

31056 CAD IN CIVIL ENGINEERING DRAWING II

DETAILED SYLLABUS

OBJECTIVES

On completion of the course, the student will be familiar

- To prepare Public Health Engineering drawings using CAD
- To know about RCC and Steel bridge structures and draw views using CAD
- To understand and draft structural Engineering drawings using CAD

LIST OF EXPERIMENTS

PREPARATION OF DRAWINGS USING CAD SOFTWARE

UNIT- I PUBLIC HEALTH ENGINEERING

Draw plan and sectional views of the following

1. Rapid Sand Filter
2. Septic Tank with dispersion Trench / Soak pit
3. R.C.C square overhead tank supported by four columns

UNIT- II BRIDGE DRAWING

Draw plan and sectional views of the following

1. Steel Foot over bridge across a highway
2. Two span Tee Beam Bridge with square returns

UNIT- III STRUCTURAL ENGINEERING

Draw plan, cross section and longitudinal section

1. Continuous one-way slab (with three equal spans)
2. Simply supported two-way slab 8. Restrained two-way slab
3. Singly reinforced rectangular beam
4. Doubly reinforced Continuous beam (Rectangular beam with two spans)
5. Tee Beams supporting continuous slab
6. Lintel and Sunshade
7. Dog-legged staircase
8. R.C.C. Column with square isolated footings