



**SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**COURSE OUTCOMES**  
**2022-23 III B.TECH I SEM**

CO NUMBER	COURSE OUTCOME(CO)STATEMENT –AT THE END OF THE COURSE ,THE STUDENTS WILL BE ABLE TO	BLOOMS TAXONOMY
<b>Thermal Engineering-II(C311)</b>		
C311.1	Recognize the Rankine cycle analysis and working of different types of boilers and its mountings	Understand
C311.2	Distinguish the different steam nozzle performances and problem analysis and steam turbines and its performance parameters	Apply
C311.3	Differentiate the working of reaction turbines and its performance parameters and steam condenser	Analyze
C311.4	Differentiate the working of reciprocating and rotary air compressors and its performance parameters	Analyze
C311.5	Differentiate the working of centrifugal and axial flow compressors and its performance parameters and steam condenser	Analyze
<b>Design of Machine Members-I(C312)</b>		
C312.1	Select suitable materials, tolerances and fits in critical design applications	Apply
C312.2	Understand stresses and utilize design data hand book and design the elements for strength, stiffness and fatigue.	Understand
C312.3	Apply the design procedure to engineering problems, including the consideration of technical and manufacturing constraints for Riveted and welded joints, Cotter joints, Knuckle joints, Keys	Apply
C312.4	Apply the design procedure for shafts and shaft couplings	Analyze
C312.5	Apply the design procedure for springs	Analyze
<b>Machining_Machine Tools &amp; Metrology(C313)</b>		
C313.1	Inspection of engineering parts with various precision instruments	Analyze
C313.2	The methods of measurement of displacement, speed, acceleration, vibration, stress and strain, force, torque and power.	Understand
C313.3	Design of part, tolerances and fits Principles of measuring instruments and gauges and their uses	Understand
C313.4	Evaluation and inspection of surface roughness, measurement of angles and Tapers	Apply
C313.5	Inspection of spur gear and thread elements and Screw thread measurement	Apply
<b>Operations Research(C314)</b>		
C314.1	Apply the basics of operations research and linear programming problems	Apply
C314.2	Apply knowledge in solving problems of transportation, assignment and sequencing	Apply
C314.3	Judge the replacement and game theories and apply the knowledge to solve	Evaluate

C318.4	To help students acquire behavioural skills for their personal and professional life.	Apply
C318.5	To respond appropriately in different socio-cultural and professional contexts..	Apply
<b>Professional Ethics and Human Values(C319)</b>		
C319.1	To understand the concepts of human values.	Understand
C319.2	To gain knowledge about the principles of engineering ethics.	Understand
C319.3	To interpret engineering as social experimentation.	Understand
C319.4	To understand engineers' responsibility for safety and risk	Understand
C319.5	To gain knowledge about the engineers' rights and responsibilities.	Understand
<b>Community service project(C3110)</b>		
C3110.1	Describe the abstract and information of the project	Understand
C3110.2	Identify the time duration and cost required to develop the project	Understand
C3110.3	Implement and test the project which is useful to the society	Evaluate
C3110.4	Describe the summary of the project and identify the impact of the project in the society	Evaluate
C3110.5	Demonstrate the project individual and in a group	Apply

  
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