1. **Basic Information:**

|  |  |
| --- | --- |
| **Program Title** | Civil **Engineering** |
| **Department Offering the Program** | Civil **Engineering** |
| **Department Responsible for the Course** | **Basic Science and Engineering** |
| **Course Title** | **Introductions to Information Technology** |
| **Course Code** | **ENG206** |
| **Year/Level** | **Level 2** |
| **Specialization** | **Major** |
| **Authorization Date of Course Specification** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Teaching hours** | **Lectures** | **Tutorial** | **Practical** |
| 2 | - | 2 |

1. **Course Aims:**

|  |  |
| --- | --- |
| **No.** | **Aims** |
| 4 | Use the techniques, skills, and appropriate engineering tools, necessary for engineering practice web design project and building networks. |

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

|  |  |
| --- | --- |
| **No.** | **Knowledge and understanding** |
| A2 | List basics of information and communication technology (ICT),student should know basic of information system and technology used like internet, smart phone, network and cloud that ease and speed processing of data. |

1. **Intellectual Skills:**

|  |  |
| --- | --- |
| **No.** | **Intellectual Skills** |
| B2 | Work creatively to select the appropriate solutions for engineering problems and system design by accepting student skill of design website and establish network. |

1. **Professional Skills:**

|  |  |
| --- | --- |
| **No.** | **Professional Skills** |
| C1 | Apply knowledge of information technology, design and engineering practice to solve engineering problems. |

1. **General Skills:**

|  |  |
| --- | --- |
| **No.** | **General Skills** |
| D4 | Demonstrate efficient IT capabilities by identifying network elements to use internet for searching and mailing. |

**4. Course Contents:**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Topics** | **Lectures** | Practical |
| 1 | Introduction to information systems | 4 |  |
| 2 | Software and hardware used in information systems | 6 | 4 |
| 3 | Communication and Networks | 4 |  |
| 4 | Computer Networking | 6 |  |
| 5 | The internet; the foundations, Resources and uses of the internet, Emphasizing practical skills for finding, Reading and authorizing materials | 4 | 4 |
| 6 | Privacy Security and Ethics | 4 |  |
| 7 | Web Design using HTML Language |  | 20 |
| Total | | 28 | 28 |

**5. Teaching and learning methods:**

|  |  |
| --- | --- |
| **No.** | **Teaching Methods** |
| 1 | Lectures |
| 2 | Discussion sessions |
| 3 | Information collection from different sources |
| 4 | Research assignment |
| 5 | Practical training/lab |

**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 | Web communication with students | Better communication with certain cases |
| 3 | Asking small groups to do assignments; each composed of low, medium and high performance students. | Knowledge and skills transfer among different levels of students |

7**. Student evaluation:**

**7.1 Student evaluation method**:

|  |  |  |
| --- | --- | --- |
| **No.** | **Evaluation Method** | **ILO’s** |
| 1 | Midterm examination | **A2 , B2, C1** |
| 2 | Semester work | **A2 , B2, C1, D4** |
| 3 | Practical Examination | **A2 , B2, C1** |
| 4 | Final term examination | **A2 , B2, C1, D4** |

**7.2 Evaluation Schedule:**

|  |  |  |
| --- | --- | --- |
| **No.** | **Evaluation Method** | **Weeks** |
| 1 | Midterm examination | **08th** |
| 2 | Semester work | **2nd ,7th,9th,13th** |
| 3 | Practical Examination | **14th** |
| 4 | Final term examination | **15th** |

**7.3 weighting of Evaluation:**

|  |  |  |
| --- | --- | --- |
| **No.** | **evaluation method** | **Weights** |
| 1 | Mid-term examination | **10%** |
| 2 | final examination | **60%** |
| 3 | Practical examination | **10%** |
| 4 | Semester work | **20%** |
|  | total | **100%** |

**8. List of References:**

|  |  |
| --- | --- |
| **No.** | **Reference List** |
| 1 | Computing essentials timothy, O' leary and linda ,2014 . |

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

|  |  |  |
| --- | --- | --- |
| **No.** | **Facility** |  |
| 1 | Lecture classroom |  |
| 2 | Presenter |  |
| 3 | White board |  |
| 4 | Data show system |  |
| 5 | Wireless internet |  |
| 6 | Sound 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 information systems | 4 | A2 | -- | -- | D4 |
| 2 | Software and hardware used in information systems | 4 | A2 | -- | -- | D4 |
| 3 | Communication and Networks | 4 | A2 | B2 | C1 | D4 |
| 4 | Computer Networking | 4 | A2 | B2 | C1 | D4 |
| 5 | The internet; | 4 | A2 | B2 | C1 | D4 |
| 6 | Privacy Security and Ethics | 4 | A2 | B2 | C1 | D4 |
| 7 | Web Design using HTML Language | 4 | A2 | B2 | C1 | D4 |

**Course Coordinator: Dr. Yosry El-Helaly**

**Head of Department: Dr.Khalid Fawzy**

**Date of Approval:**