

SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOMES
2021-22 IV R TECH I SEM

2021-22 IV B.TECH I SEM	51.00146
CO COURSE OUTCOME(CO)STATEMENT –AT THE END OF THE COURSE, THE NUMBER STUDENTS WILL BE ABLE TO	BLOOMS TAXONOMY
MECHATRONICS(C411)	
C411.1 Interpret the knowledge of mechatronics systems	Apply
C411.2 Recognize the Solid state electronic devices	Understand
C411.3 Recognize the Hydraulic and pneumatic actuating systems	Understand
C411.4 Interpret the knowledge of Digital electronics and systems	Apply
C411.5 Distinguish the System and interfacing and data acquisition	Analyze
C411.6 Examine the Dynamic models and analogies	Analyze
CAD/CAM (C412)	
C412.1 Implement the basic fundamentals of CAD & CAM.	Apply
Describe the mathematical basis in the technique of representation of	Understand
C412.2 parametric curves, wireframe, surfaces & solid modeling and can visualize	
the components	
Evaloin the difference between NC's and CNC's and he can also know the	Understand
methods involved in part programming.	
C412.4 Examine the use of GT and CAPP for the production development	Analyze
vi vicatho importance of CAOC at different contact and non contact	Understand
inspection methods to improve the quality control	
C412.6 Implement the various elements and their activities in the CIM systems	Apply
FINITE ELEMENT METHODS (C413)	4
C413.1 Explain the concepts behind Variational methods and weighted residual	Understand
methods in FEM	
C413.2 Select the proper element type, element length, Stiffness matrix, Interpolation function and Boundary conditions	Evaluate
C413.3 Distinguish the application and characteristics of FEA elements such as	Analyze
Trusses and beams.	
C413.4 Solve two dimensional stress analysis using constant strain triangle	Apply
C413.5 Identify the higher order iso parametric elements, Implement the finite	Apply
element analysis for 2D four noded element	
C413.6 Solve dynamic and steady state heat transfer problems using FEM	Apply
POWER PLANT ENGINEERING (C414)	
C414.1 Explain power generation in steam power plants	Understand
C414.2 Explain plant layout and various systems in Diesel power plant and Gas turbine plant	Understand
C414.3 Explain various aspects like power generation, classification of dams, plant	Understand
layout and plant auxiliaries	
C414.4 Explain various types of reactors in Nuclear power plants	Understand
C414.5 Explain combined operations of different power plants and power plant	Understand
CTIT.5 Explain combined operations of attracting power plants	

1 control systems	Apply
instrumentation and control systems 114.6 Explain demands, loads and calculate various costs for solving the given	
114.6 Explain demands, loads and care	
productili.	Apply
	Understand
ADDITIVE MANOTAL ADDITIVE MANOTAL ATTEMPT AND ARTOL AN	Analyze
Differentiate the powder based rapid	Apply
prototyping systems.	Analyze
1 - Hellore S	Evaluate
ALE & Dietinghish the lable Program for Sultable of	
415.6 Select the appropriate ANCED MATERIALS	Understand
ADVAINCED ADVAIN	Understand
ADVANCED Management of	Apply
2416.2 Illustrate the polymer-surfacturing methods	Analyze
C416.2 Illustrate the polymer composites C416.3 Demonstrate the different manufacturing methods C416.4 Analyze the macro mechanical analysis of lamina C416.4 Analyze the macro memory alloys	Understand
2416.4 Analyze the macro mechanical analysis of	Analyze
CA16 5 Classify FGW and Start into	
CA16 6 Distinguish the Trans	Apply
CADICIAN CAD&CAM.	Understand
CAD/CAM L/AD/CAM L/AD	
parametric curves, wire frame, surfaces a some some components C417.3 Explain the difference between NC's and CNC's and he can also know the can be can also know the can be can also know the can be can also know the can also kn	e Understand
CA17.3 Explain the difference between NC's and Cite 5	
Methods involved in party of the production development	Analyze
C417.4 Examine the use of G1 and CA17 to the CIM systems	Apply
, and alements and their	Apply
C417.5 Implement the variety fundamentals of CAD&CAM.	
C417.5 Implement the various elements and CAD&CAM. C417.6 Implement the basic fundamentals of CAD&CAM. MECHATRONICS LAB (C418)	Apply
C418.1 Demonstarte the Characteristics of LVDT C418.2 Measure load, displacement and temperature using analogue and digital	Understan
C418.2 Measure load, displacement and temperature sensors C418.3 Develop PLC programs for control of traffic lights, water level, lifts and	Apply
C418.3 Develop PLC programs for control of datas	Apply
conveyor belts. C418.4 Simulate simple programmes using MATLAB C418.5 Simulate and analyze PID controllers for a physical system using MATLAB	Analyze
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