**Course Specification**

(IS 441 Intelligent Information Systems)

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

**1. Course Data**

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| --- | --- |
| **Code:** | **IS 441** |
| **Course title:** | Intelligent Information Systems |
| **Level:** | 3 |
| **Specialization:** | Information systems |
| **Credit hours:** | 3 hours |
| **Number of learning units (hours):** | (3) theoretical (2) tutorial |

**2. Course Objective**

This course covers the basic fundamentals of Decision Support Systems to introduce students to the importance of DSS and to acquaint them with the tools for building the systems.

**3. Intended Learning Outcomes:**

1. **Knowledge and Understanding**

A18. Recognize Decision Support techniques.

1. **Intellectual Skills**

B8. Gather and assess relevant information, using abstract ideas to interpret it effectively.

B21. Develop innovative designs.

1. **Professional and Practical Skills**

C1. Design methodologies.

C7. Develop and use DB systems.

1. **General and Transferable Skills**

D9. Follow Logical Thinking in real time problem solving.

D10. Follow Critical and Analytical Thinking.

**4. Course contents**

|  |  |  |  |
| --- | --- | --- | --- |
| **Topic** | **No. of hours** | **Lecture** | **Tutorial/ Practical** |
| **Information and decision-making - computer support for managers** | **6** | **2** | **2** |
| **Use of models in decision-making** | **6** | **2** | **2** |
| **Decision support systems - definition and structure** | **6** | **2** | **2** |
| **Collaboration, communication, enterprise decision support systems, and knowledge management** | **6** | **2** | **2** |
| **DSS and intelligent systems** | **6** | **2** | **2** |
| **Implementation, integration and future directions** | **6** | **2** | **2** |

**Mapping contents to ILOs**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Topic | Intended Learning Outcomes (ILOs) | | | |
| Knowledge and understanding | Intellectual Skills | Professional and practical skills | General and Transferable skills |
| **Information and decision-making - computer support for managers** | A18 |  |  |  |
| **Use of models in decision-making** |  |  | C7 |  |
| **Decision support systems - definition and structure** | A18 | B8 |  |  |
| **Collaboration, communication, enterprise decision support systems, and knowledge management** |  | B21 | C1,C7 |  |
| **DSS and intelligent systems** | A18 |  |  | D9,D10 |
| **Implementation, integration and future directions** |  |  |  |  |

**5. Teaching and Learning Methods**

Class Lectures

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

Using data show

e-learning management tools

**7. Students Evaluation**

**a) Used Methods**

assignments

mini projects

**b) Time**

Assessment 1: Test 1 Week 4

Assessment 2: Test 2 Week 7

Assessment 3: Midterm Exam Week 10

Assessment 4: project ---

Assessment 5: final written exam Week 16

**c) Grades Distribution**

Mid-term Examination 15 %

Final-Year Examination 70 %

Semester Work 15 %

Project 0%

Total 100%

Any formative only assessments

**List of Books and References**

**a) Notes**

Course Notes

Handouts

**b) Mandatory Books**

- Turban, E & Aronson, J 2005, *Decision support systems and intelligent systems*, 7th edn, Prentice Hall, Upper Saddle River, New Jersey.

**c) Suggested Books**

**d) Other publications**

**Course Coordinator:**  Dr. Ayman Khedr

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