

INDIAN INSTITUTE OF TECHNOLOGY KANPUR
KANPUR-208016, INDIA

TA - 101 (Technical Art)

2016 -2017 II Semester

Course Objective

To learn the basics of Technical Drawing in THEORY and PRACTICE using free hand sketching, drafting with help of hand-held drafting tools, and computer-aided drafting (AutoCAD). In general, it provides necessary information about the shape, size, surface quality, material, manufacturing process, etc., of the object.

Course Content

Introduction to brief history of sketching, orthographic projections, principles of dimensioning, isometric drawing and projections, pictorial views, missing lines and views, sectional views, perspective views, introduction to computer aided Design/Drafting, relationship between lines and planes, auxiliary view, intersection of lines, planes and solids, development of lateral surfaces of simple solids.

- The lecture notes and solutions will be posted on course webpage/BRIHASPATI.

Text Book

1. French T. E., Vierck, C. J., Foster, R. J., Engineering Drawing and Graphic Design. Tata McGraw-Hill Edition, Fourteenth Edition, 2012. (Original edition: McGraw-Hill Book Company New York, Fourth Edition, 1984: Available in Library).
2. 3. Bhatt, N. D., Elementary Engineering Drawing, Charoter Publishing, Anand, Thirty First Editions, 1990.

Reference Book

1. Bethune J D, Engineering Graphics with AutoCAD, Prentice-Hall, Englewood Cliffs, First Edition, 1995
2. Luzadder, W. J., Duff, J. M., Fundamentals of Engineering Drawing, Prentice-Hall India, New Delhi, Eleventh Edition, 1983.