

**MVSR Engineering College, Nadergul.**  
**Department of Mechanical Engineering**  
**COURSE OUTCOMES**

Class: B. E. 2<sup>nd</sup> Semester (Common to Mechanical Engg and Automobile Engg)

Name of the course: Engineering Drawing-II

Course Name (Code): ES 254 ME

At the end of the course student is able to

S.No	Outcomes	POs mapped	PSOs mapped
ME 254.1	Work extensively with advanced AutoCAD commands like layers, Grids, NURBS, etc.	1,2,4,7,10,12	2
ME 254.2	Generate the true shapes of solids and sectional views of solids cut in different positions by sectional planes.	1,2,3,4,5,9,10	1, 2
ME 254.3	Generate the points of intersection in interpenetration of solids such as cylinder versus cylinder and cylinder versus cone, etc.	1,2,3,4,7,9,10	1,2
ME 254.4	Generate Isometric views from Orthographic views and vice versa for various objects.	1,2,3,4,6,7,9,10,12	1,2
ME 254.5	Generate solid models of various objects using various Boolean operations and options such as extrude, revolve, sweep,etc.	1,2,3,4,5,6,7,8,9,10,11,12.	1, 2

**3.1.2. CO-PO matrices of courses selected in 3.1.1 (six matrices to be mentioned; one per semester from 3<sup>rd</sup> to 8<sup>th</sup> semester) (05)**

C153	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
C254.1	3	2	1	1	-	-	1	-	-	2	-	1	-	1
C254.2	2	2	-	2	1	-	-	-	1	2	-	-	1	2
C254.3	2	1	1	1	-	-	1	-	1	2	-	-	1	2
C254.4	2	1	2	1	-	1	1	-	1	2	-	1	1	1
C254.5	2	2	2	2	1	2	2	2	2	2	2	2	2	1
Total	52	26	18	22	8	12	16	12	16	30	6	14	14	18
<b>Level</b>	<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

**Table giving details of lecture periods devoted for each CO and the corresponding periods devoted for each expected PO attained by that CO.**

CO	No of Sessions	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO 10	PO 11	PO 12	PSO 1	PSO 2
1	11	8	3	-	2	-	-	1	-	-	3	-	2	-	1
2	10	5	4	2	4	2	-	-	-	2	3	-	-	2	3
3	9	4	2	4	2	-	-	2	-	1	3	-	-	1	3
4	10	4	1	1	1	-	2	2	-	2	3	-	2	1	1
5	10	5	4	4	3	2	4	3	3	3	3	3	3	3	1
Total	50	26	13	9	11	4	6	8	3	8	15	3	7	7	9
% Sessions /PO		52	26	18	22	8	12	16	12	16	30	6	14	14	18
<b>Level</b>		<b>3</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

