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| http://euhr.edu.eg/Files/170/Logo.jpgShoubra Faculty of Engineering | Model No.12Course 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**  |
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| 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: |
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| 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)**  |
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| **a-  Knowledge and Understanding**  |
| On completing this course, students will be able to: |
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| a.2) Define concepts and theories of sciences, appropriate to the computer applications.  |

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| **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. |  |
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| 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  |

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| **c-  Professional Skills** |  |
| On completing this course, the students are expected to be able to: |  |
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| 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.  |

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| **d-  General Skills**  |  |
| At the end of this course, the students will be able to: |  |
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| d- 1 - Collaborate effectively within multidisciplinary team.  |
| d- 3 - Communicate effectively  |
| d- 4 - Demonstrate efficient IT capabilities.  |

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| **4- Course Contents**  |
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| **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** |
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| 6.1-   |

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| **7- Student Assessment**  |
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| **a- Student Assessment Methods** |
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| 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.  |

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| **b- Assessment Schedule** |  |
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| **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  |

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| **c- Weighting of Assessments** |  |
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| **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**  |
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| **a- Course Notes** |
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| 1- Course notes prepared by instructor.  |

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| **b- Books** |
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| 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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| **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**  |
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| **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**