

Course No.	Course Name	L-T-P - Credits	Year of Introduction
CE231	CIVIL ENGINEERING DRAFTING LAB	0-0-3-1	2016

**Prerequisite :** BE 110 - Engineering Graphics

**Course Objectives :**

1. To introduce the fundamentals of Civil Engineering drawing.
2. To understand the principles of planning
3. To learn drafting of buildings.
4. To impart knowledge on drafting software such as AutoCAD.

**List of Exercises :** (at least 10 exercises / plates are mandatory )

1. Paneled Doors
2. Glazed Windows and Ventilators in wood
3. Steel windows
4. Roof truss in steel sections
5. Reinforced concrete staircase
6. Residential buildings with flat roof
7. Residential buildings with tiled roof
8. Preparation of site plan and service plans as per building rules
9. Building Services (for single and two storied buildings only). Septic tanks and soak pit detailed drawing
10. Two storied and multi storied buildings
11. Public buildings like office, dispensary, post office, bank etc.
12. Industrial buildings with trusses

**Expected outcome.**

To accomplish the abilities/skills for the following.

1. To understand the drawings of various components of buildings
2. Preparation of building drawings.
3. Interpretation of building drawings.
4. Use of a drafting software.

**Text Books:**

1. National Building Code of India.
2. Kerala Municipal Building Rules.
3. Dr. Balagopal T.S. Prabhu, Building Drawing and Detailing, Spades Publishers, Calicut
4. AutoCAD Essentials, Autodesk official Press, John Wiley & Sons, USA

**References:**

1. Shah, M.G., Kale, C. M. and Patki, S.Y. Building Drawing With An Intergrated Approach to Built Environment, Tata McGraw Hill Publishing Company Limited, New Delhi

**Points to note:**

1. Equal weightage to be given for manual drafting and drafting using computer aided drafting software.
2. Evaluation of drawing, along with a viva-voce, to be done at the end of every day class.

**Internal Continuous Evaluation - 100 marks**

Best 10 plates - 60 marks

Viva-voce - 10 marks

Final Examination - 30 marks

