knowledge of networking protocols at various layers of TCP/IP model.
ECC6034	Classify the routing protocols and analyse how to assign the IP addresses for a given network
ECC6035	Design and configure the networks using IP addressing and sub-netting / super-netting schemes.
ECC6036	Explain the functions of Application layer and Presentation layers, their paradigms and Protocols.

Unique Course Code: ECC604

Course Name: Data Warehousing and Mining

ECC6041	Understand Data Warehousing Fundamentals, Dimensionality modelling Principles, ETL techniques and OLAP operations
ECC6042	Build a Data Warehouse using snowflake schema and star scheme
ECC6043	outline the importance of data pre-processing and basics of data mining techniques
ECC6044	Link the concepts of market basket analysis to real world applications
ECC6045	Select appropriate classification and prediction algorithms to various data sets pertaining to real world examples
ECC6046	Apply the concept of clustering to various real world data samples



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Unique Course Code: ECCDO604 Course Name: Electronic Product Design

ECCDO6041	Describe the importance of different customer centric approaches and market availability
ECCDO6042	Apply Idea Segmentation on products with respect to different product development challenges
ECCDO6043	Compare between different type of software and hardware models for a given product
ECCDO6044	Formulate a test plan for given hardware and software specifications
ECCDO6045	Judge a product's correctness based on debugging and testing of the product
ECCDO6046	Design a documentation methodology for the product and make a document for the same

Unique Course Code: ECCDO601

Course Name: Machine Learning

ECCDO6011	To introduce machine learning concepts
ECCDO6012	To develop mathematical concepts required for machine learning algorithms
ECCDO6013	To understand various regression techniques
ECCDO6014	To understand clustering techniques
ECCDO6015	To develop neural network based learning models
ECCDO6016	To understand dimensionality reduction techniques



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Unique Course Code: ECL604 Course Name: LINUX Server Administration

Unique Lab Outcome Number	Lab Outcome Statement
ECL6041	Examine the concept of Open-source technology and basics installation of Linux operating system
ECL6042	Demonstrate various Linux Command Line administration tasks and perform file, user, group and process management tasks
ECL6043	Apply various Linux Command Line utilities to perform storage and network management tasks
ECL6044	Analyze Linux Server administration tasks and configure servers for front and backend services.
ECL6045	Analyze a given problem and apply requisite facets of SHELL programming in order to devise a SHELL script to solve the problem
ECL6046	Evaluate security measures to protect the operating environment and virtualization



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Unique Course Code: ELM601

Course Name: Mini Project 2B

Unique Lab Outcome Number	Lab Outcome Statement
ELM6011	Identify problems based on research needs
ELM6012	Apply Knowledge and skill to solve societal problems in a group.
ELM6013	Draw the proper inferences from available results through theoretical/ experimental/simulations.
ELM6014	Analyze the impact of solutions in societal and environmental context for sustainable development
ELM6015	Use standard norms of engineering practices
ELM6016	Excel in written and oral communication.