

STATE INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Applied Science

LESSON PLAN

Subject Name:- ENGINEERING GRAPHICS AND DESIGN Subject Code:B24-ESC-102

Year:-1st

Semester:-1st, 2nd

Faculty Name: Dr. Sandeep Khatkar/ Dr. Mukesh Mann

Lecture No	Unit No	Topic	COs Covered
L 1	Unit-I	Introduction to Engineering Drawing, Introduction to Engineering Equipment's	CO1
L 2		Types of Lines, Various types of projections, First and third angle systems of orthographic projections,	
L 3		Projections of points in different quadrants	
L 4		Projections of straight lines	
L 5	Unit-II	Projection of planes: with axis parallel to both planes	CO2
L 6		Projection of planes with axis parallel to one plane and inclined to the other plane.	
L7		Projection of Regular Solids: in simple positions with axis perpendicular to a plane	
L8		With axis parallel to one plane and inclined to the other	
L9	Unit-III	Sections and Sectional Views of Right Regular Solids	CO3
L10		Development of surfaces of Right Regular Solids- Prism, Pyramid	
L11		Development of surfaces of Right Regular Solids- Cylinder and Cone	
L12		Revision	
L13	Unit-IV	Conversion of Isometric Views to Orthographic Views and Vice-versa	CO4
L14		Solid works basics; Basic and editing Commands	
L15		Revision	

Text Books:

1. Engineering Graphics using AUTOCAD 2000: T. Jeyapoovan, Vikas Publishing House.
2. Machine Drawing: Dr Basudeb Bhattacharyya, Oxford University Press, New Delhi

References:

1. Engineering Drawing: Amar Pathak, Dreamtech Press, New Delhi.
2. Engineering Drawing: Plane and Solid Geometry: N.D. Bhatt and V.M. Panchal, Charotar Publishing House.
3. Thomas E. French, Charles J. Vierck, Robert J. Foster, "Engineering drawing and graphic technology", McGraw Hill International Editions.
4. Engineering Graphics and Drafting: P.S. Gill, Millennium Edition, S.K. Kataria and Sons.
5. A Primer on Computer aided Engineering Drawing-2006, published by VTU, Belgaum.

Web resources:

<https://nptel.ac.in/courses/112103019>

<https://www.youtube.com/watch?v=gp3oKSEnEFM>