

Engineering Drawing Lecture Notes Ppt

Engineering Drawing Lecture Notes Ppt Engineering Drawing Lecture Notes PPT 1 to Engineering Drawing 11 What is Engineering Drawing Definition of engineering drawing Purpose of engineering drawings Importance of clear and accurate communication Role of engineering drawings in the design and manufacturing process 12 History and Evolution of Engineering Drawing Brief history of drawing techniques Development of standards and conventions Impact of computeraided design CAD 13 Types of Engineering Drawings Orthographic projection multiview drawings Isometric and axonometric projections Perspective drawings Assembly drawings Detail drawings Schematics 14 Drawing Tools and Equipment Drafting board Truler and triangles Drafting pencils and pens Compass and dividers Protractors and scales Erasers and sharpening tools to CAD software if applicable 2 Basic Drawing Principles and Conventions 21 Orthographic Projection Principles of projection 2 First third and other angle projection methods Viewing planes and their relationship to the object Creating multiview drawings front top side views 22 Lines and Their Types Types of lines visible hidden center construction dimension etc Line weight and its significance Line conventions according to standards eg ANSI ISO 23 Geometric Shapes and Constructions Basic geometric shapes points lines circles arcs etc Construction techniques bisecting lines constructing angles dividing lines etc Using compass and ruler for accurate constructions 24 Dimensioning and Tolerancing Purpose and principles of dimensioning Dimensioning methods linear angular radial etc Tolerances definition types and their importance Dimensioning standards and symbols 3 Projection Methods 31 Isometric Projection Principles of isometric projection Isometric axes and their angles Creating isometric drawings of simple objects Isometric dimensioning 32 Axonometric Projection Types of axonometric projection isometric dimetric trimetric Differences between isometric and axonometric projection Advantages and limitations of each method 33 Perspective Projection Principles of perspective projection Onepoint twopoint and threepoint perspective Creating perspective drawings of objects Use of perspective in architectural and artistic drawings 4 Assembly and Detail Drawings 3 41 Assembly Drawings Purpose and components of assembly drawings Exploded view drawings Bill of materials BOM Assembly instructions 42 Detail Drawings Purpose of detail drawings Creating detailed drawings of individual components Dimensioning and tolerancing for manufacturing Section views and crosssections 5 ComputerAided Design CAD 51 to CAD Benefits of using CAD software Common CAD software packages eg AutoCAD SolidWorks Basic CAD operations drawing editing dimensioning 52 2D CAD Drawings Creating and editing 2D drawings Using layers blocks and symbols Printing and exporting drawings 53 3D CAD Modeling Creating 3D models using various techniques Rendering and visualization

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if you lecture on a particular subject you give a lecture or a series of lectures about it she then invited him to atlanta to lecture on the history of art

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