

Engineering Drawing - Web course

COURSE OUTLINE

Engineering drawing is a basic course for all undergraduate Engineering program. Though Engineering drawing is considered as the language of engineers, most of the universities offer this course as a practical course with out any lecture component.

This course is aimed at providing basic understanding of the fundamentals of Engineering Drawing; mainly visualization, graphics theory, standards & conventions of drawing, the tools of drawing and the use of Drawings in engineering applications.

The topics covered are based on the syllabus for undergraduate studies in engineering. The course is planned to include sufficient simulations which would help the student in visualization of three dimensional objects and developing the drawing.

The chapters are arranged in sequence and starts from the basic concepts of geometrical constructions & engineering curves, proceeds to the principles of projection techniques. By the end of the course it is expected that the students would be matured to visualize any engineering component by reading an engineering drawing. A number of chosen problems will be solved to illustrate the concepts clearly.

Contents:

Introduction & importance of engineering drawing, Manual drawing, drawing instruments and their uses, conventions in drawing, geometrical constructions, scales, curves in engineering practice, principles of projections, projections of points, lines, planes and solids, auxiliary projections, sections of solids, intersections of solids, development of surfaces, axinometric projection and perspective projections.

COURSE DETAIL

Sl No	Topic	Lecture No
	Module -1 (Lecture 1-15)	
1.	<ul style="list-style-type: none"> • Introduction & importance of engineering drawing. • Drawing techniques - manual drawing and computer-aided drawing. • Manual drawing instruments and their uses. 	Lecture-1
2.	<ul style="list-style-type: none"> • Conventions - ISO and BIS. • Layout of drawing sheets. • Border lines. • Title block. • Folding of drawing sheets. • Lines. 	Lecture-2



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<http://nptel.iitm.ac.in>

Mechanical Engineering

Additional Reading:

- Bureau of Indian Standards(BIS) : SP-46, 2003

Coordinators:

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Department of Mechanical Engineering|IT Guwahati

Civil Engineering Drawing Nptel

Judd E. Hollander



Civil Engineering Drawing Nptel:

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Civil Engineering Drawing Nptel**

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