



Introduction to Engineering Graphics

Q1. Define Engineering Drawing. Why Drawing is called the Universal Language of Engineers?

Answer :

- Engineering drawing is a graphical language of an engineer to convey one's ideas most effectively, easily, conveniently and with high speed.
- So Engineering drawing is a starting point of all engineering branches such as Mechanical, Production, Civil, Electrical, Electronics, Computer science, Chemical etc.
- It is spoken, read, and written in its own way. Engineering drawing has its own grammar in terms of projections, conventional representations, types of lines, abbreviations, symbols and various geometric constructions.

Q2. Name Different Drawing Instruments?

Ans –Drawing board, drawing sheet, mini-drafter, scale, pencil and sandpaper block, cello-tape, eraser and compass

Q3. What are Different Types of Scales?

Ans- Different styles of scales are:

- Plain scale: In which, one can measure certain units and their one-tenth value. For example, a scale in cm and mm is a plain scale, and dm is another plain scale.
- Diagonal scale: In which one can measure certain units, its one-tenth value as well as its one-hundredth value. For example, a scale in m, dm and cm is a diagonal scale, dm, and cm and mm is another diagonal scale.
- Comparative or Corresponding scale: These are two different scales having the same R.F. but different units. These can be placed side by side or placed over one and another. For example in miles and kilometres.
 - These scales can be plain scales or diagonal scales.
- Vernier scale: It is a scale that is extremely accurate for measurement. It uses a Vernier calliper. Vernier calliper is an instrument to measure a dimension very precisely. Normally its least count is 1/100 of the scale unit. Say a scale is in cm, then a Vernier can measure very accurately up to 1/100 of a cm.

Q4. What are Applications Of Scales?

Ans-Scales can be used for the following purposes:

- To draw an object on a full, reduced and enlarged scale.
- To measure distances.
- To mark dimensions on the drawing

Q5. What Are The Requirements For The Construction Of A Scale?

Answer :(i) Maximum distance to be measured

(ii) R.F. (representative fraction) of the scale

Units of scale i.e. mm, cm, m, km

Q6. Name The Different Types Of Line Use In Engg. Drawing?

1. Ans- 0.2 Mm Medium- Outlines, Dotted Lines, Cutting Plane Lines
2. 0.1 Mm Thin – Centre Lines, Section Lines, Dimension Lines, Extension Lines, Construction Lines, Leader Lines, Short Break Lines And Long Break Lines.

Q7. What Are Standard Specifications Of Drawing Sheets And Pencils?

Ans- A0, A1, A2, A3, A4

H, 2H, 3H, 4H etc

B, 2B, 3B, 4B etc

Q8.What do you Mean by R.F.? What is The Unit of R.F.?

Ans: – The Ratio of length of the drawing to the actual length of the object is called The Representative Fraction (R.F).

$R.F. = \text{Drawing Length} / \text{Actual Length}$

R.F is unitless.

Viva Questions On Engineering Drawing

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Viva Questions On Engineering Drawing:

Manual of Engineering Drawing Colin H. Simmons, Dennis E. Maguire, 2003-10-21 The Manual of Engineering Drawing has long been recognised as the student and practising engineer's guide to producing engineering drawings that comply with ISO and British Standards. The information in this book is equally applicable to any CAD application or manual drawing. The second edition is fully in line with the requirements of the new British Standard BS8888:2002 and will help engineers, lecturers and students with the transition to the new standards. BS8888 is fully based on the relevant ISO standards so this book is also ideal for an international readership. The comprehensive scope of this book encompasses topics including orthographic, isometric and oblique projections, electric and hydraulic diagrams, welding and adhesive symbols and guidance on tolerancing. Written by a member of the ISO committee and a former college lecturer, the Manual of Engineering Drawing combines up to the minute technical accuracy with clear, readable explanations and numerous diagrams. This approach makes this an ideal student text for vocational courses in engineering drawing and undergraduates studying engineering design product design. Colin Simmons is a member of the BSI and ISO Draughting Committees and an Engineering Standards Consultant. He was formerly Standards Engineer at Lucas CAV. Fully in line with the latest ISO Standards. A textbook and reference guide for students and engineers involved in design engineering and product design. Written by a former lecturer and a current member of the relevant standards committees. *Technical Drawing and 3D Modeling* Mr. Rohit Manglik, 2024-07-24 Introduces technical drawing and 3D modeling techniques. Covers CAD software, drafting standards and visualization for engineering and architectural designs. **Machine Drawing** O.P. Jakhar, Amit Mathur, This book is designed for the students of Engineering and Technology as well as specially for Mechanical Engineering Degree and Diploma students. The teaching of this course faces difficulty in explaining the various concepts of machine drawing viz. orthographical projection, sectioning, complicated mechanical assembly drawing etc. Sometimes explanation requires some three-dimensional and complicated drawing to be drawn on the blackboard which is quite impossible due to the time constraint of class. This book is an outcome of the strong need felt by students offering the course and the teaching need felt by us. The teacher can explain the related concepts, drawing methods and uses of various parts being drawn etc. in each practical class without bothering the blackboard. The subject matter has been compressed from the viewpoint of Mechanical Engineering students. The book also contains Basic Drawing Softwares which describe about the basics of AutoCAD, CATIA, PROE, ANSYS etc. which is useful for today's need of Engineering Technology. **A Text Manual of Engineering Workshop Technology** N. Balasubramanyam, G. Prasanthi, 2016-05-26 This book on Basic Engineering Workshop Technology has been written as per curriculum of JNT University to help first-year B.Tech. Students. This subject matter is presented in simple language and in a proper sequence so that an average student can easily grasp the subject matter. At the end of each exercise, a model viva voce question is given for the benefit of the book reader and appearing for

