**Course Specification**

**(**IT 496 Selected topics in Information Technology IV**)**

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| **University:** | Helwan University |
| **Faculty:** | Faculty of Computers & Information |
| **Department:** | Information Technology |

**1. Course Data**

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| **Code:** |  **IT 496**  |
| **Course title:** |  Selected topics in Information Technology IV |
| **Level:** | 3 |
| **Specialization:** | Information Technology |
| **Credit hours:** | 3 hours |
| **Number of learning units (hours):**  | ( 3) theoretical () practical |

**2. Course Objective**

**3. Intended Learning Outcomes:**

1. **Knowledge and Understanding**

A32. Recognize advanced IT systems structures and principles.

1. **Intellectual Skills**

B3. Devise a solution for IT problems.

B5. Differentiate patterns, components and relation in modeling data and information

B12. Create Innovative solutions.

B19. Perform Analytical Thinking.

B23. Formulate and implement IT systems.

1. **Professional and Practical Skills**

C1. Choose IT solutions based on IT tools and techniques.

C20. Solve analytical problems.

C21. Choose appropriate Data Modeling.

C24. Devise solutions to problems.

1. **General and Transferable Skills**

D3. Use different Problem Solving techniques.

D11. Show Ideas formulation and presentation.

D13. Use Designing skills to solve problems effectively.

D14. Support Engineering skills.

**4. Course contents**

 Determined by the department

 **Mapping contents to ILOs**

 Determined by the department

**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**

1. **Used Methods**
* Written Exams
* Assignments.
1. **Time**

Assessment 1: Test 1 Week 4

Assessment 2: Test 2 Week 7

Assessment 3: Midterm Exam Week 10

Assessment 5: final written exam Week 16

1. **Grades Distribution**

Mid-term Examination 20 %

Final-Year Examination 60 %

Semester Work 20 %

 Total 100%

Any formative only assessments

**List of Books and References**

**a) Notes**

* Course Notes
* Handouts

**b) Mandatory Books**

**c) Suggested Books**

**d) Other publications**

 - Periodicals, Web Sites … etc

**Course Coordinator: Dr. Mahmoud El-kholy**

**Chairman of the Department: Prof. Dr.**