Sree Chitra Thirunal College of Engineering

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Consolidated Course Outcomes Report

Batch	Slno	Subject	CO	Topic	Bloom's taxonomy level
MA 2K20	1	AUTO ELECTRICAL AND ELECTRONICS	CO1	Distinguish the different types of batteries, its working principle, construction and applications	Understanding(U)
			CO2	Categorize the charging systems and starting systems in vehicles	Understanding(U)
			CO3	Identify the ignition system and lighting systems used in vehicles	Understanding(U)
			CO4	Understand the different types of sensors used in vehicles	Understanding(U)
			CO5	Illustrate and identify the engine management system and vehicle management systems	Understanding(U)
	2	MANUFACTURING PROCESS	CO1	Explain the basic concepts and applications of the Casting process	Understanding(U)
			CO2	Explain different types of metal joining processes (Welding, soldering and brazing)	Understanding(U)
			CO3	Discuss different metal forming processes (Forging, Rolling and Extrusion)	Understanding(U)
			CO4	Explain the principle and characteristics of various Non-conventional machining processes	Understanding(U)
			CO5	Describe advanced manufacturing technologies and green manufacturing concepts	Understanding(U)
	3	VEHICLE DYNAMICS	CO1	To understand vehicle system dynamics	Understanding(U)
			CO2	Evaluate the driving/braking resistance and their influences on dynamics of vehicle	Applying(P)
			CO3	Identify and analyze the dynamics systems such as suspension systems, body vibrations, steering mechanisms.	Applying(P)
			CO4	To analyze and solve engineering problems related to vehicle dynamics	Applying(P)
			CO5	Comparing and identifying the different types of control systems in automobiles	Understanding(U)
	4	AUTO TRANSMISSION	CO1	Understand and analyse the types of clutch and gearbox used in the automobiles	
			CO2	Understand the basics of epicyclical gearbox and the propeller shaft	
			CO3	Illustrate the working of epicyclical and hydrodynamic transmission system	
			CO4	Understand the working of a hydrostatic transmission and Continuously Varying Transmission	
			CO5	Understand the components and working of automatic transmissions used in the present-day vehicles	
	5	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	Analyzing(A)
			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	Analyzing(A)
	6	DISASTER MANAGEMENT	CO1	I am able to Define and use various terminologies in use in disaster management parlance and organise each of these terms in relation to the disaster management cycle	Understanding(U)
			CO2	I am able to Distinguish between different hazard types and vulnerability types and do vulnerability assessment	Understanding(U)
			CO3	I am able to Identify the components and describe the process of risk assessment, and apply appropriate methodologies to assess risk	Understanding(U)

			CO4	I am able to Explain the core elements and phases of Disaster Risk Management and develop possible measures to reduce disaster risks across sector and community	Applying(P)
			CO5	I am able to Identify factors that determine the nature of disaster response and discuss the various disaster response actions	Understanding(U)
			CO6	I am able to Explain the various legislations and best practices for disaster management and risk reduction at national and international level	Understanding(U)
	7	**PRODUCTION ENGINEERING LAB**	**CO1**	Identify the machining operation involved for a component	Understanding(U)
			CO2	Illustrate the manufacturing sequence for developing a component	Understanding(U)
			CO3	Apply and optimise different criteria for machining of a component	Applying(P)
			CO4	Develop and analyse a CNC programme using simulation software	Create(C)
			CO5	Enhance research capabilities by carrying out different research oriented experiments	Analyzing(A)
	8	**THERMAL ENGINEERING LAB-I**	**CO1**	Measure thermo-physical properties of solid, liquid, and gaseous fuels.	Analyzing(A)
			CO2	Identify various systems and subsystems of Diesel and petrol engines.	Analyzing(A)
			CO3	Analyze the performance characteristics of internal combustion engines.	Analyzing(A)
			CO4	Investigate the emission characteristics of exhaust gases from IC Engines.	Analyzing(A)
			CO5	Interpret the performance characteristics of air compressors / blowers.	Analyzing(A)