Sree Chitra Thirunal College of Engineering

Pappanamcode Thiruvananthapuram kerala -695018

principal@sctce.ac.in

Consolidated Course Outcomes Report

Batch	Slno	Subject	CO	Topic	Bloom's taxonomy level
AM 2K20	1	MATHEMATICAL FOUNDATIONS FOR MACHINE LEARNING	CO1	Make use of the concepts , rules and results about linear equations,matrix algebra, vector spaces to solve computational problems	Applying(P)
			CO2	Make use of the concepts, eigen values and eigen vectors and orthogonality and diagonalization to solve computational problems	Applying(P)
			CO3	Perform calculus operations on functions of several variables and matrices, including partial derivatives and gradients	Applying(P)
			CO4	Utilize the concepts, rules and results about probability ,rv, additive and multiplicative rules ,conditional probability distributions and Bayes theorem to find solutions of computational problems.	Applying(P)
			CO5	Train Machine learing models using unconstrained and constrained optimization methods.	Applying(P)
	2	COMPUTER ORGANISATION AND ARCHITECTURE	CO1	Recognize and express the relevance of basic components, I/O organization and pipelining schemes in a digital computer	Understanding(U)
			CO2	Explain the types of memory systems and mapping functions used in memory systems	Understanding(U)
			CO3	Demonstrate the control signals required for the execution of a given instruction	Applying(P)
			CO4	Illustrate the design of the Processor Unit	Applying(P)
			CO5	Explain the implementation aspects of arithmetic algorithms in a digital computer	Applying(P)
			CO6	Develop the control logic for a given arithmetic problem	Applying(P)
	3	DATABASE MANAGEMENT SYSTEM	CO1	Summarize fundamental nature and characteristics of database systems	Understanding(U)
			CO2	Model real word scenarios given as informal descriptions, using Entity Relationship diagrams.	Applying(P)
			CO3	Model solutions for efficiently representing and querying data using relational model	Applying(P)
			CO4	Demonstrate the features of indexing and hashing in database applications	Understanding(U)
			CO5	Discuss the aspects of Concurrency Control and Recovery in Database systems and NoSQL databases	Understanding(U)
	4	OPERATING SYSTEM	CO1	Explain the relevance, structure, and functions of Operating Systems in computing devices. (Cognitive knowledge: Understand)	Understanding(U)
			CO2	Compare the concepts of process management and process scheduling mechanisms employed in Operating Systems. (Cognitive knowledge: Understand)	Analyzing(A)
			CO3	Analyse process synchronization in Operating Systems and illustrate process synchronization mechanisms using Mutex Locks, Semaphores, and Monitors (Cognitive knowledge: Understand)	Analyzing(A)
			CO4	Explain any one method for detection, prevention, avoidance and recovery formanaging deadlocks in Operating Systems.	Understanding(U)
			CO5	Explain the memory management algorithms in Operating Systems.	Understanding(U)
			CO6	Explain the security aspects and algorithms for file and storage management in Operating Systems	Understanding(U)
	5	DESIGN AND ENGINEERING	CO1	Explain the different concepts and principles involved in design engineering.	Understanding(U)
			CO2	Apply design thinking while learning and practicing engineering.	Applying(P)
			CO3	Develop innovative, reliable, sustainable and economically viable designs incorporating knowledge in engineering.	Applying(P)
	6	CONSTITUTION OF INDIA	CO1	Explain the background of the present constitution of India and features.	
			CO2	Utilize the fundamental rights and duties	
			CO3	Understand the working of the union executive, parliament and judiciary.	

			CO4	Understand the working of the state executive, legislature and judiciary.	
			CO5	Utilize the special provisions and statutory institutions.	
			CO6	Show national and patriotic spirit as responsible citizens of the country	
	7	**DATABASE MANAGEMENT SYSTEMS LAB**	**CO1**	Design Database Scheme for a real world problem domain using standard design and modelling approach	Applying(P)
			CO2	Construct queries using SQL for database creation, interaction, modification and updation	Applying(P)
			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	Create(C)
	8	**OPERATING SYSTEM LAB**	**CO1**	Illustrate the use of systems calls in Operating Systems. (Cognitive knowledge: Understand)	Understanding(U)
			CO2	CO2 Implement Process Creation and Inter Process Communication in Operating Systems. (Cognitive knowledge: Apply)	Applying(P)
			CO3	CO3 Implement Fist Come First Served, Shortest Job First, Round Robin and Priority- based CPU Scheduling Algorithms. (Cognitive knowledge: Apply)	Applying(P)
			CO4	CO4 Illustrate the performance of First In First Out, Least Recently Used and Least Frequently Used Page Replacement Algorithms. (Cognitive knowledge: Apply)	Applying(P)
			CO5	CO5 Implement modules for Deadlock Detection and Deadlock Avoidance in Operating Systems. (Cognitive knowledge: Apply)	Applying(P)
			CO6	CO6 Implement modules for Storage Management and Disk Scheduling in Operating Systems. (Cognitive knowledge: Apply)	Applying(P)