



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 mmm 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.

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LP Steffe



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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 concept 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 black board 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 black board The subject matter has been compressed from the view point of Mechanical Engineering students The book also contains Basic Drawing Softwares which describes about the basics of Auto CAD CATIA PROE ANSYS etc which is useful for today's need of Engineering Technology 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

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