Sree Chitra Thirunal College of Engineering

Pappanamcode Thiruvananthapuram kerala –695018

principal@sctce.ac.in

Consolidated Course Outcomes Report

Batch	Slno	Subject	CO	Topic	Bloom's taxonomy level
ME 2K20 A	1	Fluid Machinery	CO1	Students will be able to understand and define the principles and working of Hydraulic Machines.	Understanding(U)
			CO2	Students will be able to understand the hydrodynamic forces on various types of vanes using velocity triangles and to calculate the performance characteristics of various hydraulic turbines and pumps	Understanding(U)
			CO3	able to select /design a turbine and pump based on the given requirement	Applying(P)
			CO4	able to understand and define the principles and working of different types of air compressors and Gas turbines	Understanding(U)
			CO5	able to calculate the performance characteristics of various types of air compressors and gas turbines and to understand the methods to improve its performance	Applying(P)
			CO6	understand the working of air compressor and gas turbine based on the given requirement	Understanding(U)
	2	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)
	3	ENGINEERING THERMODYNAMICS	CO1	Understand basic concepts and laws of thermodynamics	Understanding(U)
			CO2	Conduct first law analysis of open and closed system	Analyzing(A),Applying(P)
			CO3	Determine entropy and availability changes associated with different process	Evaluate(E)
			CO4	Understand the application and limitations of different equation of state	Understanding(U)
			CO5	Determine changes in properties of pure substances during phase change processes	Applying(P)
			CO6	Evaluate properties of ideal gas mixtures	Evaluate(E)
	4	MANUFACTURING PROCESS	CO1	To Explain the basics of casting and patterns, types of casting and applications	Understanding(U)
			CO2	Understand welding processes according to welding principle and material.	Understanding(U)
			CO3	Explain rolling processes	Understanding(U)
			CO4	Describe pressing, forging and wire drawing processes.	Understanding(U)
			CO5	Explain locating and clamping methods, Press tool and die cutting operations	Understanding(U)
	5	MACHINE TOOLS LAB-I	CO1	Apply the principles of lathework, drilling, shaping and welding in practical situations	Applying(P)
			CO2	Prepare a model using lathe, shaper, drilling machine and welding machine	Applying(P)
			CO3	Document the model preparation	Understanding(U)
	6	PROFESSIONAL ETHICS	CO1	Understand the core values that shape the ethical behaviour of a professional.	Understanding(U)
			CO2	Develop a good character and follow an ethical life.	Applying(P)
			CO3	Explain the role and responsibility in technological development by keeping personal ethics and legal ethics.	Understanding(U)

			CO4	Solve moral and ethical problems through exploration and assessment by established experiments.	Applying(P)
			CO5	Apply the knowledge of human values and social values to contemporary ethical values and global issues.	Applying(P)
2	7	**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.	Understanding(U)
			CO5	Utilize the special provisions and statutory institutions.	Understanding(U)
			CO6	Show national and patriotic spirit as responsible citizens of the country	Understanding(U)