

SRI VASAVI INSTITUTE OF ENGINEERING & TECHNOLOGY DEPARTMENT OF MECHANICAL ENGINEERING

COURSE OUTCOMES 2020-21 III B.TECH II SEM

5	COURSE OUTCOME(CO)STATEMENT -AT THE END OF THE COOKS	BLOOMS TAXONOMY
JMBER	METROLOGY(C321)	
	Explain the principles of Limits & Fits and Analyze various types of Fits	Analyze
2321.1	Explain the principles of Limits & Fits and Analyze van	Understand
C321.2	Explain the principles of linear and angular measurement	Understand
2321.3	Describe the concepts and principles of optical measuring instruments and interferometry	
C321.4	interferometry Use the concept of surface roughness measurement and explain the working	Apply
	of Comparators. Demonstrate the principles of Gear teeth and screw thread measurement	Apply
	Test the flatness and machine tool alignment	Analyze
	INSTRUMENTATION & CONTROL SYSTEMS(C322)	
0222 1	Explain the Principle of measurement and measurement of displacement	Understand
322.1	Explain the Principle of measurement and pressure.	Analyze
C322.2	Analyze measurement of parameters like temperature and pressure.	Analyze
	Analyze measurement of parameters like speed, pressure	Apply
C322.4	Describe method of usage of resistance strain gauge	Analyze
C322.5	Analyze measurement of parameters like humidity, flow velocity	Remember
C322.6	Explain elements of control systems & its classification	
	REFRIGERATION & AIR-CONDITIONING(C323)	Apply
C323.1	Demonstrate the fundamental principle of RAC	
0222.2	Examine the performance of VCR system	Analyze
C222 2	Discuss the properties, applications and environmental issues of different	Understand
	refrigerants and VCR components Differentiate the working principles of Vapor Absorption refrigeration Street refrigeration systems	Analyze
C323.4	System and Steam jet refrigeration systems system and Steam jet refrigeration systems	Evaluate
C323.5	Appraise the cooling and heating loads in all All Conditions	Understand
C323.6	Identify Air Conditioning system components	0

	HEAT TRANSFER(C324)	
	basic laws of heat transfer and temperature distribution in	Understand
llide		Analyze
324.2 Analyse the fin	ns and unsteady heat conduction	Apply
Understand and	d Apply Dimensional analysis on heat transfer	Analyze
Solve the prob	elems related to free and forced convection exchangers by LMTD and NTU methods along with	Analyze
II inderstanding	Of the priority	Understand
Understand th	e phenomenon of thermal radiation.	
	INDUSTRIAL ROBOTICS(C325)	Understand
C325.1 Identify vario	us robot configuration and components.	Analyze
	Draumatic types of locomotion devices.	
C325.3 Solve the kin	nematic problems and Establish relation among and another and another among and another among and another among and another among a second among another amo	Apply Apply
C325.4 Execute dyna	amic analysis for simple serial kinematic chang	Analyze
C325.5 Organize traj	ectory planning for a manipulator by avoiding obstacles. Opriate actuators and sensors for a robot based on speci	
application		
	HEAT TRANSFER LAB (C326)	Understand
C326.1 Understand	the basic laws of heat transfer and temperature distribution in	Analyze
solids C326.2 Analyse the	fins and unsteady heat conduction	Apply
C326.3 Understand	and Apply Dimensional analysis on heat transfer	Analyze
0226.4	thems related to free and forced convection	Analyze
C326.5 Analyse hea	at exchangers by LMTD and NTO methods along with	Understand
C326.6 Understand	the phenomenon of thermal radiation.	
	METROLOGY & INSTRUMENTATION LAB(C327)	C
C327.1 Understand	the principles of Limits & Fits and Analyze various types o	Analyze
Fits	Laboration of linear and angular measurement	Understand
Understand	d the concepts and principles of optical measuring instrumen	ts Apply

	and and working of	
C327.4	Understand the concept of surface roughness measurement and working of Comparators.	Apply
	Understand the principles of Gear teeth and screw thread measurement	Apply
C327.6	Understand the concept of measurement of flatness and machine tool alignment test	Apply
	COMPUTATIONAL FLUID DYNAMICS LAB(C328)	
C328.1	Apply the basic fundamentals transcendential equations, simultaneous algebraic equations, ordinary differential equation	Apply
C328.2	Describe the mathematical basis in differentiation and Integration, partial differential equation	Understand
C328.3	Explain the difference Tri-diagonal matrix using Thomas Algorithm	Understand
C328.4	Distinguish steady state conduction	Analyze
C328.5	Solve Lumped heat transfer, convective heat transfer	Apply
C328.6	Solve Radiation heat transfer	Apply
	PROFESSIONAL ETHICS & HUMAN VALUES(C329)	
C329.1	To understand the concepts of human values.	Understand
C329.2	To understand the principles of harmony	Understand
C329.3	To sain knowledge about the principles of engineering ethics & interpret	Understand
C329.4	To understand engineers' responsibility for safety and risk	Understand
C329.5	To gain knowledge about the engineers' rights and responsibilities.	
	To know the ethical aspects our cultural issues	Understand

