Engineering graphics pdf 1st year



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AN ISO 9001:2008 Certified Institute (approved by AICTE, New Delhi, associated with The University of Anne, Tiruchirappalli) No: 04544 - 291333, 291334, 245422, 245423 - Fax No:04544-245392, 93 Website: www.nprcet.org, www.nprcolleges.org E-Mail: nprgc@nprcolleges.org ENGINEERING GRAPHICS I SEMESTER ENGINEERING Prepared by Ganes Murty.R., Professor of Mechanical Engineering, N.P.R.College of Engineering and Engineering, Natham. NPR/ME/RGM/EG/I SEM/2010-2011 Page 2 5) 10AEG01 ENGINEERING GRAPHICS L T P P 2 3 0 5 AIM: Develop graphic skills in students. UNIT 0 (NOT FOR EXAMINATION) The importance of engineering graphics - the use of drawing tools. BIS Convention, specs, layout of drawings, writing and measuring 1 UNIT I PLANE CURVES AND EXPERIENCE IN ORTHOGRAPHIC PROJECTION (curves used in engineering practices) Building Ellipses, parabola and hyperbole are the only method of eccentricity. Construction OF CYCLOID, INVOLUTE FROM SUMER AND CIRCLE only. 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Section of the axis is perpendicular to HP alone) by aircraft either prone to HP, or only vice president - True form of section. 15 UNIT IV DEVELOPMENT OF SURFACES AND ISOMETRIC The development of the vertical vertical side surface cylinder pyramid, and a cone truncated surfaces and prism with cylindrical cutouts perpendicular to the axis. Isometric projection of solids such as prism, pyramid, cylinder and cone; A combination of either two the firm is tilted when the solid is in a simple upright position, the cutting plane is prone to HP. 15 UNIT V FREE HAND SKETCHING AND PERSPECTIVE PROJECTION Free hand sketches of the front view, top view and a suitable view from the side of simple components from their isometric views. The normal perspective of the prism, pyramid, cylinder and cone in an upright position is only by the method of visual beam. 14 11 TEXT BOOKS: 1. Engineering Graphics by Dr. S. M. Sekkilar, Anuradha Publishing, Revised Edition 2008. 2. Engineering Drawing, N.D. Bhatt, Charotar Publishing House, 46th edition. (2003). SOURCE: 1 Text Book of Engineering Graphics, K. V. Natarajan, Dhanalakshmi Publishing House, Chennai (2006). 2. Engineering Graphics, M.S. Kumar, D.D. Publications. (2007). Publications of the Bureau of Indian Standards: Page 3 NPR/ME/RGM/EG/I SEM/2010-2011 Page 1 ISO 9001:2008 N.P.R. COLLEGE OF ENGINEERING - TECHNOLOGY N.P.R. Nagar. Natham - 624 401. Tamil Naddah, India. AN ISO 9001:2008 Certified Institute (approved by AICTE. New Delhi, associated with The University of Anne. Tiruchirappalli) No: 04544 - 291333, 291334, 245422, 245423 - Fax No:04544-245392, 93 Website: www.nprcet.org, www.nprcolleges.org E-Mail: nprgc@nprcolleges.org ENGINEERING GRAPHICS I SEMESTER ENGINEERING Prepared by Ganes Murty.R., Professor of Mechanical Engineering, N.P.R.College of Engineering and Engineering, Natham. NPR/ME/RGM/EG/I SEM/2010-2011 Page 2 5) 10AEG01 ENGINEERING GRAPHICS L T P P 2 3 0 5 AIM: Develop graphic skills in students. 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NPR/ME/RGM/EG/I SEM/2010-2011 Page 4 UNIT 0 (NOT FOR EXAMINATION) The importance of engineering graphics - the use of drawing tools. BIS Conventions, layout drawings, inscriptions and measurements 11MPORTANCE ENGINEERING GRAPHIC in the engineering profession, it is important that engineers and artisans can communicate their ideas and facts with each other clearly and without ambiguity. Oral communication can be very ineffective, lengthy and boring to create an accurate mental and physical impression of the subject in the mind of the reader The engineering drawing, which is a graphic communication of the exact and unambiguous description of the object, proved to be an effective method of communication. It is a means of organizing and presenting precise technical directions for goods to be produced for consumers. An engineering drawing can provide all the necessary information with the precision and detail needed. Thus, it is one of the main functions of drawing to convey ideas from design engineer to manufacturer. Therefore, the ability to interpret and build engineering sketches and drawings is of paramount importance. An engineer can convey his ideas in one or more of the three main types of projections, namely; Retographic projection, Projection or perspective of the projection, depending on the purpose of the picture and the person to whom he wants to convey his ideas. Some professional areas have different items, such as machine drawing, architectural drawing, and structural pattern. Page 5 NPR/ME/RGM/EG/I SEM/2010-2011 Page 1 ISO 9001:2008 N.P.R. COLLEGE OF ENGINEERING and TECHNOLOGY N.P.R. Nagar, Natham - 624 401, Tamil Nadu, India. 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