**Course Specification**

(**CS 495 Selected topics in computer science III)**

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

**1. Course Data**

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| --- | --- |
| **Code:** | **CS 495**  |
| **Course title:** | Selected topics in computer science III |
| **Level:** | 4 |
| **Specialization:** | Computer Science |
| **Credit hours:** | 3 hours |
| **Number of learning units (hours):**  | (3) theoretical |

**2. Course Objective**

Determined by the department.

**3. Intended Learning Outcomes:**

**2 – Intended Learning Outcomes of Course (ILOs)**

**A- Knowledge and Understanding:**

A7. Define the basics of Computer Systems.

A27. Clarify advanced topics in Computer Science.

* **Intellectual Skills**

B3. Develop Analytical Skills.

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

B9. Design and implement Programming methods.

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

B19. Devise a solution to practical problems.

* **Professional and Practical Skills**

C5. Acquire information independently.

C6. Present effectively in a Seminar.

C8. Investigate and use of Information Technology skills.

* **General and Transferable Skills**

D3. Use different Problem Solving techniques.

D4. Follow Analytical Thinking.

D5. Follow Creative Thinking.

D11. Clarify Ideas formulation and presentation.

D13. Practice Designing skills in software projects

**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**

**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: final written exam Week 16

**c) 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**

 **Title:**

 **Author(s):**

 **Publisher:**

 **ISBN:**

**c) Suggested Books**

**d) Other publications**

**Course Coordinator:** Prof. dr. Iraqy Khalifa

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