their lab External examinations and other competitive examinations Reports from Commissioners Great Britain. Parliament. House of Commons,1868 **Report by Her Majesty's Commissioners Appointed to Inquire Into Schools in Scotland** Great Britain. Education Commission (Scotland).,1868 Report by Her Majesty's Commissioners Appointed to Inquire Into the Schools in Scotland: pt. 1 Burgh and middle-class schools, together with the general and special reports of the assistant-commissioners Great Britain. Royal Commission on Schools in Scotland,1868 **ENGINEERING PRACTICES** S. SUYAMBAZHAHAN,2012-01-09 This book helps students acquire hands on skills in the following areas of workshop practices Plumbing and carpentry Arc and gas welding sheet metal work and machining operations Smithy foundry machine assembly and fitting operations Methods of household and industrial wiring use of measuring instruments identification of electronic components and devices and the study of their characteristics through experimentation soldering of electronic components etc The book is intended for the first year undergraduate engineering students of all disciplines KEY FEATURES Includes a large number of figures and examples for easy understanding of operations of tools and equipment Offers viva questions with answers for practical examination **Municipal Journal and Public Works Engineer** ,1911 Calendar Panjab University,1959 MECHANICAL WORKSHOP PRACTICE, Second Edition JOHN, K. C.,2010-08-27 Designed for the core course on Workshop Practice offered to all first year diploma and degree level students of engineering this book presents clear and concise explanation of the basic principles of manufacturing processes and equips students with overall knowledge of engineering materials tools and equipment commonly used in the engineering field The book describes the general principles of different workshop processes such as primary and secondary shaping processes metal joining methods surface finishing and heat treatment The workshop processes covered also include the hand working processes such as benchwork fitting arc welding sheet metal work carpentry blacksmithy and foundry It also explains the importance of safety measures to be followed in workshop processes and details the procedure of writing the records of the practices The tools and equipment used in each hand working process are enumerated before elaborating the process Finally the book discusses the machining processes such as turning operations the cutting tools and the tools used for measuring and marking and explains the working principle of Engine Lathe An appendix for advanced level practice and assessment of work has also been included New to This Edition A separate chapter on Plumbing as per the revised syllabus of Indian Universities Method for sketching isometric single line piping layout Neatly drawn illustrations and examples on Plumbing Key Features Follows the International Standard Organization ISO code of practice for drawings Includes a large number of illustrations to explain the methods and processes discussed Contains chapter end questions for viva voce test and exercises for making models

Manufacturing Practices Laboratory Manual For Engineering Courses M.S. Matharu,Sukhpal Singh,2021-05-19 This manual covers in details the theory and practices of Carpentry and Pattern Making Shop Foundry Shop Smithy and Forging Shop Machine Shop Welding Shop Electrical and Electronic Shops Sheet Metal Shops Fitting Shop *Glasgow*

University Calendar University of Glasgow, 1905 *Calendar* University College, London, 1963 *A Textbook of Machine Drawing (In First Angle Projection)* R.K.Dhawan, 1998-12 This book is for B Sc Engg B E Dip In Mech Engg Production Engg Automobile Engg Textile Engg etc I T I Draftsman Course in Mech Engg A T I 10 2 System and other Engineering Examinations According to Bureau of Indian Standards B I S SP 46 1988 IS 696 1972 *Automobile Engineer*, 1916

Basic Electronics Engineering Satya Sai Srikant, Prakash Kumar Chaturvedi, 2020-04-27 This book is primarily designed to serve as a textbook for undergraduate students of electrical electronics and computer engineering but can also be used for primer courses across other disciplines of engineering and related sciences The book covers all the basic aspects of electronics engineering from electronic materials to devices and then to basic electronic circuits The book can be used for freshman first year and sophomore second year courses in undergraduate engineering It can also be used as a supplement or primer for more advanced courses in electronic circuit design The book uses a simple narrative style thus simplifying both classroom use and self study Numerical values of dimensions of the devices as well as of data in figures and graphs have been provided to give a real world feel to the device parameters It includes a large number of numerical problems and solved examples to enable students to practice A laboratory manual is included as a supplement with the textbook material for practicals related to the coursework The contents of this book will be useful also for students and enthusiasts interested in learning about basic electronics without the benefit of formal coursework **The Automobile Engineer**, 1916

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