



GOKARAJU RANGARAJU INSTITUTE OF ENGINEERING AND TECHNOLOGY

CAD LAB

Course Code: GR15A2010
II Year I Semester

L:0 T:0 P:2 C:2

Prerequisites

- Knowledge of building drawing and planning

Course Objectives

- To teach the students to use the functions and commands of CAD software to create, save, and print drawings that make use of multiple lines, geometric shapes, and curves.
- To train the students to locate and apply the many features of CAD that automate the drafting process and facilitate the creation of more accurate drawings in less time than traditional drafting methods.

Course Outcomes: After completing the CAD, students will be able to:

- An ability to perform basic sketching techniques will improve.
- An ability to draw orthographic projections and sections.
- An ability to use architectural and engineering skills will increase.

Contents

1. Introduction to CAD (Computer Aided Drafting).
2. General commands and their practices.
3. Software for CAD and Introduction to different software.
4. Practice exercise on CAD software. (Not to Scale figure).
5. Draw a plan to single storied building (1BHK, 2BHK, 3BHK).
6. Draw a plan for multi storied building (1BHK, 2BHK, 3BHK).
7. Development of sections and elevations for single and multi-storied buildings.
8. Development components of buildings
 - I. Doors.
 - II. Windows.
 - III. Trusses.