

Engineering Drawing

EG 1104 AR

Year: I
Semester: I

Total: 4 hour /week
Lecture: 1 hours/week
Tutorial: hours/week
Practical: 3 hours/week

Course Description:

This course deals with geometrical construction, orthographic projections and basic techniques of freehand sketch.

Course Objectives:

After completing this course the students will be able to:

1. Present different shapes accurately.
2. Apply geometrical constructions, project point, line, plane and geometrical solids.
3. Present three dimensional objects in orthographic from and dimension them.
4. Use freehand techniques to sketch different shapes.

Course Contents:

Unit 1.	Introduction:	[4]
	1.1	Engineering drawing as graphic language
	1.2	Drawing instruments
	1.3	Scale: Reduced scale, enlarged scale, full size scale
	1.4	Conventional line types
	1.5	Sheet size and sheet layout
	1.6	Exercise on drawing horizontal, vertical and inclined lines and conventional line types [<i>Sheet 1</i>]
Unit 2.	Technical Lettering:	[4]
	2.1	General procedure for freehand technical lettering: letter stroke, letter proportion, use of pencil and pens, uniformity of letters
	2.2	Single stroke vertical capital letters, Single stroke inclined capital letters, Single stroke vertical lowercase letters, Single stroke inclined lowercase letters, vertical and inclined numerals, vertical and inclined fractions
	2.3	Lettering using templates
	2.4	Exercise on freehand technical lettering and lettering using templates [<i>Sheet 2</i>]
Unit 3.	Geometrical Construction:	[12]
	3.1	Construction on straight lines and angles Bisection and trisection of a straight line, Bisection and trisection of an angle, To draw perpendicular lines, To draw parallel lines, To divide a straight line

Engineering Drawing Syllabus Bte Board

K. Venugopal,G. Sreekanjana

Engineering Drawing Syllabus Bte Board:

A Textbook of Technical Drawing (WBSCTE) Sankar Prasad Dey, The subject Technical Drawing has been introduced in the 1st semester of all branches in state polytechnics under the West Bengal State Council of Technical Education with modifications as per model syllabus issued by the All India Council for Technical Education with effect from 2013 2014 session The conventions used in this book are as per BIS SP 46 1988 This book has been written according the new syllabus framed by the West Bengal State Council of Technical Education for Diploma Engineering Technology level It covers all the features of the entire syllabus of Technical Drawing SALIENT FEATURES All problems are explained in details Examples are given on each topic along with drawings All drawings are made using AutoCAD software Short questions and answers are given to facilitate understanding Exercises included on each topic *Technical Drawing Syllabus ,1987* **Engineering Drawing And Computer Graphics (For Wbut)** Shah M. B.,2010-09 **Engineering Drawing and Design (Book Only)** David A. Madsen,David P. Madsen,2011-06-18 ENGINEERING DRAWING AND DESIGN 5E provides your students with an easy to read A to Z coverage of drafting and design instruction that complies with the latest ANSI ASME industry standards This fifth edition continues its twenty year tradition of excellence with a multitude of actual quality industry drawings that demonstrate content and provide problems for real world practical application The engineering design process featured in ENGINEERING DRAWING AND DESIGN 5E follows an actual product design from concept through manufacturing and provides your students with a variety of design problems for challenging applications or for use as team projects Also included in this book is coverage of Civil Drafting 3D CADD solid modeling parametric applications and more *Electrical Engineering Drawing* Dr S K Bhattacharya,2007 Electrical Drawing Is An Important Engineering Subject Taught To Electrical Electronics Engineering Students Both At Degree And Diploma Level Institutions The Course Content Generally Covers Assembly And Working Drawings Of Electrical Machines And Machine Parts Drawing Of Electrical Circuits Instruments And Components The Contents Of This Book Have Been Prepared By Consulting The Syllabus Of Various State Boards Of Technical Education As Also Of Different Engineering Colleges This Book Has Nine Chapters Chapter I Provides Latest Informations About Drawing Sheets Lettering Dimensioning Method Of Projections Sectional Views Including Assembly And Working Drawings Of Simple Electrical And Mechanical Items With Plenty Of Solved Examples The Second Chapter Deals With Drawing Of Commonly Used Electrical Instruments Their Method Of Connection And Of Instrument Parts Chapter Iii Deals With Mechanical Drawings Of Electrical Machines And Machine Parts The Details Include Drawings Of D C Machines Induction Machines Synchronous Machines Fractional Kw Motors And Transformers Chapter Iv Includes Panel Board Wiring Diagrams The Fifth Chapter Is Devoted To Winding Diagrams Of D C And A C Machines Chapter Vi And Vii Include Drawings Of Transmission And Distribution Line Accessories Supports Etc As Also Plant And Substation Layout Diagrams Miscellaneous Drawing Like Drawings Of Earth Electrodes Circuit Breakers Lighting Arresters Etc Have Been Dealt With In

Chapter VIII Graded Exercises With Feedback On Reading And Interpreting Engineering Drawings Covering The Entire Course Content Have Been Included In IX Providing Ample Opportunities To The Learner To Practice On Such Graded Exercises And Receive Feedback Chapter X Includes Drawings Of Electronic Circuits And Components This Book Unlike Some Of The Available Books In The Market Contains A Large Number Of Solved Examples Which Would Help Students Understand The Subject Better Explanations Are Very Simple And Easy To Understand Reference To Norms And Standards Have Been Made At Appropriate Places Students Will Find This Book Useful Not Only For Passing Examinations But Even More In Reading And Interpreting Engineering Drawings During Their Professional Career *Drawing for Engineering* Paul Smith, 2000 Based on the South African Bureau of Standards Code of Practice for Engineering Drawing SABS 0111 this book is a step by step guide to drawing techniques It teaches both technical drawing and freehand sketching and has special units with applications for mechanical and chemical engineering *Geometrical and Mechanical Engineering Drawing Syllabus*

Caribbean Examinations Council, 2005 **Engineering Graphics (As Per Anna University Syllabus)**

Venugopal, 2008-01-01 *Engineering Graphics (As Per Polytechnic)* K. Venugopal, G. Sreekanjana, 2007-01-01

Engineering Drawing Sergey Bogolyubov, 1999 Textbook *Geometrical and Mechanical Engineering Drawing*

Syllabus Caribbean Examinations Council, 2002 **Engineering Drawing** S. Bogoliubov, A. Voinov, 1979 **Engineering**

Drawing Measurement And Materials Engineering Industry Training Board, 1986 *Engineering Graphics (As Per Jntu*

Syllabus) K. Venugopal, 2007-01-01 **Practical geometry, perspective and engineering drawing. [With] Plates**

George Sydenham Clarke (baron Sydenham of Combe.), 1884 **Technical Drawing**, 1998 **Fundamentals of**

Engineering Drawing Imtiaz Hashmi, 2010-08 The engineer should develop his skill in two phases of technical drawing first

he must be able to draw clearly and rapidly the freehand technical sketches secondly he must be proficient in drawing to

scale the instrumental drawing The purpose of this book is to give the basic principles of instrumental drawing only This

book covers the syllabus usually prescribed for Pre engineering and First Year of the Degree and Diploma courses in

Engineering and deals with fundamental principles of the basic subject keeping in view the difficulties of a beginner in the

subject of Engineering Drawing I am quite hopeful that this book will serve its purpose very well for young engineers

Engineering Graphics (as Per Latest Anna Syllabus) K. Venugopal, 2006-01-01 **Engineering Drawing** Sergei

Konstantinovich Bogoliubov, A. Voinov, 1968 *Engineering Graphics: For RGPV*,

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