



SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY(A)
DEPARTMENT OF MECHANICAL ENGINEERING
COURSE OUTCOMES

2023-24 IV B.TECH I SEM

CO NUMBER	COURSE OUTCOME(CO)STATEMENT -AT THE END OF THE COURSE ,THE STUDENTS WILL BE ABLE TO	BLOOMS TAXONOMY
Unconventional Machining Processes (C411)		
C411.1	Understand the concepts of modern machining processes	Understand
C411.2	Sketch and select the process parameters of USM which will effect the MRR	Evaluate
C411.3	Apply the principles and procedure of electro chemical and chemical machining processes	Apply
C411.4	Apply the principles and procedure of thermal metal removal processes	Apply
C411.5	Compare EBM & LBM along with process parameters	Analyze
Production Planning and Control (C412)		
C412.1	To understand the different types of production systems and the internal organization of production planning and control	Understand
C412.2	To estimate forecasts in the manufacturing and service sectors using selected quantitative and qualitative techniques	Apply
C412.3	To understands the importance and function of inventory and to be able to apply for its control and management	Apply
C412.4	To apply routing procedures and differentiate schedule and loading and interpret scheduling policies and aggregate planning	Analyze
C412.5	To understand dispatching procedure and applications of computers in production planning and control	Apply
Refrigeration & Air-Conditioning (C413)		
C413.1	Demonstrate the fundamental principle of RAC	Apply
C413.2	Examine the performance of VCR system and cryogenics	Analyze
C413.3	Describe refrigerants ,vapor absorption system and steam jet refrigeration system	Understand
C413.4	Analyzethe cooling and heating loads in an Air Conditioning systems	Analyze
C413.5	Identify Air Conditioning system components	Understand
Environmental Management(C414)		
C414.1	Calculate the water demand and design period of hydraulic structure	Apply
C414.2	Identify the water source and select proper intake structure	Analyze
C414.3	Characterization of water properties&its standards with reference to IS	Analyze
C414.4	Design the appropriate treatment methods for water to be treated selection of suitable disinfection treatment method for miscellaneous treatment	Create
C414.5	Selection of suitable distribution systems & layouts	Analyze
Disaster Management(C415)		
C415.1	Knowledge about disaster management cycle and types of disaster	Understand
C415.2	Knowing man made disaster and their management along with case study methods	Remember
C415.3	Knowledge about risk and vulnerability for different aspects	Remember
C415.4	Understanding the role of technology in disaster mangement	Understand
C415.5	Describing multi sectional issues,education and community prepardness	Remember

Universal Human Values: Understanding Harmony C416)		
C416.1	Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence	Understand
C416.2	Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence	Understand
C416.3	Strengthening of self-reflection	Understand
C416.4	Development of commitment and courage to act	Understand
C416.5	Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work	Understand
Mechatronics Lab (C417)		
C417.1	Demonstrate the Characteristics of LVDT	Apply
C417.2	Measure load, displacement and temperature using analogue and digital sensors	Understand
C417.3	Develop PLC programs for control of traffic lights, water level, lifts and conveyor belts	Apply
C417.4	Simulate simple programmes using Matlab	Apply
C417.5	Simulate and analyze PID controllers for a physical system using MATLAB	Analyze
Summer internship(C418)		
C418.1	Learn and adopt the engineer's role and responsibilities with ethics	Apply
C418.2	Get exposure to the industrial environment for professional activities	Apply
C418.3	Get possible opportunities to learn, understand and sharpen the technical skills to technical advancement	Apply
C418.4	Develop managerial skills required for professional career	Create
C418.5	Attain skill for writing technical report and prepare poster for presentation	Create


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