**University of Management and Technology**

**Course Outline**

Course code……EE 102………………… Course title……Engineering Drawing…..

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| Program | BSEE |
| Credit Hours | 1 |
| Duration | One semester |
| Prerequisites | Nil |
| Resource Person | Abdullah Khalid |
| Counseling Timing  (Room# ) | See my office window  Machines Lab |
| Contact | abdullah.khalid@umt.edu.pk |

**Chairman/Director signature………………………………….**

**Dean’s signature…………………………… Date………………………………………….**

**Learning Objective:**

Upon Completion of the course, the students will be able to:-

1. Comprehend and manually sketch engineering drawings
2. Understand the principles & application of CAD.

**Learning Methodology:**

Lecture, interactive, participative

**Grade Evaluation Criteria**

Following is the criteria for the distribution of marks to evaluate final grade in a semester.

**Marks Evaluation Marks in percentage**

Sessional 40%

Final exam/Viva 60%

Total 100%

**Recommended Text Books:**

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**Text book:**

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

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

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| **University of Management & Technology**  School of Engineering  Department of Electrical Engineering  **logo** | |
| **EE 102 Engineering Drawing Lab**  **List Of Experiments** | |
| **Week** | **Experiments** |
| **1** | **Introduction to Drawing, Drawing Equipment and Introduction to Lettering** |
| **2** | **Types of Lines ,pencils and Introduction of Shapes** |
| **3** | **Sheet Division and Introduction to 1st angle and 3rd angle orthographic Projection**  **Drawing of 3D Object using 1st angle projection** |
| **4** | **Drawing of 3D Object using 1st angle projection** |
| **5** | **Drawing of 3D Object using 3st angle projection** |
| **6** | **Drawing of 3D Object using 3st angle projection** |
| **7** | **Drawing of Electric Circuit** |
| **8** | **Introduction to AutoCAD** |
| **9** | **Introducing Drawing, Draw Tools ,Osnap** |
| **10** | **Draw Tools,AutoSnap,Zoom,Pan,Template** |
| **11** | **The Modifying Tools** |
| **12** | **Dimensions And Text** |
| **13** | **Introduction of 3D Objects in AutoCAD** |
| **14** | **Electrical Circuit Diagrams in AutoCAD** |
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