



**Ministry of Higher Education and Scientific Research**

**Mustansiriyah University /College of Science**

**Department of computer**

**(الخطة الدراسية للمساق)**

**Course Plan**

**Course No.:**  **Time Division:** 2 hour

**Course Name: computer organization Semester & Year: First, 2022 / 2023**

**Course Website:**

**Course Intended Outcomes:**

**At the end of this course, students will be able to write programs in assembly language using emulator 8086 with details shown in the description on the timing table below.**

**Course Outline:**

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| **Week** | **Description depends on the Timing table (Theoretical & Practical)** |
| **1** | Numbering system, 8086 architecture |
| **2** | Emulator 8086 with all details of how to write and execute programs |
| **3** | Main memory, data transfer instructions ( MOV inst.) |
| **4** | Logical & physical address |
| **5** | Data transfer instructions (XCHG inst.) , variables in assembly |
| **6** | Arrays, constants |
| **7** | First exam |
| **8** | Arithmetic and logic instructions |
| **9** | First group instruction ( add, sub) |
| **10** | (Cmp) for comparing 2 values, (and), (test) instructions |
| **11** | OR AND XOR |
| **12** | Third group instructions |
| **13** | INC, DEC and their effect on flags |
| **14** | NOT , NEG and their effect on flags |
| **15** | Second exam |

**Marking:**

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| **First Semester** | | | | **Final Exam** |
|  |  | **Practical** | **Activity** |  |
|  |  | **12** | **2** | **15** |

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**Instructor(s) information [معلومات الأستاذ]**

**Section: (Mathematics) ; Lecture Room:[ ] , ; Office No.: ( )**

**Instructor's Name:** **Lecturer Khlood Ibraheem**

**E-Mail**: *khlood.cs@gmail.com*

**Office Hours : Sun.:[ 10 : 00 – 12 : 00 ]**

**Tue.:[ 10 : 10 – 1 : 00 ]**

**NOTES:**

**-Office Hour:Other office hours are available by appointment.**

**-The content of this syllabus not be changed during the current semester.**

**Lecturer Signature Chairman Signature**