# Course Description TemplateCourse Description

This course description provides a concise summary of the main features of the course and the expected learning outcomes for the student to achieve, demonstrating whether they have made the most of the available learning opportunities. It is essential to link this description with the program description.

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| 1. ****Educational Institution**** | **Shatt Al-Arab University** |
| **2. Scientific Department** | **Computer Science** |
| **3. Module Code** | **Systems Analysis and Design CS204** |
| **4. The available attendance types** |  **Mandatory** |
| **5. Year** | **2024 - 2025** |
| **6. SWL (hr/sem)** | **150** |
|  **7. Date** | **2024** |
| **8. Module Aims:** THIS COURSE WILL PROVIDE A BASIC UNDERSTANDING OF THE METHODS AND TECHNIQUES OF DEVELOPING A SIMPLE TO MODERATELY COMPLEX WEB SITE. USING THE CURRENT STANDARD WEB PAGE LANGUAGE, STUDENTS WILL BE INSTRUCTED ON CREATING AND MAINTAINING A SIMPLE WEB SITE. AFT ER THE FOUNDATION LANGUAGE HAS BEEN ESTABLISHED, THE AID OF AN WEB EDITOR WILL BE INTRODUCED. THIS COURSE WILL PROVIDE A RIGOROUS TREATMENT OF OBJECT - ORIENTED CONCEPTS (DESIGN AND IMPLEMENTATION OF OBJECTS, CLASS CONSTRUCTION AND DESTRUCTION, ENCAPSULATION, INHERITANCE, AND POLYMORPHISM) USING JAVA AS AN EXAMPLE LANGUAGE. |

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| **9. Module Learning Outcomes** DEVELOPMENT OF SOUND PROGRAMMING AND DESIGN SKILLS, PROBLEM SOLVING AND MODELING OF REAL-WORLD PROBLEMS FROM SCIENC E, ENGINEERING, AND ECONOMICS USING THE OBJECT-ORIENTED PARADIGM |
| **Learning and Teaching Strategies** |
| Type something like: The main strategy that will be adopted in delivering this module is to encourage students’ participation in the exercises, while at the same time refining and expanding their critical thinking skills. This will be achieved through classes,Interactive tutorials and by considering type of simple experiments involving some sampling activities that are interesting to the students. |
| **Module Evaluation** |
| **Quizzes**10% (10)**Assignments**10% (10)**Report**10% **Projects / Lab.**10% **Midterm Exam**10% **Final Exam**50%  |
| 10. Course Structure |

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| **Weeks** | **Study Hours** | **Subject** | **Intended Learning Outcomes** |  |
|  **Week1** |  | **Introduction to Systems Analysis** |  |  |
|  **Week2** |  | **Planning** |  |  |
|  **Week3** |  | **Design** |  |  |
| **Week4**  |  | **Systems development methodologies** |  |  |
| **Week5** |  | **Structured Design( SSADM)** |  |  |
| **Week6** |  | **Rapid Application Development (RAD)** |  |  |
| **Week7** |  | **Prototyping** |  |  |
| **Week8** |  | **Agile Development** |  |  |
| **Week9** |  | **Selecting appropriate development methodology** |  |  |
| **Week10** |  | **Systems Analyst** |  |  |
| **Week11** |  | **Project Management** |  |  |
| **Week12** |  | **Estimate Required Effort, Estimate Time Required, Estimate the Number of Staff, Exercises** |  |  |
| **Week13** |  | **Creating and Managing the Work plan** |  |  |
| **Week14** |  | **Diagram,** Gantt Chart, Pert Chart |  |  |
| **Week15** |  | Critical path method (CPM), Staffing the  |  |  |

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| 11. Recommended Books and References |
| System Analysis Design UML Version 2. An Object- Oriented Approach 3rd Edition, Alan Dennis | Prescribed Textbooks |
|  | Main References (Sources) |
| System Analysis Design UML Version 2. An Object- Oriented Approach 3rd Edition, Alan Dennis | Recommended References |
| <https://www.edouniversity.edu.ng/oerrepository/articles/>system\_analysis\_and\_design\_lecture\_note.pdf | Electronic References |

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| 12.خطة تطوير المقرر الدراسي |
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