

Shah & Anchor Kutchhi Engineering College, Chembur, Mumbai 400 088

UG Program in Information Technology

Academic Year 2019-20

Semester - VII

Unique Course Number: ITC701 Course Name: Enterprise Network Design

Unique CO Number	Course Outcome (CO) Statement
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5.ITC.701.1	To understand and describe the SDN and Openflow
5.ITC.701.2	To identify customer requirements, articulate them and describe
	methodology required for network design
5.ITC.701.3	To understand the modules for a given network based on identified
	customer requirements and use them in network design
5.ITC.701.4	To detail the design considerations and design the remote connectivity for a
	network
5.ITC.701.5	To discuss the enterprise campus design considerations and design the IP
	addressing for a network.
5.ITC.701.6	To articulate the enterprise campus design considerations and select a
	routing protocol for a network.

Unique Course Number: ITC702 Course Name: Infrastructure Security

Unique CO Number	Course Outcome (CO) Statement
5.ITC702.1	Study the concept of vulnerabilities, attacks and protection mechanisms
5.ITC702.2	Understand and examine software vulnerabilities and attacks on databases
	and operating systems
5.ITC702.3	Explain the need for security protocols in the context of wireless
	communication
5.ITC702.4	Apply various security solutions for Web and Cloud infrastructure
5.ITC702.5	Detect and Diagnose different attacks on Open Web Applications and Web
	services
5.ITC702.6	Design appropriate security policies to protect infrastructure components

Course Name: Artificial Intelligence Unique Course Number: ITC703

Unique CO Number	Course Outcome (CO) Statement
7.ITC703.1	Define and Demonstrate knowledge of the building blocks of AI as
	presented in terms of intelligent agents.
7.ITC703.2	Analyze and formalize the problem as a state space, graph, design heuristics and select amongst different search or game based techniques to solve them,. and also design intelligent systems for Game Playing.
7.ITC703.3	Cast the different types of constraint satisfaction problems as search and Develop intelligent algorithms for constraint satisfaction problems.
7.ITC703.4	Attain the capability to represent various real life problem domains using logic based Techniques and infer or devise plan.



Shah & Anchor Kutchhi Engineering College,

Chembur, Mumbai 400 088

UG Program in Information Technology

7.ITC703.5	Represent the problem involving uncertain knowledge in terms of probabilistic statement, and Apply Bayes rule and product rule for inferencing using Bayesian approaches.
7.ITC703.6	Apply concept Natural Language processing to problems leading to understanding of Cognitive computing.

Unique Course Number: ITDLO7032 Course Name: Mobile Application Development

Unique CO Number	Course Outcome (CO) Statement
4.ITDLO7032.1	To describe the android platform, architecture and various services of
	android.
4.ITDLO7032.2	Use Intent, broadcast receivers, and internet services for developing
	android activity.
4.ITDLO7032.3	To identify and investigate various security issues in android platform.
4.ITDLO7032.4	To select various multimedia and location-based service for the android
	app.
4.ITDLO7032.5	
	To design the user interface with the database application.
4.ITDLO7032.6	
	To generate APK files for different android modules.

Unique Course Number: ITDLO7034 Course Name: Software Testing and Quality Assurance

Unique CO Number	Course Outcome (CO) Statement
ITDLO7034.1	To understand various testing methodologies.
ITDLO7034.2	To describe various testing techniques.
ITDLO7034.3	To design test plan documentation.
ITDLO7034.4	To identify and use the automation tools.
ITDLO7034.5	To identify the testing techniques for specialized environment.
ITDLO7034.6	To understand the various software quality management standards.

Unique Course Number: ITDLO7035 Course Name: Soft Computing

Unique CO Number	Course Outcome (CO) Statement
ITDLO7035.1	List the facts and outline the different process carried out in fuzzy logic, ANN and Genetic Algorithms.
ITDLO7035.2	Explain the concepts and meta-cognitive of soft computing.



Shah & Anchor Kutchhi Engineering College, Chembur, Mumbai 400 088

UG Program in Information Technology

ITDLO7035.3	Apply Soft computing techniques the solve character recognition, pattern classification, regression and similar problems.
ITDLO7035.4	Outline facts to identify process/procedures to handle real world problems using soft computing.
ITDLO7035.5	Summarize various techniques of soft computing to defend the best working solutions.
ITDLO7035.6	Design hybrid system to revise the principles of soft computing in various applications.

