



## 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	DEEP LEARNING	CO1	Illustrate the basic concepts of neural networks and its practical issues	Applying(P)
			CO2	Outline the standard regularization and optimization techniques for deep neural network	Understanding(U)
			CO3	Implement the foundation layers of CNN (pooling, convolutions)	Applying(P)
			CO4	Implement a sequence model using recurrent neural networks	Applying(P)
			CO5	Use different neural network/deep learning models for practical applications.	Applying(P)
	2	DATA MINING	CO1	Employ the key process of data mining and data warehousing concepts in application domain	Understanding(U)
			CO2	Make use of appropriate preprocessing techniques to convert raw data into suitable format for practical data mining tasks	Applying(P)
			CO3	Illustrate the use of classification and clustering algorithms in various application domains.	Applying(P)
			CO4	comprehend the use of association rule mining techniques	Applying(P)
			CO5	explain advanced data mining concepts and their applications in emerging domains	Understanding(U)
	3	DATA COMPRESSION TECHNIQUES	CO1	Describe the fundamental principles of data compression	Understanding(U)
			CO2	Make use of statistical and dictionary based compression techniques for various applications	Applying(P)
			CO3	Illustrate various image compression standards	Understanding(U)
			CO4	Summarize video compression mechanisms to reduce the redundancy in video	Understanding(U)
			CO5	Use the fundamental principles of digital audio to compress audio data	Understanding(U)
	4	BLOCK CHAIN TECHNOLOGIES	CO1	Illustrate the cryptographic building blocks of blockchain technology	Understanding(U)
			CO2	Explain the fundamental concepts of blockchain technology	Understanding(U)
			CO3	Summarize the classification of consensus algorithms	Understanding(U)
			CO4	Explain the concepts of first decentralized cryptocurrency bitcoin.	Understanding(U)
			CO5	Explain the use of smart contracts and its use cases.	Understanding(U)
			CO6	Develop simple applications using Solidity language on Ethereum platform.	Applying(P)
	5	Programming Paradims	CO1	Explain the criteria for evaluating programming languages and compare Imperative, Functional and Logic programming languages	Understanding(U)
			CO2	Illustrate the characteristics of data types and variables	Applying(P)
			CO3	Comprehend how control flow structures and subprograms help in developing the structure of a program to solve a computational problem	Applying(P)
			CO4	Explain the characteristics of Object-Oriented Programming Languages	Understanding(U)
CO5			Compare concurrency constructs in different programming languages	Understanding(U)	
6	Soft Computing	CO1	Describe soft computing techniques and the basic models of Artificial Neural Network	Understanding(U)	
		CO2	Solve practical problems using neural networks	Applying(P)	
		CO3	Illustrate the operations, model and applications of fuzzy logic	Applying(P)	
		CO4	Illustrate the concepts of Genetic Algorithm	Applying(P)	
		CO5	Describe the concepts of multi-objective optimization models and the need for using hybrid soft computing approaches	Understanding(U)	