O.P.Code: 20ME0307

R20

H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR (AUTONOMOUS)

B.Tech II Year II Semester Regular & Supplementary Examinations June-2024 CAD/CAM

(Mechanical Engineering)

		(Mechanical Engineering)	***	*	
Tin	ıe:	3 Hours (Anguar all Five Units 5 v 12 = 60 Marks)	Max.	Marl	ks: 60
(Answer all Five Units $5 \times 12 = 60$ Marks) UNIT-I					
1	a	Explain about homogeneous transformations.	CO1	L2	6M
	b	Explain the CAD Tools.	CO1	L2	6M
		OR			
2		Explain briefly about 2D and 3D transformations.	CO1	L2	12M
		UNIT-II			
3		Describe briefly the following methods of surface modeling with a few	CO2	L1	12M
		application examples			
		(i) B-spline surface (ii) Bezier surface			
		OR			
4		Explain the Constructive Solid Geometry (CSG) method to create	CO2	L2	12M
		models.			
		UNIT-III			
5	a	Illustrate about NC motion control systems.	CO3	L2	6M
	b	Explain various applications of NC and CNC system.	CO3	L2	6M
		OR			
6		With a neat sketch describe the canned cycles.	CO3	L3	12M
		UNIT-IV			
7		Define FMS. Explain about material handling system with a neat sketch.	CO5	L2	12M
		OR			
8	a	Discuss the terminology used in quality control.	CO5	L2	6M
	b	Define the term CAQC and explain how it is implemented in production	CO5	L2	6M
		systems.			
UNIT-V					
9		Elucidate Capacity planning and MRP-I in detail.	CO5	L5	12M
		OR			
10		Explain detail about computer integrated production planning and	CO6	L2	12M
		Capacity planning.			
*** END ***					