



Sree Chitra Thirunal College of Engineering

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Consolidated Course Outcomes Report

Batch	Sno	Subject	CO	Topic	Bloom's taxonomy level
MA 2K20	1	CONSTITUTION OF INDIA	CO1	Explain the background of the present constitution of India and features.	Understanding(U)
			CO2	Utilize the fundamental rights and duties.	Understanding(U)
			CO3	Understand the working of the union executive, parliament and judiciary.	Understanding(U)
			CO4	Understand the working of the state executive, legislature and judiciary.	
			CO5	Utilize the special provisions and statutory institutions.	Understanding(U)
			CO6	Show national and patriotic spirit as responsible citizens of the country	Understanding(U)
	2	PROFESSIONAL ETHICS	CO1	Be aware about the core values that shape the ethical behavior of a professional	Understanding(U)
			CO2	Adopt a good character and follow an ethical life	Create(C)
			CO3	Be capable for the role and responsibility in technological development by keeping personal ethics and legal ethics.	Create(C)
			CO4	Solve moral and ethical problems through exploration and assessment by established experiments.	Applying(P)
			CO5	Impart the knowledge of human values and social values to contemporary ethical values and global issues.	Applying(P)
	3	ENGINEERING THERMODYNAMICS	CO1	Basic concepts and laws of thermodynamics.	Understanding(U)
			CO2	First law analysis of open and closed systems.	Understanding(U),Applying(P),Analyzing(A)
			CO3	Entropy and availability changes associated with different processes.	Applying(P)
			CO4	Different equations of state.	Understanding(U),Applying(P)
			CO5	Change in properties of pure substances during phase change processes.	Applying(P)
			CO6	Properties of ideal gas mixtures.	Evaluate(E)
	4	MECHANICS OF SOLIDS	CO1	Determine the stresses, strains and displacements of structures by tensorial and graphical approaches	Applying(P)
			CO2	Analyse the strength of materials using stress-strain relationships for structural and thermal loading	Applying(P)
			CO3	Perform basic design of shafts subjected to torsional loading and analyse beams subjected to bending moments	Applying(P)
			CO4	Determine the deformation of structures subjected to various loading conditions using strain energy methods	Applying(P)
CO5			Analyse column buckling and appreciate the theories of failures and its relevance in engineering design	Applying(P)	
			CO1	Understand various types of IC engines and components of the engine and its functions.	

5	AUTO POWERPLANT	CO2	Understand the Engine cooling and lubrication systems	
		CO3	Gain knowledge on the fuel system components and their working in an SI Engine	
		CO4	Gain knowledge on the fuel system components and their working in a CI Engine	
		CO5	Evaluate and test the performance of an IC engine based on different parameters	
6	MATERIALS TESTING LAB	CO1	To understand the basic concepts of analysis of circular shafts subjected to torsion	Understanding(U)
		CO2	To understand the behavior of engineering component subjected to cyclic loading and failure concepts	Understanding(U)
		CO3	Evaluate the strength of ductile and brittle materials subjected to compressive, tensile shear and bending forces	Evaluate(E)
		CO5	To understand a suitable material for applications in the field of design and manufacturing	Understanding(U)
		CO4	To evaluate the microstructural morphology of ductile materials and its fracture modes (ductile/brittle fracture) during tension test	Evaluate(E)
7	VEHICLE SYSTEMS LAB	CO1	To study about hand tools, special purpose tools, and their uses in automobile maintenance workshop	Applying(P)
		CO2	Rectifying and trouble shooting in various system in automobiles Disassembling and inspection of various components of automobiles	Applying(P)
		CO3	Utilize one's ability as an individual or in a team for the effective communication, practical skill and document design.	Applying(P)
8	PROBABILITY, STATISTICS AND NUMERICAL METHODS	CO1	Explain discrete and continuous random variables and different distributions	Understanding(U)
		CO2	apply the density function of the distribution to find the probability of the random variables	Applying(P)
		CO3	Apply characteristics of a population based on attributes of samples drawn from the population for statistical inferences	Applying(P)
		CO4	Evaluate definite integrals and perform interpolation on given numerical data by standard numerical techniques	Applying(P)
		CO5	Solve the algebraic equations, system of linear equations and ordinary differential equations using numerical methods	Applying(P)