



SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY(A)
Department of Mechanical Engineering

COURSE OUTCOMES

Academic year-2024-2025

Year/sem- IV-I (R20)

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	Understand the different types of production systems and the internal organization of production planning and control	Understand
C412.2	Estimate forecasts in the manufacturing and service sectors using selected quantitative and qualitative techniques	Apply
C412.3	Understands the importance and function of inventory and to be able to apply for its control and management	Apply
C412.4	Apply routing procedures and differentiate schedule and loading and interpret scheduling policies and aggregate planning	Analyze
C412.5	Understand dispatching procedure and applications of computers in production planning and control	Apply
Additive Manufacturing (C413)		
C413.1	Interpret the principles of prototyping, classification of RP processes and liquid-based RP systems.	Apply
C413.2	Describe different types of solid-based RP systems.	Understand
C413.3	Describe different powder-based RP systems.	Understand
C413.4	Analyze and apply various rapid tooling techniques.	Analyze
C413.5	Interpret different types of data formats and explore the applications of AM processes in various fields.	Apply
Environmental Management (C414)		
C414.1	Acquire knowledge about Energy resources and generation of electricity & Oil pollution	Remember
C414.2	Acquire knowledge about Impact of agriculture on environment and people & soil erosion	Remember
C414.3	Acquire knowledge about Water Management	Understand
C414.4	Acquire knowledge about Atmospheric Pollution	Remember
C414.5	Acquire knowledge about Management of natural hazards	Understand
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	Understand
C415.3	Knowledge about Risk and Vulnerability for different aspects	Remember

C415.4	Understanding the role of technology in disaster management.	Understand
C415.5	Describing Multi-sectional Issues, Education and Community Preparedness	Remember
Universal Human Values: Understanding Harmony (C416)		
C416.1	Your ability to Development of a holistic perspective based on self-exploration about themselves (human being), family, society and nature/existence	Remember, Understand
C416.2	Your ability to Understanding (or developing clarity) of the harmony in the human being, family, society and nature/existence	Apply
C416.3	Your ability to Strengthening of self-reflection	Analyze
C416.4	Your ability to development of commitment and courage to act.	Evaluate
C416.5	Your ability to Distinguish between ethical and unethical practices, and start working out the strategy to actualize a harmonious environment wherever they work	Create
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


 COORDINATOR


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