

Lesson Planning

Name of Faculty

: Sh.Sunny Brar

Dicipline

: 4th Sem. Mechanical Engg.

Subject

: CAD

Lesson Plan duration

:15 weeks

Work load (Lecture/Practical) per week (in hours): 4Lab

Week	Theory		Teacher sign
		Topic(Including assignment/test)	
1		UNIT I Computer Aided Design (CAD) Introduction to Computer Aided Drafting (2D) commands of any one software (AutoCAD, ProE, Solid works, Unigraphics etc.)	
		Introduction to CAD Software, Installing CAD Software	
		Familiarization with software, coordinate system (Absolute, Relative and Polar)	
2		Snap, grid, and ortho mode and setting of units and layout, Exercises on preparing drawings of some machine elements using point, line	
		Exercises on preparing drawings of some machine elements using arc, circle, ellipse	
3		Editing commands – scale, erase, copy, stretch, lengthen and explode	
		Dimensioning and placing text in drawing area	
4		Sectioning and hatching,	
		Inquiry for different parameters of drawing entity	
5		Create layers within a drawing	
		Some exercise on simple drawings.	
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		UNIT II Prepare assembly drawing of the following using Drafting Software (2D) Plummer Block	
7		Stepped pulley, V-belt pulley	
		Machine tool Holder	
8		Wall Bracket	
		UNIT III Isometric Drawing by CAD using any part modeling Software (3D) Introduction	
9		Part modelling: Datum Plane	
10		Constraint, sketch, dimensioning, Extrude, revolve	
		Sweep, blend, protrusion, extrusion, Rib, shell, hole, round, chamfer, copy, mirror	
11		Assembly, align, orient, Flanged coupling	
		Bearing Block	
12		Bushed bearing	
		UNIT IV Computer Aided Manufacturing (CAM) Introduction to CAM software, Steps in using CAM software	
13		Generate part program using CAM software (MasterCAM/EdgeCAM or any other CAM software) for turning jobs	
		Generate part program using CAM software (MasterCAM/EdgeCAM or any other CAM software) for milling jobs	
14		Revision	
		Revision	
		Revision	
15		Revision	
		Revision	
		Revision	