

GOVERNMENT POLYTECHNIC

LESSON PLAN

PR-2 COMPUTER AIDED MACHINE DESIGN LAB (MEPC307)

Week	Month	Experiment	Main Topic	Activity 1	Activity 2	Hours	Remarks
1	July	1	Introduction to CAD	Interface, templates, layers	Model space, layouts, units & limits	4	
2	July	2	Drawing Aids	Grid, snap, OSNAP, polar tracking	Move, copy, mirror, offset, trim	4	
3	July	3	Annotation	Dimensions, text, leaders	Hatching, blocks, W-blocks	4	Class Test-I
4	August	4	Isometric Drawing	Create isometric views	Plotting and viewport setup	4	
5	August	5	Machine Drawing	Sectional & elevation drawings	BOM and exploded views	4	Internal Assessment-I
6	August	5	Machine Elements	Cotter, knuckle, stuffing box	Screw jack and universal coupling	4	
7	September	5	Assembly Drawing	Plummer block & machine vice	Connecting rod & flange coupling	4	
8	September	6	3D Basics	UCS, primitives	Box, cylinder, cone, sphere	4	Class Test-II
9	October	6	3D Modelling	Extrude, revolve	Sweep, loft, boolean operations	4	
10	October	6	2D from 3D	Orthographic views	Isometric views	4	
11	October	Practice	CAD Practice	Assembly exercises	Drawing corrections	4	Internal Assessment-II
12	November	Practice	Advanced CAD	Dimensioning	Plotting	4	
13	November	Practice	Standards	BIS/ISO drawing standards	Revision	4	
14	November	Practice	Model Review	Error checking	Final improvements	4	
15	November	Practice	Final Practical	Complete CAD assignment	Course completion	4	

Total P: 60

Course Teacher

HOD

Principal

Tammy Jay Savarangi

