**TEMPLATE FOR COURSE SPECIFICATION**

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| HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW |

**Course Instructor: Lecturer Dr. Mona Faeq Ali**

**COURSE SPECIFICATION**

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| This course introduces the basic concepts of computer and the skills for using computer at studying environment, library, and at home. Topics include: computer types, hardware, software, system applications, office applications, Internet access and searching, electronic communications, antiviruses applications |

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| University of Baghdad /College of Engineering | 1. Teaching Institution |
| Environmental Engineering Department | 2. University Department/Centre |
| Computer 1 EnE | 3. Course title/code |
| Annual System: They attend in electronic mode 3 hrs. a Week. | 4. Modes of Attendance offered |
| Annual | 5. Semester/Year |
| 90 hrs./ 3 hrs per week | 6. Number of hours tuition (total) |
| 2021-2022 | 7. Date of production/revision of this specification |
| **8. Aims of the Course** | |
| The main objectives of the course are:   1. Provide students with the basic concepts of computer types, hardware, and software. 2. Develop the skills of using system, office, Internet, and antiviruses applications. 3. Encourage students to communicate with others effectively to perform different   computer-based tasks using different computer applications | |

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| **9· Learning Outcomes, Teaching ,Learning and Assessment Method**   1. **Cognitive goals.**   **At the end of the year the students should gain:**  A1. Introduce students to computers and its hardware and software components  A2. Teaching students to use window7 operating system  A3. Teaching students to use the word program  A4. Teaching students to use the power point program.  A5. Teaching students to use the Excel program.  A6. Introduce students to the Internet, how to benefit from it, and what are the possibilities it provides in education and knowledge |
| **B. The skills goals special to the course**  B2 - Typing texts  B3 - Use of the Internet  B4 - Knowledge of application programs  **Teaching and Learning Methods**  1- Lectures.  2- Homework and Assignments.  3- Tests and Exams.  4- In-Class Questions and Discussions.  5- Connection between Theory and Application.  6- In- and Out-Class oral conservations. |
| **Assessment Methods**  1. Examinations, Tests, and Quizzes.  2. Student Engagement during Lectures.  3. Responses Obtained from Students, Questionnaire about curriculum and faculty member (Instructor)***.***  4***.*** Home work related to problem solving. |
| C. Affective and value goals  C1- Identify the hardware components of the computer that can be added or upgraded  C2. Learn about modern applied programs  C3. Identify new driver and computer applications  C4. Research and analytical techniques**.**  C5. Prepare students for successful careers in environmental engineering. |
| Teaching and Learning Methods  Intensive studies of regulations |
| Assessment methods |
| Case studies |
| D. General and rehabilitative transferred skills (other skills relevant to employability and personal development) |
| D1. Become more effective, independent and confident self-directed learners  D2. Improve their general skills for study and career management  D3. Articulate personal goals and evaluate progress towards their achievement  D4. An ability to identify, formulate, and solve engineering problems. |

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| **10. Course Structure** | | | | | |
| Assessment Method | Teaching  Method | Unit/Module or Topic Title | ILOs | Hours | Week |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Computer Fundamentals | 1&2 | 3 (Theo.+Lab) | 1 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Computer Fundamentals | 1 &2 | 3 (Theo.+Lab) | 2 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Computer Fundamentals | 1 &2 | 3 (Theo.+Lab) | 3 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Computer Components | 1 &2 | 3 (Theo.+Lab) | 4 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Computer Components | 1 &2 | 3 (Theo.+Lab) | 5 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Computer Components | 1,2,&3 | 3 (Theo.+Lab) | 6 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Computer Safety | 1,2,&3 | 3 (Theo.+Lab) | 7 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Software Licences | 2,3 &4 | 3 (Theo.+Lab) | 8 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Operating Systems | 2,3 &4 | 3 (Theo.+Lab) | 9 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Operating Systems | -------- | 3 (Theo.+Lab) | 10 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Ms Office | 2,3 &4 | 3 (Theo.+Lab) | 11 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Ms Office | 3 &4 | 3 (Theo.+Lab) | 12 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Ms Office | 2,3 &4 | 3 (Theo.+Lab) | 13 |
| --------------------- | Electronic | Review | 2,3 &4 | 3 (Theo.+Lab) | 14 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Ms Power Point | 2,3 &4 | 3 (Theo.+Lab) | 15 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Ms Power Point | 2,3 &4 | 3 (Theo.+Lab) | 16 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Ms Power Point | 2,3 &4 | 3 (Theo.+Lab) | 17 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Project in P.P | .2,3 &4 | 3 (Theo.+Lab) | 18 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Ms Excel | 2,3 &4 | 3 (Theo.+Lab) | 19 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Ms Excel | 2,3 &4 | 3 (Theo.+Lab) | 20 |
| ------------------ | Electronic | Examination | ------ | 3 (Theo.+Lab | 21 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Equations in Excel | 5 | 3 (Theo.+Lab) | 22 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Equations in Excel | 5 | 3 (Theo.+Lab) | 23 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Preparing Charts | 5 | 3 (Theo.+Lab) | 24 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Preparing Charts | 5 | 3 (Theo.+Lab) | 25 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Engineering Applications | --------- | 3 (Theo.+Lab) | 26 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Engineering Applications |  | 3 (Theo.+Lab) | 27 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Project in P.P |  | 3 (Theo.+Lab) | 28 |
| Questions during the lectures ,quiz, exam, present in the class | Electronic | Review | 1,2,3,4&5 |  | 29 |
| ---------------- | Electronic | Examination |  |  | 30 |

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| 11. Infrastructure | |
| 1. Gary B. shelly, Steven M. Freund, Misty E. Vermaat ,Introduction to Computers, 2011, ISBN-13:978–1-4390–8131–0 | 1. Books required reading: |
| **اساسيات الحاسوب وتطبيقاته المكتبيه**  **أ.م.د. زياد محمد عبود، أ.د. غسان حميد عبدالمجيد، أ.م.د. أمير حسين مراد، م. بلال كمال احمد** | 1. Main references (sources) |
| 1. Yale Patt, Sanjay Patel, Introduction to Computing Systems: From bits & gates to C& beyond , 2004, ISBN‐0‐07‐121503‐4 2. Irene Joos, Ramona Nelson, Marjorie J. Smith, Introduction To Computers For Healthcare Professionals , 2010, ISBN‐13:978–0‐7637–6113–4 | A- Recommended books and references (scientific journals, reports…). |
| 1. <https://www.youtube> 2. https://www.sciencedirect.com/book/ 3. https://www.nature.com/articles/ | B-Electronic references, Internet  sites |

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| 12. The development of the curriculum plan  Not to relay on traditional examinations but the creation of reports following the reading of textbooks. These reports are validated and transformed into academic credits for graduation purposes. |