



Mahavir Education Trust's
Shah & Anchor Kutchhi Engineering College,
 Chembur, Mumbai 400 088
UG Program in Information Technology

Academic Year 2018-19
Semester - V

Unique Course Number: ITC501		Course : Computer Graphics and Virtual Reality
8.ITC501.1	Explain the embedded system concepts and architecture of embedded systems	
8.ITC501.2	Describe the architecture of 8051 microcontroller and write embedded program for 8051 microcontroller.	
8.ITC501.3	Design the interfacing for 8051 microcontroller.	
8.ITC501.4	Understand the concepts of ARM architecture.	
8.ITC501.5	Demonstrate the open source RTOS and solve the design issues for the same.	
8.ITC501.6	Select elements for an embedded systems tool.	
Unique Course Number: ITL504		Course: IOT mini project lab
8.ITL504.1	Study basic concepts and identify the requirements of real-world problems.	
8.ITL504.2	Installation and implementation of problems using simulator and IDE.	
8.ITL504.3	Study and enhance software and hardware skills	
8.ITL504.4	Design, interface and configure the project.	
8.ITL504.5	Build the project by hardware requirements, coding, emulating and testing.	
8.ITL504.6	Write a report and present the findings of the study conducted in the preferred domain.	
Unique Course Number: ITC502		Course: Internet Programming
4.ITC502.1	Implement interactive web page(s) using HTML, CSS and JavaScript.	
4.ITC502.2	Design a responsive web site using HTML5 and CSS3.	
4.ITC502.3	Demonstrate Rich Internet Application.	
4.ITC502.4	Build Dynamic web site using server side PHP Programming and Database connectivity.	
4.ITC502.5	Describe and differentiate different Web Extensions and Web Services.	
4.ITC502.6	Demonstrate web application using Python web Framework-Django	
Unique Course Number: ITL501		Course: Internet Programming Lab
4.ITL.501.1	Design a basic web site using HTML5 and CSS3 to demonstrate responsive web design.	
4.ITL.501.2	Implement dynamic web pages with validation using JavaScript objects by applying different event handling mechanism.	
4.ITL.501.3	Use AJAX Programming Technique to develop RIA	
4.ITL.501.4	Develop simple web application using server side PHP programming and Database Connectivity using MySQL.	
4.ITL.501.5	Build well-formed XML Document and implement Web Service using Java.	
4.ITL.501.6	Demonstrate simple web application using Python Django Framework.	
Unique Course Number: ITC503		Course: Advanced Data Management Technology
4.ITC503.1	Explain and understand the concept of a transaction and how ACID properties are maintained when concurrent transaction occur in a database	
4.ITC503.2	Measure query costs and design alternate efficient paths for query execution.	
4.ITC503.3	Apply sophisticated access protocols to control access to the database.	
4.ITC503.4	Implement alternate models like Distributed databases and Design applications using advanced models like mobile, spatial databases.	
4.ITC503.5	Organize strategic data in an enterprise and build a data Warehouse.	
4.ITC503.6	Analyze data using OLAP operations so as to take strategic decisions.	
Unique Course Number: ITL503		Course: OLAP Lab
3.ITL503.1	Implement simple query optimizers and design alternate efficient paths for query execution.	
3.ITL503.2	Simulate the working of concurrency protocols, recovery mechanisms in a database	
3.ITL503.3	Design applications using advanced models like mobile, spatial databases.	



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7.ITDLO5015.5	To understand a typical graphics pipeline
7.ITDLO5015.6	To design an application with the principles of virtual reality