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| Shoubra Faculty of Engineering | Model No.12 Course Specifications : Computer Applications 1 |  |
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| **University** : Benha university |

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| **Faculty** : Shoubra Faculty of Engineering |

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| **Department** : Electrical Engineering Department |

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| **1- Course Data** |
| |  |  |  |  | | --- | --- | --- | --- | | Course Code : ECE 124C | Course Title : Computer Applications 1 | Study Year : First Year | | | Specialization : |  | | | | Teaching Hours: | | | | | Lecture : 3 | Tutorial : 4 | Practical : |  | |

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| **2-  Course Aim** |
| For students undertaking this course, the aims are to: |
| |  | | --- | | 2.1- Present the evolution of the Web and its reliance on the development of the Internet. | | 2.2- Describe the basic concepts of the Web and its architecture and components. | | 2.3- Distinguish between the different Web applications. | |

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| **3- Intended Learning Outcomes of Course (ILOS)** |
| |  | | --- | | **a-  Knowledge and Understanding** | | On completing this course, students will be able to: | | |  | | --- | | a.2) Define concepts and theories of sciences, appropriate to the computer applications. | | |  | | | **b-  Intellectual Skills** |  | | At the end of this course, the students will be able to:  b.2) Select appropriate computer-based methods for analyzing problems. |  | | |  | | --- | | b.4) Think in a creative and innovative way in problem solving and design. | | b.5) Combine, exchange, and assess different ideas, views, and knowledge from a range of sources | | b.9) Select and appraise appropriate ICT tools to a variety of engineering problems | |  | |  | | | **c-  Professional Skills** |  | | On completing this course, the students are expected to be able to: |  | | |  | | --- | | c- 1 - Apply knowledge of mathematics, science, information technology, design, business context and engineering practice to solve engineering problems. | | c- 2 - Professionally merge the engineering knowledge, understanding, and feedback to improve design, product and/or services. | | c- 3 - Create and/or re-design a process, component or system, and carry out specialized engineering designs. | |  | |  | | | **d-  General Skills** |  | | At the end of this course, the students will be able to: |  | | |  | | --- | | d- 1 - Collaborate effectively within multidisciplinary team. | | d- 3 - Communicate effectively | | d- 4 - Demonstrate efficient IT capabilities. | |  | |  | | |

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| **4- Course Contents** |
| |  |  |  | | --- | --- | --- | | **No.** | **Topics** | **No. of hours** | | 1 | Basic Web aspects | 3 | | 2 | Internet Concepts | 6 | | 3 | Basic Web Applications | 6 | | 4 | Web security | 6 | | 5 | Societal Impact of the Web | 3 | | 6 | HTML & CSS | 9 | | 7 | JavaScript | 6 | |

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| **5- Teaching and Learning Methods** |
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| |  | | --- | | 5.1- Modified lectures | | 5.2- Practical training / laboratory | | 5.3- Seminar / workshop | | 5.4- Class activity | | 5.5- Case study | | 5.6- Assignments / homework | |

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| **6- Teaching and Learning Methods of Disables** |
| |  | | --- | | 6.1- |   No Thing |

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| **7- Student Assessment** |
| |  | | --- | | **a- Student Assessment Methods** | | |  |  | | --- | --- | | 1 | Assignments   to assess   knowledge and intellectual skills. | | 2 | Quiz   to assess   knowledge and intellectual skills. | | 3 | Mid-term   to assess   knowledge, intellectual skills | | 4 | Oral exam   to assess   knowledge, intellectual, professional and general skills. | | 5 | Final exam   to assess   knowledge, intellectual skills. | | |  | | | **b- Assessment Schedule** |  | | |  |  |  | | --- | --- | --- | | **No.** | **Assessment** | **Week** | | 1 | Assessment | 2,5,9,11 | | 2 | Quizzes | 4, 6, 10, 12 | | 3 | Mid-term exam | 8 | | 4 | Oral Exam | 14 | | 5 | Final exam | 15 | |  | |  | | | **c- Weighting of Assessments** |  | | |  |  | | --- | --- | | **Assessment** | **Weight** | | Midterm Examination | 10 % | | Final Term Examination | 57 % | | Oral Examination | 17 % | | Practical Examination | 0 % | | Semester work | 08 % | | Other types of assessment | 08 % | | Total | 100 % | |  | |  | | |

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| **8- List of References** |
| |  | | --- | | **a- Course Notes** | | |  | | --- | | 1- Course notes prepared by instructor. | | | **b- Books** | | |  | | --- | | 1- Loen Shklar and Richard Rosen, Web Applications Architecture: Principles, Protocols, and Practices, 1st edition, Wile, 2003 | | |

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| **- Course Coordinator:** |

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| **Course instructor : Ass. Prof/ Abdulwahab Kamel Mohamed Al\_Samak**  **- Head of Department :     Prof/ Sayed Abo-Elsood Sayed Ward** |

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| Shoubra Faculty of Engineering | Model No.11A Course Specifications : Computer Applications 1 |  |
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| **University** : Benha university |

