

CIVIL ENGINEERING DRAWING LAB:

Objective:

After completion of the course, students will be able to use AutoCAD or CAD softwares to

- Use AutoCAD modules to prepare engineering drawings
- Comprehend various drawing commands available in CAD software
- Prepare plan, elevation and section views of flat roof and inclined roof buildings
- Prepare RCC slab culvert drawings
- Prepare Hume pipe culvert drawings
- Prepare detailed drawings including plan, elevation and section views of irrigation structures
- Prepare detailed drawings of drainage siphons
- Generate drawings of plumbing and sanitary connections in two room buildings
- Generate detailed drawing of septic tanks

ESTIMATION PRACTICE LAB:

Objective:

After completion of the course, students will be able to

- Prepare estimates for 2 room single storey building
- Prepare estimate for 2 storeyed buildings
- Comprehend the schedule and analysis of rates offered by State Works Department
- Use MS Excel to prepare analysis of rates
- Evaluate dry material list and cost associated using MS Excel
- Prepare abstract of costs and bill of materials for single storey and double storey buildings

CADD Lab and Design & Detailing Practice

Objective:

On completion of the course students will be able to

- Draw necessary detailing and schedule of bars for the various structural members
- Draw important components of buildings using AutoCAD
- Draw connectors using AutoCAD
- Use STADD Pro in modeling structural members
- Analyze the stress and deformation pattern in structural members
- Design of buildings using STADD Pro software
- Prepare building drawings suiting to approval needs prescribed by regulatory bodies

