



Sree Chitra Thirunal College of Engineering

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Consolidated Course Outcomes Report

Batch	Sno	Subject	CO	Topic	Bloom's taxonomy level
CS 2K20	1	FORMAL LANGUAGES AND AUTOMATA THEORY	CO1	Classify a given formal language into Regular, Context-Free, Context Sensitive, Recursive or Recursively Enumerable	Applying(P)
			CO2	Design a finite automata for a given regular language by understanding the formal representation of a given regular language as a finite state automaton, regular grammar, regular expression and Myhill-Nerode relation.	Applying(P)
			CO3	Design a Pushdown Automaton and a Context-Free Grammar for a given context-free language.	Applying(P)
			CO4	Design Turing machines as language acceptors or transducers.	Applying(P)
			CO5	Explain the notion of decidability	Understanding(U)
	2	COMPUTER NETWORKS	CO1	Explain the features of computer networks, protocols, and network design models	Understanding(U)
			CO2	Describe the fundamental characteristics of the physical layer and identify the usage in network communication	Applying(P)
			CO3	Explain the design issues of data link layer, link layer protocols, bridges and switches.	Understanding(U)
			CO4	Illustrate wired LAN protocols (IEEE 802.3) and wireless LAN protocols (IEEE 802.11)	Understanding(U)
			CO5	Select appropriate routing algorithms, congestion control techniques, and Quality of Service requirements for a network.	Applying(P)
			CO6	Illustrate the functions and protocols of the network layer, transport layer, and application layer in inter-networking.	Understanding(U)
	3	SYSTEM SOFTWARE	CO1	Explain the basic concepts of system software and the architecture of SIC and SIC/XE	Understanding(U)
			CO2	Develop programs using SIC and SIC/XE instruction set	Applying(P)
			CO3	Develop algorithms for assemblers, linkers, loaders and macro processor	Applying(P)
			CO4	Describe the functions of Text Editors, Debuggers and Device Drivers	Understanding(U)
	4	MICROPROCESSORS AND MICROCONTROLLERS	CO1	Illustrate the architecture, modes of operation and addressing modes of microprocessors	Understanding(U)
			CO2	Develop 8086 assembly language programs.	Applying(P)
			CO3	Demonstrate interrupts, its handling and programming in 8086.	Applying(P)
			CO4	Illustrate how different peripherals (8255,8254,8257) and memory are interfaced with microprocessors.	Understanding(U)
			CO5	Outline features of microcontrollers and develop low level programs	Understanding(U)
	5	MANAGEMENT OF SOFTWARE SYSTEMS	CO1	Demonstrate Traditional and Agile Software Development approaches	Applying(P)
			CO2	Prepare Software Requirement Specification and Software Design for a given problem	Applying(P)
			CO3	Justify the significance of design patterns and licensing terms in software development, prepare testing, maintenance and DevOps strategies for a project	Applying(P)
			CO4	Make use of software project management concepts while planning, estimation, scheduling, tracking and change management of a project, with a traditional/agile framework	Applying(P)
			CO5	Utilize SQA practices, Process Improvement techniques and Technology advancements in cloud based software models and containers & microservices.	Applying(P)
6	SYSTEM SOFTWARE AND MICROPROCESSORS LAB	CO1	Develop 8086 programs and execute it using a microprocessor kit	Applying(P)	
		CO2	Develop 8086 programs and, debug and execute it using MASM assemblers	Applying(P)	
		CO3	Develop and execute programs to interface stepper motor and digital to analog converters with 8086 trainer kit	Applying(P)	

		CO4	Implement and execute different File organization and allocation strategies in OS	Applying(P)
		CO5	Design and implement assemblers, Loaders and macroprocessors	Applying(P)
7	DATABASE MANAGEMENT SYSTEMS LAB	CO1	Design Database Scheme for a real world problem domain using standard design and modelling approach	Understanding(U)
		CO2	Construct queries using SQL for database creation, interaction, modification and updation	Understanding(U)
		CO3	Design and Implement Triggers	Applying(P)
		CO4	Implement Procedures, Functions and Control Structures using PL/SQL	Applying(P)
		CO5	Perform CRUD operations in NO SQL databases	Applying(P)
		CO6	Develop Database Application using Front End Tool and Backend DBMS	Applying(P)
8	DISASTER MANAGEMENT	CO1	Define and use various terminologies in use in disaster management parlance and organise each of these terms in relation to the disaster management cycle	Understanding(U)
		CO2	Distinguish between different hazard types and vulnerability types and do vulnerability assessment	Understanding(U)
		CO3	Identify the components and describe the process of risk assessment, and apply appropriate methodologies to assess risk.	Understanding(U)
		CO4	Explain the core elements and phases of Disaster Risk Management and develop possible measures to reduce disaster risks across sector and community.	Understanding(U)
		CO5	Identify factors that determine the nature of disaster response and discuss the various disaster response actions.	Understanding(U)
		CO6	Explain the various legislations and best practices for disaster management and risk reduction at national and international level.	Understanding(U)