1. **Basic Information:**

|  |  |
| --- | --- |
| **Program Title** | Civil Engineering Department |
| **Department Offering the Program** | Civil Engineering Department |
| **Department Responsible for the Course** | Civil Engineering Department |
| **Course Title** | Civil Drawing |
| **Course Code** | CIE 201 |
| **Year/Level** | level 2 |
| **Specialization** | Major |
| **Authorization Date of Course Specification** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Teaching hours** | **Lectures** | **Tutorial** | **Practical** |
| 1 hour | 4 hour/week | - |

1. **Course Aims:**

|  |  |
| --- | --- |
| **No.** | **Aims** |
| 1 | Study drawings and projection of; steel connections, reinforced concrete structures, and irrigation structures. |

1. **Intended Learning Outcomes (ILO’S):**
2. **Knowledge and understanding:**

|  |  |
| --- | --- |
| **No.** | **Knowledge and understanding** |
| A1 | Define the concepts of drawings of civil engineering applications. |
| A3 | Recognize materials, sections and principles of projections in civil constructions |
| A6 | Identify connections in steel structures. |

1. **Intellectual Skills:**

|  |  |
| --- | --- |
| **No.** | **Intellectual Skills** |
| B10 | Create drawings of elements in civil engineering |

1. **Professional Skills:**

|  |  |
| --- | --- |
| **No.** | **Professional Skills** |
| C10 | Practice the neatness in preparing civil drawings. |

1. **General Skills:**

|  |  |
| --- | --- |
| **No.** | **General Skills** |
| D6 | Effectively manage tasks in fixed time |

**4. Course Contents:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Topics** | **lect** | **Lab.** | **Exer.** |
| 1 | Introduction to civil engineering projects (general concepts- legends and symbols – scales and drawing size – general layout and plants – longitudinal and cross sections – detailing – drawings include structural steel sections and details, culverts roof and floor plants , reinforcement details , housing details. | 8 | - | 32 |
| 2 | Autocad fundamentals of civil engineering drafting by way of computer aided drawing (CAD) software. | 4 | - | 16 |
| 3 | Basic features and capabilities of CAD software. | 2 | - | 8 |
| Total | | 14 | - | 56 |

**5. Teaching and learning methods:**

|  |  |
| --- | --- |
| **No.** | **Teaching Methods** |
| 1 | Lectures |
| 2 | Practical |
| 3 | Tutorial |
| 4 | Assignments |
| 5 | Essay |
| 6 | Group Discussion and presentation |

**6. Teaching and learning methods for disable students:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Teaching Methods** | **Reason** |
| 1 | Presentation of the course in digital material | Better access any time |
| 2 | Asking small groups to do assignments; each composed of low, medium, and high performance students. | Knowledge and skills transfer among different level of students. |

7**. Student evaluation:**

**7.1 Student evaluation method**:

|  |  |  |
| --- | --- | --- |
| **No.** | **Evaluation Method** | **ILO’s** |
| 1 | Mid Term Examination | A1, A6, B10 |
| 2 | Semester work | C10, D6 |
| 3 | Final Term Examination | A1, A3, A6, B10 |

**7.2 Evaluation Schedule:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Evaluation Method** | | **Weeks** |
| 1 | semester work | exercises an assignments | , , |
| quizzes |
| 2 | Mid Term examination | |  |
| 3 | Final term examination | |  |

**7.3 weighting of Evaluation:**

|  |  |  |
| --- | --- | --- |
| **No.** | **evaluation method** | **Weights** |
| 1 | Mid-term examination | 20% |
| 2 | Semester work | 20% |
| 3 | Final-term examination | 60% |
| TOTAL | | 100% |

**8. List of References:**

|  |  |
| --- | --- |
| **No.** | **Reference List** |
| 1 | Course notes: Lecture notes prepared and written by the lecturers |
| 2 | Essential books (text books) |
| 3 | Recommended books |
| 4 | Web sites and Periodicals |

**9. Facilities required for teaching and learning:**

|  |  |
| --- | --- |
| **No.** | **Facility** |
| 1 | Lecture classroom |
| 2 | seminar |
| 3 | White board |
| 4 | Data Show system |

**10. Matrix of knowledge and skills of the course:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Topic** | **Aims** | **Knowledge and understanding** | **Intellectual Skills** | **Professional Skills** | **General Skills** |
| 1 | Introduction to civil engineering projects (general concepts- legends and symbols – scales and drawing size – general layout and plants – longitudinal and cross sections – detailing – drawings include structural steel sections and details, culverts roof and floor plants , reinforcement details , housing details. | 1 | A1, A3, A6 | B10 | C10 | D6 |
| 2 | AutoCAD fundamentals of civil engineering drafting by way of computer aided drawing (CAD) software. | 1 | A1 , A3 , A6 | B10 | C10 | D6 |
| 3 | Basic features and capabilities of CAD software. | 1 | A1, A3 ,A6 | B10 | C10 | D6 |

**Course Coordinator:** Dr / Samer El Abd

**Head of Department:** ASS**.** Prof / khaled fawzy

**Date of Approval:** Jan 2017