Unique Course Number: ILO7013 Course Name: Management Information System

Unique CO Number	Course Outcome (CO) Statement
9.ILO7013.1	Explain the importance of information systems and the impact of
	information technology on an organization to transform business
9.ILO7013.2	Identify the principal tools and technologies for storing and accessing
	information in an organization to improve business performance and
	decision making
9.ILO7013.3	Describe ethical issues related to information technology, potential threat
	to the privacy of the data and control measures that organizations can use
	to protect their information resources
9.ILO7013.4	Identify current and emerging technologies and apply them to today's
	businesses
9.ILO7013.5	Describe the use of the Internet and World Wide Web to provide a global
	platform for e-business, business mobility and communications,
	collaboration, and cloud computing
9.ILO7013.6	Explain the types of support that information systems can provide for each
	functional area of the organization

Unique Course Number: ILO7016 Course Name: Cyber Security and Laws

Unique CO Number	Course Outcome (CO) Statement
7.ILO7016.1	Analyze & Classify Different Types of Cybercrime, Tools & Methods used to Conduct Cybercrime & Correlate it to Describe Crimes with Various Types of Cyber Law & Standard Security Compliances.
7.ILO7016.2	Determine Cybercrime or Cyber Offences by Distinguishing types of Attacking Methods & Recognized Attacks on Wireless Devices & Apply Different Aspects of Cyber Law as per by Identification of Indian
7.ILO7016.3	Describe & Counsel various Information Security Concept against Cybercrime related to Organizational Security Policies & Legal E- Documentation with the help of Identity Theft (ID Theft) & Discriminate Criminal Aspects of Cyber Law.

Shah & Anchor Kutchhi Engineering College, Chembur, Mumbai 400 088

UG Program in Information Technology

7.ILO7016.4	Recognize or Ensure Global Perspective on Cybercrime & Evaluate Various factors of Security Challenges posed by Mobile and Wireless Devices and determine hacking methods to explain the concept of cyberspace with the need of Indian IT Act.
7.ILO7016.5	Study & Explain Cybercrime and its offences by using various methods & tools to get the concept of Security and Intellectual Property Aspect inCyber Law and Abstract Amendments of Indian IT Act according to the information Security Compliances.
7.ILO7016.6	List & Assemble various cyber offences on social engineering and emerging trends in mobility and tools like DOS & DDOS attacks and on addition compile legal Framework for electronic data interchange. Optimize support of Indian IT Act based on any Security compliances to compared different standard.

Unique Course Number: ITL701 Course Name: Network Design Lab

Unique CO Number	Course Outcome (CO) Statement
5.ITL701.1	Understand the requirements of an enterprise and outline its major design
	areas.
5.ITL701.2	Identify functional areas to construct high level modules for enterprise
	architecture and analyze them.
5.ITL701.3	Identify the networking devices, prepare a bill of materials and configure
	the devices as per the Core, Access and Distribution layers.
5.ITL701.4	Design the Server Farm for an enterprise network and discuss upgradations
	if needed.
5.ITL701.5	Identify and select the technology for Remote site Connectivity, suitable IP
	addressing plan and routing protocol for an enterprise network.
5.ITL701.6	Test and monitor the enterprise network using a tool.

Unique Course Number: ITL702 Course Name: Advanced Security Lab

Unique CO Number	Course Outcome (CO) Statement
5.ITL702.1	Implement and analyze program and database vulnerabilities Buffer
	overflow and SQL Injection
5.ITL702.2	Explore and analyze different security tools to secure mobile devices, web
	browser, wireless network and router
5.ITL702.3	Explore reconnaissance, attack and forensics tools in Kali Linux.
5.ITL702.4	Learn security of system using personal firewall installation.
5.ITL702.5	Understand AAA using RADIUS.
5.ITL702.6	Understand AAA using TACACS.

Unique Course Number: ITL703 Course Name: Intelligence System Lab

Unique CO Number Course Outcome (CO) Statement
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Shah & Anchor Kutchhi Engineering College, Chembur, Mumbai 400 088

UG Program in Information Technology

7.ITL703.1	Design the building blocks of an Intelligent Agent using PEAS representation.
7.ITL703.2	Analyse and formalize the problem as a state space, graph, design heuristics and select amongst different search or game based techniques to solve them.
7.ITL703.3	Develop intelligent algorithms for constraint satisfaction problems and also design intelligent systems for Game Playing.
7.ITL703.4	Attain the capability to represent various real-life problem domains using logic-based techniques and use this to perform inference or planning.
7.ITL703.5	Formulate and solve problems with uncertain information using Bayesian approaches.
7.ITL703.6	Apply concept Natural Language processing and cognitive computing for creation of domain specific Chatbots.

Unique Course Number: ITL704 Course Name: Android Apps Development Lab

Unique CO Number	Course Outcome (CO) Statement
ITL704.1	Experiment on Integrated Development Environment for Android
	Application Development.
ITL704.2	Design and Implement User Interfaces and Layouts of Android App.
ITL704.3	Use Intents for activity and broadcasting data in Android App
ITL704.4	Design and Implement a Database Application and Content Providers.
ITL704.5	Experiment with Camera and Location Based service.
ITL704.6	Develop Android App with Security features.

Unique Course Number: ITM705 Course Name: Project-I

Unique CO Number	Course Outcome (CO) Statement
ITM705.1	Identify potential research areas in the field of IT
ITM705.2	Conduct a survey of several available literature in the preferred field of study
ITM705.3	Demonstrate an ability to work in teams and manage the conduct of the research study
ITM705.4	Compare and analyse the several existing solutions for research challenge
ITM705.5	Formulate a plan for creating a solution for the research plan identified
ITM705.6	To Document and present the findings of the study conducted in the preferred domain



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