VI SEM Course Outcomes		
Subject:		
J	Discuss the terminologies and fundamental concepts associated with Finite Eler	nent
CO1	Method	
CO2	Solve the problems by using variational and weighted residual formulations.	
CO3	Formulate for the shape functions for various types of elements	
	Formulate stiffness matrices and load vector for various types of 1D and 2D prol	blems
CO4	and calculate stress and strains.	
CO5	Apply the Finite element method to solve heat transfer and fluid flow problems	
Subject:	Computer Integrated Manufacturing Code: 15ME62	
	Demonstrate the concepts of machines, mechanisms and related terminologies.	
	Determine the mobility (number of degrees-of-freedom) and enumerate rigid lin	ks
CO1:	and types of joints within mechanisms.	
	Analyze the velocity and acceleration of mechanisms using analytical and graph	ical
CO2:	methods.	
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CO3:	Illustrate the gear mechanism classification and associated concepts.	
CO4:	Summarize the importance over trains and relate to their practical applications	
	Summarize the importance gear trains and relate to their practical applications. Understand various cam and follower mechanism, their classification and cam	
CO5:	profiles based on the prescribed follower motion.	
CO3.	promes based on the presented follower motion.	
Subject:	Heat and Mass Transfer Code: 15ME63	
	Define basic laws of heat transfer and apply the modes of heat transfer to formul	ate
CO1	and solve steady state conduction heat transfer problems.	
'	Solve the heat transfer problems involving critical thickness of insulation, variable	ole
CO2	thermal conductivity and fins.	
CO3	Analyze transient heat transfer problems for finite, semi-infinite and infinite soli	ds.
CO4	Explain boundary layer concept and solve free convection heat transfer problems	S.
	Apply the dimensional analysis to solve forced convection heat transfer problem	s and
CO5	analyze radiation heat transfer problems.	
	Apply the heat transfer basics to solveheat exchanger problems and explain the	
CO6	Apply the heat transfer basics to solveheat exchanger problems and explain the concept of condensation and boiling of liquids.	
	concept of condensation and boiling of liquids.	
Subject:	concept of condensation and boiling of liquids. Design of machine Elements-11 Code: 15ME64	
	concept of condensation and boiling of liquids. Design of machine Elements-11 Code: 15ME64 Analyse the bending stress variation in different applications of curved beams.	
Subject: CO1	concept of condensation and boiling of liquids. Design of machine Elements-11 Code: 15ME64 Analyse the bending stress variation in different applications of curved beams. Determine the pressure variation in thick cylinders due to internal, external and	
Subject:	concept of condensation and boiling of liquids. Design of machine Elements-11 Code: 15ME64 Analyse the bending stress variation in different applications of curved beams. Determine the pressure variation in thick cylinders due to internal, external and contact Pressures.	
Subject: CO1	concept of condensation and boiling of liquids. Design of machine Elements-11 Code: 15ME64 Analyse the bending stress variation in different applications of curved beams. Determine the pressure variation in thick cylinders due to internal, external and contact Pressures. Design flexible machine elements like belt, rope and chain drives and power	
Subject: CO1	concept of condensation and boiling of liquids. Design of machine Elements-11 Code: 15ME64 Analyse the bending stress variation in different applications of curved beams. Determine the pressure variation in thick cylinders due to internal, external and contact Pressures.	

CO5	Apply the principles of lubrication in design of journal and anti friction bearings.
CO6	Classify and design the gears for dynamic and wear loads.
Subject	t:Automotive Engineering Code: 15ME655
CO1	To identify the different parts of an automobile and it's working.
CO2	To understand the working of transmission and braking systems
_	Interpret the model and apply the results to resolve critical issues in a real world
CO3	environment.
CO4	To learn various types of fuels and injection systems
	To know the cause of automobile emissions ,its effects on environment and methods
CO5	to
Subject	t:Industrial Safety Code: 15ME662
CO1	Understand the basic safety terms
CO2	Identify the hazards around the work environment and industries.
	Use the safe measures while performing work in and around the work area of
CO3	the available laboratories
CO4	Able to recognize the sign boards and its application.
	Able to demonstrate the portable extinguishers used for different class of
CO5	fires.
CO6	Able to understand and report the case studies from various references