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| **Faculty** : Shoubra Faculty of Engineering |

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| **Department** : Electrical Engineering Department |

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| **Matrix of Knowledge and Skills of the course** |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | **No.** | **Topics** | **week** | **Basic Knowledge** | **Intellectual Skills** | **Professional Skills** | **General Skills** | | 1 | Basic Web aspects | 1 | a2 | b4 | c1 |  | | 2 | Internet Concepts | 2 | a2 | b4, b5 | c1 |  | | 3 | Internet Concepts | 3 | a2 | b4, b5 | c1 |  | | 4 | Basic Web Applications | 4 | a2 | b4, b5 | c2 |  | | 5 | Basic Web Applications | 5 | a2 | b4, b5 | c2 |  | | 6 | Web security | 6 | a2 | b4, b5 | c1, c2 |  | | 7 | Web security | 7 | a2 | b4, b5 | c1, c2 |  | | 8 | Midterm Exam | 8 | a2 | b4, b5 |  |  | | 9 | Societal Impact of the Web | 9 | a2 | b2 | c1, c2 |  | | 10 | HTML & CSS | 10 | a2 | b9, b5 | c2, c3 |  | | 11 | HTML & CSS | 11 | a2 | b9, b5 | c2, c3 |  | | 12 | HTML & CSS | 12 | a2 | b9, b5 | c2, c3 |  | | 13 | JavaScript | 13 | a2 | b9, b5 | c2, c3 |  | | 14 | Oral Exam | 14 | a2 | b2,b4,b5,b9 | c1, c2,c3 | d1, d3, d4 | | 15 | Final Exam | 15 | a2 | b2,b4,b5,b9 |  |  | |

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| **- Course Coordinator: Ass. Prof/ Abdulwahab Kamel Mohamed Al\_Samak**  **- Course Instructor: Ass. Prof/ Abdulwahab Kamel Mohamed Al\_Samak** |

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| **- Head of Department :     Prof/ Sayed Abo-Elsood Sayed Ward** |

**Matrix of Course Content and ILO’s**

**Course Title**: : Computer Applications 1  **Code**: ECE 124C

**Lecture**: 3  **Tutorial** :- 4 **Practical**:-  **Total:**  7

**Program on which the course is given:** M.Sc. Electrical Engineering (Electronics and communications)

**Major or minor element of program:** Major

**Department offering the program:** Electrical Engineering Department

**Department offering the course:** Electrical Engineering Department

**Academic year / level: 2012-2013 second semester**

**Date of specifications approval:** 20/6/2010

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| **Course content** | **a2** | **b2** | **b4** | **b5** | **b9** | **c1** | **c2** | **c3** | **d1** | **d3** | **d4** |
| Basic Web aspects | ✓ |  | ✓ |  |  | ✓ |  |  |  |  |  |
| Internet Concepts | ✓ |  | ✓ | ✓ |  | ✓ |  |  |  |  |  |
| Basic Web Applications | ✓ |  | ✓ | ✓ |  |  | ✓ |  | ✓ | ✓ | ✓ |
| Web security | ✓ |  | ✓ | ✓ |  | ✓ | ✓ |  |  |  |  |
| Societal Impact of the Web | ✓ | ✓ | ✓ |  |  | ✓ | ✓ |  | ✓ | ✓ | ✓ |
| HTML & CSS | ✓ |  |  | ✓ | ✓ |  | ✓ | ✓ |  |  |  |
| JavaScript | ✓ |  |  | ✓ | ✓ |  | ✓ | ✓ |  |  |  |

**Matrix of Course Aims and ILO’s**

**Course Title**: Computer Applications 1  **Code**: ECE 124C

**Lecture**: 3  **Tutorial: -** 4  **Practical**:-  **Total:**  7

**Program on which the course is given:** M.Sc. Electrical Engineering (Electronics and communications)

**Major or minor element of program:** Major

**Department offering the program:** Electrical Engineering Department

**Department offering the course:** Electrical Engineering Department

**Academic year / level: 2012-2013 second semester**

**Date of specifications approval:** 20/6/2010

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| **Course Aims** | **a2** | **b2** | **b4** | **b5** | **b9** | **c1** | **c2** | **c3** | **d1** | **d3** | **d4** |
| Present the evolution of the Web and its reliance on the development of the Internet. | ✓ |  | ✓ |  |  | ✓ |  |  |  |  |  |
| describe the basic concepts of the Web and its architecture and components | ✓ |  | ✓ | ✓ |  | ✓ | ✓ |  | ✓ | ✓ | ✓ |
| Distinguish between the different Web applications | ✓ | ✓ | ✓ | ✓ | ✓ |  | ✓ | ✓ |  | ✓ |  |

**Course coordinator:**

**Course instructor:** Ass. Prof/ Abdulwahab Kamel Mohamed Al\_Samak

**Head of department:** Prof. Dr.Sayed Abo-elseoud Ward **Date: 30/ 7/ 2013**