Lesson Plan

Name of the Faculty: Mr. Nitish Munjal (Theory & Practical)

Discipline: Department of Applied Sciences and Humanities

Semester: 1st

Subject: Engineering Drawing & Graphics (ME-105N)

Work Load (Lecture/Practical) per week (in hours): Lectures-01, Practicals-03

Week	Theory		Practical	
	Lecture day	Topic (including assignment/test)	Practical day	Topic
1st	1st	Introduction to Engineering Drawing.	1st	Introduction to Engineering Equipments, Elements of Engineering Drawing, Types of Lines, Various types of projections, First and third angle systems of orthographic projections
2nd	1st	Introduction to Projections of points in different quadrants	1st	Projections of points in different quadrants
3rd	1st	Introduction to projection of line	1st	Projections of straight lines: parallel to one or both reference planes, contained by one or both planes, perpendicular to one of the planes, inclined to one plane but parallel to the other plane
4th	1st	Line inclined to both planes	1st	Projections of straight lines: inclined to both the planes, true length of a line and its inclinations with reference planes, traces of line
5th	1st	Introduction to projection of plane	1st	Projection of planes: Introduction, types of planes, Projection of planes by change of position method only, projection of plane perpendicular to a plane, with axis parallel to both planes
6th	1st	Projection of plane inclined cases	1st	Projection of planes: with axis parallel to one plane and inclined to the other plane
7th	1st	Introduction of Projection of Solids	1st	Projection of Solids: Types of solids, Projections of Polyhedra Solids and Solids of Revolution – in simple positions with axis perpendicular to a plane, with axis parallel to both planes
8th	1st	Projection of solid inclined cases	1st	Projection of Solids: axis parallel to one plane and inclined to the other
9th	1st	Introduction to section of solid	1st	Introduction - section planes - apparent section - true section - sectional view -

				need for sectional view - cutting plane - cutting plane line. Sectional view of simple solids such as Prism, Cylinders, Pyramids and Cones in simple positions Section plane perpendicular to one plane and parallel to the other
10th	**1st**	Section of solid inclined cases	**1st**	section plane perpendicular to one plane and inclined to the other
11th	**1st**	Development of solid	**1st**	Development of surface of various simple solids in simple positions such as cubes, cylinders, prisms, pyramids etc
12th	**1st**	Orthographic view of solids	**1st**	Three orthographic views of solids
13th	**1st**	Orthographic view of nut & bolt	**1st**	Orthographic Views of Nuts & Bolts.
14th	**1st**	Autocad basics	**1st**	AUTOCAD basics: Cartesian and Polar Co-ordinate system, Absolute and Relative Co- ordinates systems.Basic Commands: Line, Point, Rectangle, Polygon, Circle, Arc, Ellipse, Polyline
15th	**1st**	Editing commands used in autocad	**1st**	Basic editing Commands: Basic Object Selection Methods, Window and Crossing Window Erase, Move, Copy, Offset, Fillet, Chamfer, Trim, Extend, Mirror Display Commands: Zoom, Pan, Redraw, and Regenerate Simple dimensioning and text, simple exercises

Assignments:-

A1: Projection of points

A2: Projection of line

A3: Projection of plane

A4: Projection of Solid

A5: Development of solid

A6: Orthographic view of solid

A7: Commands used in Auto Cad