

**PANIPAT INSTITUTE OF ENGINEERING AND TECHNOLOGY
PANIPAT**

DEPARTMENT OF MECHANICAL ENGINEERING

LESSON PLAN

Name: - VIRENDER UPNEJA
Branch/Semester: -7th Sem.

Subject Name: - CAD
Subject Code:-MEP-401A

Sr. No.	Lecture No.	Topics To Be Covered	Planned On	Mode
1	L1	Introduction to CAD/CAM and subject overvier	15-09-2021	PPT
2	L2	Introduction, Traditional product cycle	16-09-2021	PPT
3	L3	Introduction to CIM Basic of Geometric & Solid modeling,	17-09-2021	PPT
4	L4	customer relationship management, product lifecycle management,	22-09-2021	PPT
5	L5	Introduction, basic structure of computer	23-09-2021	PPT
6	L6	Part families, Part classification and coding	24-09-2021	PPT
7	L7	input, storage, processing, output, control, microcomputer, minicomputer, mainframes, supercomputer,	29-09-2021	PPT
8	L8	input out device, LAN, MAN, WAN	30-09-2021	PPT
9	L9	product flow analysis, Machine cell Design	1-10-2021	PPT
10	L10	GT and its Advantages	06-10-2021	PPT
11	L11	Introduction, Transformation of points & line, 2-D rotation, Reflection, Scaling and combined transformation		

12	L12	Introduction, system software, application software, General CAD process	7-10-2021	PPT,WHITE BOARD
13	L13	Homogeneous coordinates, 3-D scaling, shearing, rotation, reflection and translation, combined transformations	8-10-2021	PPT,WHITE BOARD
14	L14	selection of CAD system, database management system, data structure, database types	13-10-2021	PPT,WHITE BOARD
15	L15	Orthographic and perspective projections	14-10-2021	PPT
16	L16	Algebraic and geometric forms, tangent & normal blending functions, reparametrization	20-10-2021	PPT
17	L17	-----DO---	21-10-2021	PPT,WHITE BOARD
18	L18	Straight line, conics, cubic splines, bezier curves and B-spline curves	22-10-2021	PPT
19	L19	function of database management system, advantages of DBMS, database coordinate system	27-10-2021	PPT
20	L20	--Do--		
21	L21	Algebraic and geometric forms, tangent & twist vectors	28-10-2021	PPT
22	L22	Normal blending function	29-10-2021	PPT,WHITE BOARD
23	L23	Reparametrization, Sixteen point form, four Curve form.	03-11-2021	PPT,WHITE BOARD
24	L24	-----Do---	17-11-2021	PPT,WHITE BOARD
27	L25	Plane surface, ruled surface.	18-11-2021	PPT,WHITE BOARD
28	L26	Surface of revolution, tabulated cylinder Bi-cubic surface.	19-11-2021	PPT
29	L27	Bezier surface, B-spline surface	24-11-2021	PPT
30	L28	- DO--	25-11-2021	PPT,WHITE BOARD

				E BOARD
31	L29	Solid models and representation scheme B-rep & CSG.	26-11-2021	PPT,WHITE BOARD
32	L30	Sweep representation ,Cell decomposition.	01-12-2021	PPT,WHITE BOARD
33	L31	Spatial occupancy enumeration	02-12-2021	PPT
34	L32	--DO--		
35	L33	Introduction, fixed, programmable and flexible automation	03-12-2021	PPT
36	L34	--DO--	08-12-2021	PPT
37	L35	Types of NC systems, MCU & other components	09-12-2021	PPT
38	L36	Co-ordinate system, NC manual part programming.	10-12-2021	PPT,WHITE BOARD
39	L38	--DO--	15-12-2021	PPT,WHITE BOARD
40	L39	G & M codes, part program for simple parts	22-12-2021	PPT,WHITE BOARD
41	L40	---- DO---	23-12-2021	PPT,WHITE BOARD
42	L41	Computer assisted part programming	24-12-2021	PPT
43	L42	Introduction, FMS component, Types of FMS, FMS layout,	24-12-2021	PPT,WHITE BOARD

(COURSE INCHARGE)
A.P(Mr.Virender Upneja)