



# Sree Chitra Thirunal College of Engineering

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## Consolidated Course Outcomes Report

Batch	S/no	Subject	CO	Topic	Bloom's taxonomy level
MA 2K20	1	MECHANICS OF MACHINERY	CO1	Understand the kinematics of planar mechanisms and describe the principles of different types of brakes and clutches.	Understanding(U)
			CO2	Define cam terminologies and apply kinematic principles to sketch a cam profile for a specified follower motion.	Applying(P)
			CO3	Illustrate different types of gears and solve terminologies of gears and velocity of gears in a gear train.	Applying(P)
			CO4	Understanding on the Turning Moment Diagrams and use of the Flywheels in various machines and Demonstrate the concepts of static and dynamic balancing to rotating and reciprocating machine parts and analyse them for required balance.	Analyzing(A)
			CO5	Build the basics of single degree and multi degree of freedom vibrations and their measurements.	Applying(P)
	2	ADVANCED IC ENGINES	CO1	Understand the modern SI and CI engine combustion technologies.	Understanding(U)
			CO2	Understand the basics of dual fuel engines and non-conventional engines	Understanding(U)
			CO3	Understand the concept and working of Lean-burn engines	Understanding(U)
			CO4	Understand the working principle and operation of stratified charge engines	Understanding(U)
			CO5	Understand the basic principles, types and operation of LTC concepts and strategies.	Understanding(U)
	3	NON DESTRUCTIVE TESTING	CO1	Have a basic knowledge of surface NDT which enables to carry out various inspections in accordance with the established procedures	Understanding(U),Remembering(R)
			CO2	The students will be able to differentiate various defect types and select the appropriate NDT methods for the specimen	Applying(P),Understanding(U),Remembering(R)
			CO3	Calibrate the instrument and evaluate the component for imperfections.	Understanding(U),Applying(P),Analyzing(A)
			CO4	Have a basic knowledge of ultrasonic testing which enables them to perform inspection of samples	Remembering(R),Understanding(U)
			CO5	Have a complete theoretical and practical understanding of the radiographic testing, interpretation and evaluation.	Remembering(R),Understanding(U),Analyzing(A)
	4	COMPUTER AIDED AND DESIGN ANALYSIS LAB	CO1	Gain working knowledge in Computer Aided Design and modelling procedures.	
			CO2	Gain knowledge in creating solid machinery parts	
			CO3	Gain knowledge in assembling machine elements	
			CO4	Gain working knowledge in Finite Element Analysis.	
			CO5	Solve simple structural, heat and fluid flow problems using standard software	
5	ELECTRICAL SYSTEMS LAB	CO3	Understand the operation of four quadrant chopper dc motor drive	Understanding(U)	
		CO1	Obtain the performance characteristics of DC and AC motors	Applying(P)	

		<b>CO2</b>	Predetermine the efficiency and voltage regulation of single phase transformer	Applying(P)
<b>6</b>	<b>MANAGEMENT FOR ENGINEERS</b>	<b>CO1</b>	Explain characteristics of management in contemporary context	Understanding(U)
		<b>CO2</b>	functions of management	Understanding(U)
		<b>CO3</b>	productivity analysis and decision making	Analyzing(A)
		<b>CO4</b>	evaluate and develop a project schedule	Evaluate(E)
		<b>CO5</b>	create business plan and introduce entrepreneurship	Create(C)