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	DEPARTMENT	OF MECHANICAL ENGINEERING	
	YEAR: II nd	SEMESTER: Ist COURSE OUTCOMES(R20)	
S.No	COURSE CODE: R2021011	COURSE NAME:VECTOR CALCULUS FOURIER TRANSFORMS and PDE (M-III)	
	CO1: Interpret the physical meani	ng of different operators such as gradient, curl and divergence (L5)	
	CO2: Estimate the work done again	inst a field, circulation and flux using vector calculus (L5)	
	CO3: Apply the Laplace transform	n for solving differential equations (L3)	
1	CO4: Find or compute the Fourier	series of periodic signals (L3)	
	CO5: Know and be able to apply integral expressions for the forwards and inverse Fourier transform to a range of non-periodic waveforms (L3)		
	CO6: Identify solution methods for	or partial differential equations that model physical processes (L3)	
	COURSE CODE: R2021031	COURSE NAME, MECHANICS OF SOLIDS	
		COURSE NAME: MECHANICS OF SOLIDS	
	CO1 : Model & Analyze the behavior of basic structural members subjected to various loading and support conditions based on principles of equilibrium.		
	CO2 : Understand the apply the concept of stress and strain to analyze and design structural members and		
	machine parts under axial, shear and bending loads, moment and torsional moment.		
_	CO3 : Students will learn all the methods to analyze beams, columns, frames for normal, shear, and torsion stresses and to solve deflection problems in preparation for the design of such structural components.		
2		and draw correct and complete shear and bending moment diagrams	
	for beams.	and draw correct and comprete shear and sonaling moment diagrams	
	CO4: Students attain a deeper understanding of the loads, stresses, and strains acting on a structure and		
	their relations in the elastic behavior		
	CO5: Design and analysis of Industrial components like pressure vessels.		
		COURSE NAME: FLUID MECHANICS & HYDRAULIC	
	COURSE CODE: R2021032	MACHINES	
	CO1: The basic concepts of fluid		
	CO2: The mechanics of fluids in static and dynamic conditions.		
3	CO3: Boundary layer theory, flow separation and dimensional analysis.		
	CO4: Hydrodynamic forces of jet on vanes in different positions.		
	CO5: Working Principles and performance evaluation of hydraulic pump and turbines.		
	COURSE CODE: R2021033	COURSE NAME: PRODUCTION TECHNOLOGY	
	CO1: Able to design the patterns and core boxes for metal casting processesCO2: Able to design the gating system for different metallic components		
4	CO3: Know the different types of manufacturing processes		
	CO4: Be able to use forging, extrusion processes		
	CO5: Learn about the different types of welding processes used for special fabrication.		
	COS. Learn about the unificient types of weiting processes used for special fabrication.		

	COURSE CODE: R2021034	COURSE NAME: KINEMATICS OF MACHINERY	
	CO1: Contrive a mechanism for a given plane motion with single degree of freedom.		
	CO2: Suggest and analyze a mechanism for a given straight line motion and automobile steering motion		
	CO3: Analyze the motion (velocity and acceleration) of a plane mechanism.		
5	CO4: Suggest and analyze mechanisms for a prescribed intermittent motion like opening and closing of IC engine valves etc.		
	CO5: Select a power transmission system for a given application and analyze motion of different transmission systems		
	*	system for a given application and analyze motion of different	
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	transmission systems	COURSE NAME: COMPUTER AIDED ENGINEERING	
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	transmission systems COURSE CODE: R2021035	COURSE NAME: COMPUTER AIDED ENGINEERING	
	transmission systems COURSE CODE: R2021035 CO1: Student get exposed on work	COURSE NAME: COMPUTER AIDED ENGINEERING DRAWING PRACTICE	

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