University of Management & Technology

School of Science & Technology

Department of Electrical Engineering

EE 102 Engineering Drawing

Tue: 14:30 -17:30 (Sec A)

Tue: 09:30 -12:30 (Sec C)

Wed:14:30 -17:30 (Sec D)

Thu14:30 -17:30 (Sec B)

Fri: 14:30 -17:30 (Sec E)

Lecture

Schedule

Semester

Spring 2013

N/A

Mehwish Inam(Sec A, D, E) 1

Masooma Atiq (Sec B, C) 2

Credit Hours

1

Mehwish.mujahid@umt.edu.pk1

Masooma.atiq@umt.edu.pk2

Instructor(s)

Contact

Office

3S-33,Room 21,2 SST Campus

Office Hours

See office window 1,2,

Teaching

Assistant

Office

None

N/A

Contact

Office Hours

N/A

N/A

 Course

Description

 This is an undergraduate level course to introduce the students to the basic concepts of

Engineering Drawing using Computer-Aided Design. Students will be introduced to

software packages, such as AUTOCAD.

Expected

Outcomes

 In accordance with HEC curriculum outcomes a, b, d, e, g, h & i, students at the end of

the course should be able to

Comprehend and manually sketch engineering drawings

Understand the principles & application of CAD.

Textbook(s)

1. A First Year Engineering Drawing by A.C. Parkinson

2. Introduction to AutoCAD 2008 2D and 3D design by Alf Yarwood 1st Edition



Grading

 Policy

Final:40%

Assignments: 60%

Course Schedule

Lecture

1

Topics

Introduction to Drawing and Drawing Equipment

Types of Lines and Pencils

Introduction to Lettering

Textbook (TB) /

Reference (Ref)

 Readings

TB1 (Part 1)

2

TB1 (Part 1)

3-4

Sheet Division

Introduction to 1st angle and 3rd angle orthographic projection

TB1 (Part 1)

5-7

Drawing Different 3D objects on sheet using 1st angle

Projection Method

TB1 (Part 1)

TB2 ch.1

8

Introduction to AutoCAD

Drawing Tools

Osnap & Auto snap

Zoom, Pan &Templates

9-10

TB2 ch.2,3,4

11

Modify Tools

TB2 ch.5

12

Dimension and Text Writing

TB2 ch.6

13

Complete Sheet Planning in AutoCAD

Drawing a 3D object in AutoCAD using 1st angle Projection

Method

TB2 ch.7

Electrical Circuit Diagrams in AutoCAD

14

none

Final Term Exam (Viva & Drawing)