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	FOUNDATIONS OF DEEP LEARNING	CO1	Illustrate the basic concepts of neural networks, deep learning and its practical issues	Applying(P)
			CO2	Outline the standard regularization and optimization techniques for the effective training of deep neural networks.	Understanding(U)
			CO3	Build convolutional Neural Network (CNN) models for different use cases.	Applying(P)
			CO4	Apply the concepts of Recurrent Neural Network (RNN), Long Short Term Memory(LSTM), Gated Recurrent Unit (GRU).	Applying(P)
			CO5	Explain the concepts of auto encoder, generative models	Understanding(U)
	2	INDUSTRIAL SAFETY ENGINEERING	CO1	Describe the theories of accident causation and preventive measures of industrial accidents.	Understanding(U)
			CO3	Explain different issues in construction industries	Understanding(U)
			CO4	Describe various hazards associated with different machines and mechanical material handling.	Understanding(U)
			CO5	Utilise different hazard identification tools in different industries with the knowledge of different types of chemical hazards	Applying(P)
			CO2	Explain about personal protective equipment, its selection, safety performance & indicators and importance of housekeeping.	Understanding(U)
	3	WEB PROGRAMMING	CO1	Explain the fundamentals of WWW and Use of HyperText Markup Language (HTML) for authoring web pages	Understanding(U)
			CO2	Write and visually format responsive, interactive web pages using CSS and JavaScript (JS)	Applying(P)
			CO3	Develop dynamic web applications using PHP and perform MySQL database operations	Applying(P)
			CO4	Explain the importance of object exchange formats using JSON and the MVC based web application development frameworks	Understanding(U)
	4	FUNDAMENTALS OF BUSINESS ANALYTICS	CO1	Explain the concept of Business Analytics process and the role of Business Analytics in decision making.	Understanding(U)
			CO2	Use appropriate methods for solving problems in Descriptive analytics	Applying(P)
			CO3	Use appropriate methods to solve problems using Predictive analytics techniques.	Applying(P)
			CO4	Use appropriate Forecasting techniques to inference analyze business trends.	Applying(P)
			CO5	Formulate Linear Programming model for solving a problem.	Applying(P)
	5	OCCUPATIONAL HEALTH AND GENERAL SAFETY	CO1	Identify occupational diseases and toxic hazards in the workplace	Understanding(U)
			CO2	Explain various types of occupational hazards and their control	Understanding(U)
			CO3	Outline the different types of pollution, their effects on living organisms and the environment, and their control/mitigation measures.	Understanding(U)
	6	DEEP LEARNING LAB	CO1	Implement advanced machine learning concepts using python	Applying(P)
			CO2	Apply basic data pre-processing and tuning techniques	Applying(P)
			CO3	Experiment behaviour of neural networks and CNN on datasets	Applying(P)
			CO4	Design and Implement sequence modelling schemes	Applying(P)
			CO5	Implement auto encoders on standard datasets and analyse the performance.	Applying(P)
	7	SEMINAR	CO1	Identify relevant information, defining and explaining topics under discussion from technological and engineering literature.	
			CO2	Present a slide show demonstrating depth of understanding in a compelling, well-structured, and logical sequence.	
			CO3	Prepare organized report detailing the literature surveyed employing elements of technical writing and critical thinking.	

1

2			CO4	Raise critical questions with appropriate questions so that students will demonstrate their understanding of discussions and spark further discussion.	
	8	**PROJECT PHASE I**	CO1	Model and solve real world problems by applying knowledge across domains	Applying(P)
			CO2	Develop products, processes or technologies for sustainable and socially relevant applications	Applying(P)
			CO3	Function effectively as an individual and as a leader in diverse teams and to comprehend and execute designated tasks	Applying(P)
			CO4	Plan and execute tasks utilizing available resources within timelines, following ethical and professional norms	Applying(P)
			CO5	Identify technology/research gaps and propose innovative/creative solutions	Applying(P)
			CO6	Organize and communicate technical and scientific findings effectively in written and oral forms	Applying(P)
	9	**SUSTAINABLE ENERGY PROCESS**	CO1	Understand the need for developing sustainable energy processes	Understanding(U)
			CO2	Assess the technology behind sustainable energy processes, its merits and demerits	Evaluate(E)
			CO3	Explain the various processes involved in the conversion of biomass, wind, solar, tidal energy and geothermal energy into useful energy	Understanding(U)
			CO4	Analyze the working of fuel cells and energy storage routes	Analyzing(A)