LESSON PLAN FOR - COMPUTER AIDED DRAFTING (SESSION :- FEB - JUNE 2023)

MECHANICAL ENGINEERING (SEMESTER - 6)

S.NO.	MONTH	WEEK	DATE	DESCRIPTION OF PRACTICAL / JOB	REMARKS
1	Feb	3rd	16	Introduction to CAD: - Advantages and applications, setting the drawing environment: Limits, Grid, Snap, Axis, Units, Ortho, Coordinates ON, OFF Units and Color.	
		4th	23,25		
		5th	***	- 2D Drawing entities - Point - Line - Arc - circle, Ellipse, Polygon, and Trace. Object Selection using Object Snap (OSNAP).- Editing	
2	March	1st	2,4	commands: Selection of entities by different methods - copy, Move, Scale,Rotate, Fillet, Chamfer, Mirror, Array-Polar, Rectangular. Measure, Divide, and Erase. - Drawing Display Methods: Zoom, Pan, and View.	
		2nd	9	- Adding Texts and Dimensions: Text, Dimension-linear, continued, angular	
		3rd	16,18	Pedit commands. Working on multiple layers Layer concepts in CAD- Various options with layer command - Hatch command -	
		4th	23,25	Creating line types library and user made library. - Preparing the schematic drawing of a workshop building in one	
		5th	***	***	
3	April	1st, 2nd	6	Drawing 2D figure of complex shape- Extruding it into a 3D drawing- Understanding 3D Co-ordinate values, Creating and viewing a drawing in 3D.- Rotating the drawings- Meshing 3D drawing.- Turning a 3D into 2D Ortho Graphic projection	
		3rd	13		
		4th	20		
		5th	27,29	Understanding model space and paper space.- Drawing and working in UCS. - UCS icon, 3D editing-Union, Subtraction, 3 D	
4	May	1st	4,6	Orbit. - Basic 3D entities command, Box, Cylinder, Cone,Chamfer, Revolve	
		2nd	11	House Test	
		3rd	18,20	2D drawings- Connecting rod, Gear tooth profile - Brake assembly, Single plate clutch	
		4th	25,27	3D drawings- Universal coupling- Protected type flange coupling - Meshing gears	
		5th	***	***	
5	June	1st	1,3	CAD Setup and Presentation - Developing CAD slides and presenting it. - Configuring the CAD package with the following settings.	
		2nd	8	- One User&1SM SVGA monitor - Microsoft Serial Mouse at COM - DMP 52 plotter at COM2	

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