**Course Specification**

**(**IT 431 Virtual Reality**)**

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

**1. Course Data**

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| **Code:** |   **IT 431**  |
| **Course title:** | Virtual Reality |
| **Level:** | 1 |
| **Specialization:** | General |
| **Credit hours:** | 3 hours |
| **Number of learning units (hours):**  | ( 3) theoretical (2 ) practical |

**2. Course Objective**

**3. Intended Learning Outcomes:**

1. **Knowledge and Understanding:**

A13. Identify the basics of multimedia systems.

A17. Clarify Internet-based application.

 A31. Describe the basics of Computer Graphics.

1. **Intellectual Skills**

B3. Devise a solution for IT problems.

B8. Restrict design solutions.

B13. Perform problem analysis

1. **Professional and Practical Skills**

C21. Choose appropriate Data Modeling.

C23. Use of Programming skills.

C27. Work efficiently with software systems.

1. **General and Transferable Skills**

D13. Use Designing skills to solve problems effectively.

D14. Support Engineering skills.

**4. Course contents**

**Mapping contents to ILOs**

**5. Teaching and Learning Methods**

**-** Class Lectures

**-** Highly lab-based courses

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

* Using data show
* e-learning management tools

**7. Students Evaluation**

1. **Used Methods**

- Lab exam

- Assignments

- Lab work

 - Written exams

**b) Time**

Assessment 1: Test1 Week 4

Assessment 2: Test 2 Week 7

Assessment 3: Midterm exam Week 10

Assessment 4: Practical exam Week 12

Assessment 5: final written exam Week 14

**c) Grades Distribution**

Mid-term Examination 30 %

Final-Year Examination 50 %

Semester Work 10 %

Practical Exam 10 %

 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: Prof. Dr.**

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