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| **DEPARTMENT OF ELECTRICAL ENGINEERING** | | |
| COURSE NAME: Engineering Drawing | TERM: Spring 2020 | NO. OF EXPERIMENTS: 14 |
| COURSE CODE: EE-205 | SEMESTER: 4 | TOTAL MARKS: 25 |
| RESOURCE PERSON: Rimsha Musharraf | SESSION: 2018-2022 | RELEVANT PROJECT: 1 |

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| CLO statement   1. **Ability to draw basic drawing objects** 2. **Ability to read Engineering drawing** 3. **Apply engineering drawing skills using Auto CAD tool.** |

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| **Sr. No.** | **Statement** | **Taxonomy level** | **CLO** | **PLO** |
|  | Introduction and Importance of Engineering Drawing | P1 | 2 | 1 |
|  | Basic Display Commands (Zoom, Pan) and basic drawing commands (Line,  Polyline).  Basic Display Commands (Zoom, Pan) and basic drawing commands (Line,  Polyline).  Basic Display Commands (Zoom, Pan) and basic drawing commands (Line,  Polyline).  Basic Display Commands (Zoom, Pan) and basic drawing commands (Line,  Polyline).  Types of lines and usage, Dimensioning, projection | P2 | 2 | 1 |
|  | Orthographic projections (1st angle) projection and dimensioning | P2,P3 | 2 | 1 |
|  | Orthographic projections (2nd angle) projection and dimensioning | P2, P3 | 2 | 1 |
|  | Introduction to AutoCAD(basics commands of AutoCAD) | P4 | 3 | 5 |
|  | Introduction to 2D drawing, Basic Display Commands (Zoom, Pan) and basic drawing commands (line, polyline) | P4 | 3 | 5 |
|  | Setting up drawing sheet & status bar | P4 | 3 | 5 |
|  | Working with Modify Toolbar Commands. | P4 | 3 | 5 |
|  | Architectural drawings(Floor plan drawing) | P2 | 1 | 5 |
|  | Electrical wiring diagram | P4 | 3 | 5 |
|  | Power system layout | P4 | 2 | 1 |
|  | Working with 3D interface | P4 | 3 | 5 |
|  | Common 3D Commands | P4 | 3 | 5 |
|  | Term project in AutoCAD for Power system layout diagram or PCB drawing | P4 |  |  |

Verified By: Ms. Rimsha Musharraf