COMPUTER ARCHITECTURE 1 COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This Course Specification provides a concise summary of the main features of the course and the learning outcomes that a typical student might reasonably be expected to achieve and   demonstrate if he/she takes full advantage of the learning opportunities that are provided. It should be cross-referenced with the programme specification.

1. Teaching Institution	Baghdad University / College of Science for Women
2. University Department/Centre	Department of Computer Science
3. Course title/code	Computer Architecture1/ ٢٠٨CA1
4. Programme(s) to which it contributes	
5. Modes of Attendance offered	Actual attendance and There is no real presence of distance learning by applicable laws.

6. Semester/Year	Second year / Semester I
7. Number of hours tuition (total)	60 hours(30 hours Theoretical,30 hours practical
8. Date of production/revision of this specification	18/6/2016

9. Aims of the Course
This article aims to enable the student to identify the internal structure of the microprocessor, and to identify the method of accomplish CPU functions and how communication with memory addresses in the computer's memory, and get knowledge of the different CPU versions.

10· Learning Outcomes, Teaching ,Learning and Assessment Methode

U- Knowledge and Understanding
A1. identify to Introduction the structure of modern computer systems and the emphasis on the relationship between the various components, peripherals and Tusiladtha

A2. The development of modern computer systems and memory organization

A3. identify to Introduction the group directives

A4. identify to Introduction the structure of the CPU and the unity of the account

A5. identify to Introduction the regulation and control unit and its work

A6. Identify alternative architectures computers A2.

B. Subject-specific skills
B1. Building Instruction Set Architecture ISA
B2. Computer Organization
B3. Implementation

Teaching and Learning Methods

Give printed lecturer from modern variety of sources direct questions for the students to see how they interact and keep them attentive along lessons.

Assessment methods

-Laboratory tests on the computer is written to enable the student to the solution without a computer -Monthly and quarterly test

C. Thinking Skills
C1. Introducing a range of solutions to the same problem, discuss and determine   how best solution with surrounding defects Other roads.
C2. Put forward solutions contain inaccuracies and identifying these mistakes After discussion and processing.

C3. Ask questions during the lecture, which will be replaced competition among students to encourage them to participate And thinking properly.

Teaching and Learning Methods

Discussions that arise in the course and try to involve the largest possible number of students, and touched on things and discussed the details of a substantive debate and targeted.

•Education: give printed lecturer from modern variety of sources

•Education: using smart blackboard to the goal of teaching students and explain the steps the solution and extraction results

•Education: resolving some questions, with intent to contain errors and make students extracting error

•Learning: asking questions and inquiries and make the student turn into a teaching explanation and solution on the blackboard at that point

•Learning: questions directly and gradually all students to learn the extent of interaction and the rest to be paid attention to

•Learning: Each specific group to explain its interaction between students with questions and answers and provide an environment that enables the student to lecture management or debate

Assessment methods

- Sudden quizzes.
- Performance of homework.
- Ask questions during a sudden extra ordinary explain the material and reward the student who answers them.
- Laboratory tests on the computer is written to enable the student to the

solution without a computer
- Monthly tests.

D. General and Transferable Skills (other skills relevant to employability and personal development)

D1. Prepare reports on specific topics and in groups

D2. Alert students to errors in their answers oral and discussed by the rest of the students

D3. Alert students to errors in their answers written and clarified

D4. giving leadership discussion administration to the group and enable them
    to lead and manage the dialogue

Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
			11. Course Structure		
1	٤	Introduction to microprocessors and microcompuiter	Introduction to microprocessors and microcompuiter		
2	٤	General architecture of a microcomputer system	General architecture of a microcomputer system		
3	٤	Cpu architecture	Cpu architecture		
4	٤	The intel 8086 microprocessor	The intel 8086 microprocessor		
5	٤	8086 instruction set	8086 instruction set		
6	٤	8086 instruction set	8086 instruction set		
7	٤	8086 instruction set	8086 instruction set		
8	٤	8086 instruction set	8086 instruction set		
9	٤	Addressing mode	Addressing mode		
10	٤	8086 pin assignment	8086 pin assignment		

11	٤	Exam	Exam		

12. Infrastructure	
Required reading: · CORE TEXTS · COURSE MATERIALS · OTHER	The 8088 and 8086 Microprocessor ,forth edition ,2003
Special requirements (include for example workshops, periodicals, IT software, websites)	Software of Pascal programming language
Community-based facilities (include for example, guest Lectures , internship , field studies)	

13. Admissions	
Pre-requisites	Computer organization
Minimum number of students	Depending on the size of the classroom, according to the division of the group.
Maximum number of students	Depending on the size of the classroom, according to the division of the group