

# COMPETENCY BASED VOCATIONAL CURRICULUM ON COMPUTER AIDED DESIGN AND DRAFTING

Competency Based Curriculum on "Computer Aided Drawing and Drafting" has been developed for a two-year course at the plus two stage of Secondary Education. It has been designed to ensure attainment of knowledge and skills required for performing the listed jobs.

Drafting is the graphic language used by industries to communicate ideas and plans, and take them from the creative design stage through production. The world of technical drawing and design is going through a period of major transition from manual to automated techniques; Computer Aided Design and Drafting (CADD) has become the standard tool, but elements of the traditional methods and tools remain. CADD enables to prepare fast and accurate drawings and flexibility to change drawings with minimal effort. In recent years, many professionals have switched to CADD to enjoy the benefits of this precise and creative tool. Today, many educational institutions include CADD as part of their academic curriculum. As a result, CADD knowledge has become very important to all professionals involved in the field of design and drafting. There is a felt need to produce the professionals in this area. It was therefore considered appropriate, analyzing a demand from economic sector, to develop the above course in Computer Aided Design and Drafting at the +2 level. The skills and techniques required for performing a job changes with the change in technology. This necessitates training the skilled personnel in emerging skills and techniques.

## JOB OPPORTUNITIES

### WAGE EMPLOYMENT

1. Draughtsman in Industries, Government Departments, Consultants offices (Architect, Mechanical/Electrical Engg, Builder, Interior decorator), Universities/ Colleges/ Training institutions, Technical Institute/ Research organisation
2. CADD teacher in school/ ITIs/ Training institutions
3. Assistant in studios (Animation, films)
4. Laboratory assistant/ Draftsman in CADD laboratory
5. CADD Marketing personnel

### SELF EMPLOYMENT

1. Job on order in Plotting, Digitising, Computerised drawing and drafting
2. Consultancy in Animation, Video, Film and Walkthrough
3. Consultancy in CAD software support
4. Training centre of CADD

## Subjects covered in the course

<b>Class – XI</b>	Paper I	:	Engineering Drawing Fundamentals
	Paper II	:	Computer Aided Drawing – I
	Paper III	:	Elements of Engineering Drawing
<b>Class – XII</b>	Paper IV	:	Advanced Engineering Drawing
	Paper V	:	Computer Aided Drawing – II
	Paper VI	:	Computer Aided Drawing – III