

ET 123 ENGINEERING DRAWING - fall 2017

Objectives:

To enable students to learn and develop engineering drawing skills.

Course Outline:

MECHANICAL DRAWING: Use of drafting instruments. Basic drafting techniques, drawing and lettering, dimensioning, projections and section of solids, Orthographic projections, Isometric views with particular reference to piping and ducting, Practice of assembly drawing.

CIVIL DRAWING: Plan, Elevations (front, left and right) and details of buildings .Elements of perspective drawings.

ELECTRICAL DRAWING: Electrical safety drawings, Electric substation equipment layout, Schematic Diagrams of substations, lighting and power distribution boards in contrast with house and industrial wiring diagrams, Electrical Symbols and one line diagrams of a typical power system and its parts using all details.

Week No.	Topics
1	Use of drafting instruments. Basic drafting techniques
2	drawing and lettering, dimensioning
3	projections and section of solids, Orthographic projections
4	Isometric views with particular reference to piping and ducting
5	Practice of assembly drawing
6-7	Plan, Elevations (front, left and right) and details of buildings
8	Mid Term
9	Elements of perspective drawings
10	Electrical safety drawings
11	Electric substation equipment layout
12	Schematic Diagrams of substations
13-14	lighting and power distribution boards in contrast with house and industrial wiring diagrams
15	Electrical Symbols and one line diagrams of a typical power system and its parts using all details
16	Revision/Presentations