



Sree Chitra Thirunal College of Engineering

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Consolidated Course Outcomes Report

Batch	Sno	Subject	CO	Topic	Bloom's taxonomy level
AM 2K20	1	CONCEPTS IN NATURAL LANGUAGE PROCESSING	CO1	Compare different language modelling techniques	Understanding(U)
			CO2	Demonstrate the relevance of pre-processing methods on text data	Applying(P)
			CO3	Use of NLP techniques in Text Classification	Applying(P)
			CO4	Explain Information Extraction, Relation Detection, QA Systems and Machine Translation	Understanding(U)
	2	ROBOTICS AND INTELLIGENT SYSTEM	CO1	Understand the concepts of manipulator and mobile robotics.	Understanding(U)
			CO2	Choose the suitable sensors, actuators and control for robot design	Applying(P)
			CO3	Developing kinematic model of mobile robot and understand robotic vision intelligence.	Applying(P)
			CO4	Discover the localization and mapping methods in robotics	Applying(P)
			CO5	Plan the path and navigation of robot by applying artificial intelligence algorithm	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	Explain the problem of scarcity of resources and consumer behaviour, and to evaluate the impact of government policies on the general economic welfare	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	ARTIFICIAL NEURAL NETWORKS TECHNIQUES	CO1	Summarize the basic concepts and the learning rules of ANN. (Cognitive Knowledge Level: Understand)	Understanding(U)
CO2			Utilize the fundamental learning algorithms namely, Mc-Culloch Pitts, Hebb Perceptron and Adaline to solve real world problems.(Cognitive Knowledge Level: Apply)	Applying(P)	
CO3			Implement Back propagation learning algorithm, Generic Radial Basis Function network. (Cognitive Knowledge Level: Apply)	Applying(P)	
CO4			Demonstrate Self Organizing Maps and Adaptive Resonance Theory. (Cognitive Knowledge Level: Understand)	Understanding(U)	
CO5			Implement training algorithms for pattern association. (Cognitive Knowledge Level: Apply)	Applying(P)	
6	NATURAL LANGUAGE PROCESSING LAB	CO1	Apply the concept of natural language processing (NLP) using Natural Language Toolkit	Applying(P)	
		CO2	Construct text corpora with tokenization, Stemming, Lemmatization	Applying(P)	
		CO3	Implement Machine Learning based Text Classification	Applying(P)	
		CO4	Implement a chatbot and a language translator for text data	Applying(P)	

