





DEPARTMENT OF MECHANICAL ENGINEERING				
	YEAR: II nd S	EMESTER: IInd COURSE OUTCOMES(R20)		
S.No	COURSE CODE: R2022031	COURSE NAME: MATERIALS SCIENCE & METALLURGY		
1	CO1: Understand the crystalline structure of different metals and study the stability of phases in different alloy systems.			
	CO2: Study the behavior of ferrous and non ferrous metals and alloys and their application in different domains			
	CO3: Able to understand the effect of heat treatment, addition of alloying elements on properties of ferrous metals.			
	CO4: Grasp the methods of making of metal powders and applications of powder metallurgy			
	CO5: Comprehend the properties and applications of ceramic, composites and other advanced methods.			
	COURSE CODE: R2022011	COURSE NAME: COMPLEX VARIABLES AND STATISTICAL METHODS		
	CO1: Apply Cauchy-Riemann equations to complex functions in order to determine whether a given continuous function is analytic (L3)			
	CO2: Find the differentiation and integration of complex functions used in engineering problems (L5)			
2	CO3: Make use of the Cauchy residue theorem to evaluate certain integrals (L3)			
	CO4: Apply discrete and continuous probability distributions (L3)			
	CO5: Design the components of	CO5: Design the components of a classical hypothesis test (L6)		
	CO6: Infer the statistical inferential methods based on small and large sampling tests (L4)			
	COURSE CODE: R2022032	COURSE NAME: DYNAMICS OF MACHINERY		
3	CO1: To compute the frictional losses and transmission in clutches, brakes and dynamometers			
	CO2: To determine the effect of gyroscopic couple in motor vehicles, ships and aeroplanes			
	CO3: To analyze the forces in four bar and slider crank mechanisms and design a fly wheel			
	CO4: To determine the rotary unbalanced mass in reciprocating equipment			
	CO5: To determine the unbalanced forces and couples in reciprocating and radial engines			
	CO6: To determine the natural frequencies of discrete systems undergoing longitudinal, torsional and transverse vibrations.			
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	COURSE CODE: R2022033	COURSE NAME: THERMAL ENGINEERING - I		
	CO1: Derive the actual cycle from fuel-air cycle and air- standard cycle for all practical applications.			
	CO2: Explain working principle and various components of IC engine			
4	CO3: Explain combustion phenomenon of CI and SI engines and their impact on engine variables.			
7	CO4: Analyze the performance of an IC engine based on the performance parameters.			
	CO5: Explain the cycles and systems of a gas turbine and determine the efficiency of gas turbine.			
	CO6: Explain the applications and working principle of rockets and jet propulsion.			

	COURSE CODE: R2022034	COURSE NAME: INDUSTRIAL ENGINEERING AND MANAGEMENT	
	CO1: Design and conduct experiments, analyse, interpret data and synthesize valid conclusions		
	CO2: Design a system, component, or process, and synthesize solutions to achieve desired needs		
5	CO3: Use the techniques, skills, and modern engineering tools necessary for engineering practice with appropriate considerations for public health and safety, cultural, societal, and environmental constraints.		
	CO4: Function effectively within multi-disciplinary teams and understand the fundamental precepts of effective project management		
	COURSE CODE: R2022036	COURSE NAME: MACHINE DRAWING PRACTICE	
6	CO1: Draw and represent standard dimensions of different mechanical fasteners and joints and Couplings.		
	CO2: Draw different types of bearings showing different components.		
	CO3: Assemble components of a machine part and draw the sectional assembly drawing showing the dimensions of all the components of the assembly as per bill of materials		
	CO4: Select and represent fits and geometrical form of different mating parts in assembly drawings.		
	CO5: To prepare manufacturing drawings indicating fits, tolerances, surface finish and surface treatment requirements.		

HOD PRINCIPAL