**Course Specification**

**(CS 498 Project**)

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| *University:* | Helwan University |
| *Faculty:* | Faculty of Computers & Information |
| *Department:* | ***Computer science*** |

**1. Course Data**

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| --- | --- |
| **Code:** | **CS 498** |
| **Course title:** | Project |
| **Level:** | 1 |
| **Specialization:** | Computer Science |
| **Credit hours:** | 6 hours |
| **Number of learning units (hours):**  | (3) theoretical (6) practical |

**2. Course Objective**

Determined by the supervisor of the project

**3. Intended Learning Outcomes:**

 **A- Knowledge and Understanding:**

A8. Apply Programming to solve Problems.

A20. Extrapolate the engineering process of software production.

* **Intellectual Skills**

B1. Recognize and assemble components.

B7. Create computer algorithms to solve different problems.

B9. Design and implement Programming methods.

B11. Plan, conduct and present Software Projects.

B14. Develop the act of getting people together to accomplish desired goals and objectives (Management skills).

B15. Focus, gather information, integrate, and evaluate the data for Problem Solving.

B16. Work effectively, independently or as a part of a team.

B20. Design software solutions to real world problems.

* **Professional and Practical Skills**

C1. Choose the appropriate Programming Language.

C4. Lead a team and Work in a team.

C5. Acquire information independently.

C6. Present effectively in a Seminar.

C7. Prepare Technical Reports.

C8. Investigate and use of Information Technology skills.

C9. Design computer-based systems.

C16. Deploy the tools for software projects documentation.

C17. Discover efficient design of human-computer interfaces.

* **General and Transferable Skills**

D1. Practice Communication skills in English.

D2. Practice Independent Learning techniques.

D6. Use Modeling capability in software projects.

D8. Practice Management Skills.

D11. Clarify Ideas formulation and presentation.

D13. Practice Designing skills in software projects.

D14. Practice Engineering skills for software development.

**4. Course contents**

Determined by the supervisor of the project

**Mapping contents to ILOs**

This mapping is dependant on the topic of the project

**5. Teaching and Learning Methods**

**-** Class Lectures

**-** Paper readings

**6. Teaching and Learning Methods for students with limited capability**

 Using data show

 e-learning management tools

**7. Students Evaluation**

**a) Used Methods**

Lab exam

Assignments

Lab work

Programming projects

**b) Time**

Assessment 1: Test 1 Week 4

Assessment 2: Test 2 Week 7

Assessment 3: Midterm Exam Week 10

Assessment 4: Practical Exam Week 14

Assessment 5: final written exam Week 16

**c) Grades Distribution**

Mid-term Examination 20 %

Final-Year Examination 50 %

Semester Work 20 %

Practical Exam 10%

 Total 100%

 Any formative only assessments

**List of Books and References**

**a) Notes**

Course Notes

- Handouts

**b) Mandatory Books**

 **Title:**

 **Author(s):**

 **Publisher:**

 **ISBN:**

**c) Suggested Books**

**d) Other publications**

**Course Coordinator:**  **All the department stuff**

**Chairman of the Department:** Prof. dr. Iraqy Khalifa