

**GOVERNMENT POLYTECHNIC JAJPUR**


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**DEPARTMENT OF MECHANICAL ENGINEERING  
LESSON PLAN**

<b>Discipline: Mechanical</b>	<b>Semester: 5th</b>	<b>Name of the Teaching faculty: Suprava Behera</b>
<b>Subject: CAD/CAM(Pr3)</b>	<b>No of Days/Week class allotted: 4</b>	<b>Semester from Date: 01.10.21 To Date: 31.07.22 No of weeks: 15</b>
<b>Week</b>	<b>Class Day</b>	<b>Topics</b>
1st	1st (Gr 1)(2p)	Introduction to CAD& CAM
2nd	1st (Gr 1)(2p)	Fundamental of CAD
	1st (Gr 2)(2p)	Introduction to CAD& CAM
	2nd (Gr 1)(2p)	2D Drafting: Auto CAD Software over view.
3rd	2nd (Gr 2)(2p)	Fundamental of CAD
	1st (Gr 1)(2p)	Setting units, sheet size, limits etc.
	1st (Gr 2)(2p)	2D Drafting: Auto CAD Software over view.
	2nd (Gr 1)(2p)	Use of draw tool Bar
4th	2nd (Gr 2)(2p)	Setting units, sheet size, limits etc.
	1st (Gr 1)(2p)	Use of Modify tool Bar
	1st (Gr 2)(2p)	Use of draw tool Bar
	2nd (Gr 1)(2p)	Create Rectangle, circle, polygon
5th	2nd (Gr 2)(2p)	Use of Modify tool Bar
	1st (Gr 1)(2p)	Various methods to draw a rectangle
	1st (Gr 2)(2p)	Create Rectangle, circle, polygon
	2nd (Gr 1)(2p)	Various methods to draw circle
6th	2nd (Gr 2)(2p)	Various methods to draw a rectangle
	1st (Gr 1)(2p)	Drawing Circle by two point method
	1st (Gr 2)(2p)	Various methods to draw circle
	2nd (Gr 1)(2p)	Drawing Circle by three point method
7th	2nd (Gr 2)(2p)	Various methods to draw circle
	1st (Gr 1)(2p)	Drawing Circle by TAN TAN Radius method
	1st (Gr 2)(2p)	Drawing Circle by two point method
	2nd (Gr 1)(2p)	Drawing of pentagon hexagon, octagon etc
8th	2nd (Gr 2)(2p)	Drawing Circle by TAN TAN Radius method
	1st (Gr 1)(2p)	Editing of polygon
	1st (Gr 2)(2p)	Drawing of pentagon hexagon, octagon etc
	2nd (Gr 1)(2p)	Different methods of dimentioning
	2nd (Gr 2)(2p)	Editing of polygon
	1st (Gr 1)(2p)	Commands essential for creating 2D drawing

9th	1st (Gr 2)(2p)	Different methods of dimensioning
	2nd (Gr 1)(2p)	Modification commands like trim, extend, hatching, explode and region etc
	2nd (Gr 2)(2p)	Commands essential for creating 2D drawing
10th	1st (Gr 1)(2p)	3D drafting, use of UCS & WCS
	1st (Gr 2)(2p)	Modification commands like trim, extend, hatching, explode and region etc
	2nd (Gr 1)(2p)	Create various drawing views of the 3-D parts.
	2nd (Gr 2)(2p)	3D drafting, use of UCS & WCS
11th	1st (Gr 1)(2p)	Extrude the face / plane to get 3-D views.
	1st (Gr 2)(2p)	Create various drawing views of the 3-D parts.
	2nd (Gr 1)(2p)	3 D Drawings of Gib and cutter joint
	2nd (Gr 2)(2p)	Extrude the face / plane to get 3-D views.
12th	1st (Gr 1)(2p)	3 D Drawings of Screw Jack
	1st (Gr 2)(2p)	3 D Drawings of Gib and cutter joint
	1st (Gr 1)(2p)	3 D Drawings of Connecting Rod
	1st (Gr 2)(2p)	3 D Drawings of Gib and cutter joint
13th	1st (Gr 1)(2p)	3 D Drawings of Bearing Block
	1st (Gr 2)(2p)	3 D Drawings of Screw Jack
	1st (Gr 1)(2p)	Study of CNC lathe, milling(G-CODE.M-code)
	1st (Gr 2)(2p)	3 D Drawings of Connecting Rod
14th	1st (Gr 1)(2p)	Format –Dimensioning methods, Programme writing Turning Simulator-Milling simulator IS practice-commands menus
	1st (Gr 2)(2p)	Study of CNC lathe, milling(G-CODE.M-code)
	1st (Gr 1)(2p)	Format –Dimensioning methods, Programme writing Turning Simulator-Milling simulator IS practice-commands menus
	1st (Gr 2)(2p)	Editing the programme in the CNC MACHINES;
15th	1st (Gr 1)(2p)	Execute the programme in the CNC machines
	1st (Gr 2)(2p)	Execute the programme in the CNC machines
	1st (Gr 1)(2p)	Review, Sessional, record checking
	1st (Gr 2)(2p)	Review, Sessional, record checking

  
 ST.10.22  
 Lect. (Mech)  
 Signature of Faculty