**Course Specification**

 **(**IS 313Inf.Storage and Retrieval**)**

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

**1. Course Data**

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| **Code:** | **IS 313**  |
| **Course title:** | Inf.Storage and Retrieval |
| **Level:** |  |
| **Specialization:** | General |
| **Credit hours:** | 3 hours |
| **Number of learning units (hours):**  | ( 3) theoretical ( ) practical |

**2. Course Objective**

**3. Intended Learning Outcomes:**

**Knowledge and Understanding**

A9. Apply the Problem Solving Techniques.

A10. Apply the principles of Information Technologies.

A15. Distinguish different Information Systems designs.

A29. Clarify advanced topics in Information engineering

**B. Intellectual Skills**

1. B7. Create computer algorithms to solve different problems.

**C. Professional and Practical Skills**

C1. Design methodologies.

C3. Deploy skills for Information Management, Organization and Retrieval.

C7. Develop and use DB systems.

**D. General and Transferable Skills**

D9. Follow Logical Thinking in real time problem solving.

D10. Follow Critical and Analytical Thinking.

**4. Course contents**

**Mapping contents to ILOs**

**5. Teaching and Learning Methods**

Lectures

Exercises

Case Studies

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

Using data show

e-learning management tools

**7. Students Evaluation**

**a) Used Methods**

Written Exams to assess Concepts related to Operations research and Papers on case studies shall be submitted by the students during this course.

**b) Time**

Assessment 1: Test1 Week 4

Assessment 2: Test 2 Week 7

Assessment 3: Midterm exam Week 10

Assessment 4: final written exam Week 14

**c) Grades Distribution**

Mid-Term Examination 20%

Final-term Examination 60%

Other types of assessment 20 %

 Total 100%

Any formative only assessments

**List of Books and References**

**a) Notes**

Course Notes

**b) Mandatory Books**

**c) Suggested Books**

**d) Other publications**

**Course Coordinator:**

**Chairman of the Department:**