



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	COMPILER DESIGN	CO1	Explain the phases in compilation process(lexical analysis, syntax analysis, semantic analysis, intermediate code generation, code optimization and code generation) and model a lexical analyzer	Applying(P)
			CO2	Model language syntax using Context Free Grammar and develop parse tree representation using leftmost and rightmost derivations	Applying(P)
			CO3	Compare different types of parsers(Bottom-up and Top-down) and construct parser for a given grammar	Applying(P)
			CO4	Build Syntax Directed Translation for a context free grammar, compare various storage allocation strategies and classify intermediate representations	Applying(P)
			CO5	Illustrate code optimization and code generation techniques in compilation	Applying(P)
	2	COMPUTER GRAPHICS AND IMAGE PROCESSING	CO1	Describe the working principles of graphics devices	Understanding(U)
			CO2	Illustrate line drawing, circle drawing and polygon filling algorithms	Applying(P)
			CO3	Demonstrate geometric representations, transformations on 2D & 3D objects, clipping algorithms and projection algorithms	Applying(P)
			CO4	Summarize visible surface detection methods	Understanding(U)
			CO5	Summarize the concepts of digital image representations, processing and demonstrate pixel relationships	Applying(P)
			CO6	Solve image enhancement and segmentation problems using spatial domain techniques	Applying(P)
	3	ALGORITHM ANALYSIS AND DESIGN	CO1	Analyze any given algorithm and express its time and space complexities in asymptotic notations.	Applying(P)
			CO2	Derive recurrence equations and solve it using Iteration, Recurrence Tree, Substitution and Master's Method to compute time complexity of algorithms.	Applying(P)
			CO3	Illustrate Graph traversal algorithms & applications and Advanced Data structures like AVL trees and Disjoint set operations and analyze their performance	Applying(P)
			CO4	Demonstrate Divide-and-conquer, Greedy Strategy, Dynamic programming, Branch-and Bound and Backtracking algorithm design techniques	Applying(P)
			CO5	Classify a problem as computationally tractable or intractable, and discuss strategies to address intractability	Understanding(U)
	4	INDUSTRIAL ECONOMICS AND FOREIGN TRADE	CO1	Determine the impact of changes in global economic policies on the business opportunities of a firm	Understanding(U)
			CO2	Take appropriate decisions regarding volume of output and to evaluate the social cost of production	Applying(P)
			CO3	Determine the functional requirement of a firm under various competitive conditions	Applying(P)
			CO4	Examine the overall performance of the economy, and the regulation of economic fluctuations and its impact on various sections in the society	Analyzing(A)
			CO5	Determine the impact of changes in global economic policies on the business opportunities of a firm	Understanding(U)
5	PROGRAMMING IN PYTHON	CO1	Develop,Test and Debug Python Programs	Applying(P)	
		CO2	Illustrate uses of Conditional and Iterative statements in Python programs and User defined functions	Applying(P)	
		CO3	Develop Programs by using Python programming constructs such as Lists,Tuples,Sets and Dictionaries	Applying(P)	
		CO4	Develop GUIs for solutions using Python Libraries	Applying(P)	
		CO5	Implement Object Oriented Programs with exception handling	Applying(P)	
		CO6	Develop programs in Python to process data stored in file by utilizing Numpy,Pandas and Matplotlib	Applying(P)	
			CO1	Illustrate the mathematical concepts for data analytics	Applying(P)
			CO2	Explain the basic concepts of data analytics	Understanding(U)
			CO3	Illustrate predictive and descriptive algorithms	Applying(P)

6	DATA ANALYTICS	CO4	Describe the key concepts and applications of big data analytics	Understanding(U)
		CO5	Demonstrate the usage of map reduce paradigm for big data analytics	Applying(P)
		CO6	Use R programming tool to perform data analytics and visualisation	Applying(P)
7	NETWORKING LAB	CO1	Use network related commands and configuration files in Linux Operating System.	Understanding(U)
		CO2	Develop network application programs and protocols.	Applying(P)
		CO3	Analyze network traffic using network monitoring tools.	Applying(P)
		CO4	Design and setup a network and configure different network protocols.	Applying(P)