Ministry of Higher Education and Scientific Research

Supervision and Scientific Evaluation Body

Quality Assurance and Academic Accreditation Office

Course Description Sample

Subject: -----Architecture and assembly language------

This course description provides a brief survey of the most important characteristics, expected learning output, showing whether students have made full use f the learning opportunities. These characteristics have to be matched with the description of the program.

1. Educational Institution	Shatt Al-Arab University College
2. Department / Center	Computer science
3. Course Title /Code	architecture and assembly language
4. Lecturer Name	Asst. prof. Dr. Mazin Abdulelah Alawan
5. Type of Teaching	Attendance
6. Academic Year /Term	Year
7. Total No. of Teaching Hours	60
8. Date f Preparing this Course	28/9/2022
Description	

9. Course Objectives

a. Empowering the 90 students of the second stage of the Computer Science
Department in the morning and evening studies.

- b. Understand the structure of microprocessors
- c. the instructions of assembly programming language.

10. Course Output, Methodology and Evaluation

(A) Cognitive Objectives

- A1- Knowing the different types of recorders
- A 2- Studying the internal structure of memory and how to deal with memory sites
- A3- Study of paths, vectors and machine language
- A4- Studying assembly language directives
- A5- Memory addressing
- A6- Convert instructions into machine language

(B) Skill Objectives Related to the Program:

- B1 Study assembly language directives
- B2 Addressing memory
- B3 Study paths, vectors and machine language

Methods of Teaching and Learning

- a. Using already- prepared lectures.
- b. Using up-to-date data shows.
- c. Homework
- d. Adopting group discussions.

Methods of Evaluation

- a. Oral tests
- b. Monthly tests
- c. Daily quizzes
- d. Students' Regular Attendance

(C) Sentimental and Value Objectives

C1- Introducing the 8086/8088 . Personal Computer Processor				
C2- Study of the internal structure				

Methods of Teaching and Learning

- a. Lectures on university instructions.
- b. Educational guidance lectures.
- c. Continuous directing.
- d. Visiting State and private institutions.
- e. Showing practical cases.

Methods of Evaluation

- a. Daily quizzes.
- b. Classroom discussions and commitment to ethics and sublime values.
- c. Special marks for class activities.
- d. Monthly and quarterly evaluation.

D) General and Qualitative Skills (other skills related to the ability of employment and personal development)

- D1- Studying the internal structure of memory and how to deal with memory sites
- D2- Study paths, vectors and machine language
- D 3- Studying assembly language directives

11. Course Structure

Week	No of	Required Learning	Title of Subject	Teaching	Evaluation
	Hours	Output		Method	
1	2	Processor architecture		- lectures	- oral tests
				- case study	-questions
				-discussions	

2	2		- lectures	- oral tests
_	_	Processor software		
		model	- case study	-questions
3	2		-discussions	
3	2		- lectures	- oral tests
		memory addressing	- case study	-questions
	_		-discussions	
4	2		- lectures	- lectures
		registers	- case study	- case study
			-discussions	-discussions
5	2		- lectures	- lectures
		Flag register	- case study	- case study
			-discussions	-discussions
6	2	Marray address	- lectures	- lectures
		Memory address generation	- case study	- case study
		generalien	-discussions	-discussions
7	2		- lectures	- lectures
		memories	- case study	- case study
			-discussions	-discussions
8	2		- lectures	- lectures
		Execute the instruction	- case study	- case study
		Indiadaon	-discussions	-discussions
9	2		- lectures	- lectures
		buses	- case study	- case study
			-discussions	-discussions
10	2	Introduction to	- lectures	- lectures
		assembly language	- case study	- case study
		programming	-discussions	-discussions
11	2		- lectures	- lectures
		Directives	- case study	- case study
			-discussions	-discussions
12	2		- lectures	- lectures
		Addressing mode	- case study	- case study
			-discussions	-discussions
13	2	Convert assembly	- lectures	- lectures
		language instruction to	- case study	- case study
		machine language	-discussions	-discussions
14	2	Convert machine	- lectures	- lectures
		language		

		instruction into	- case study	- case study
		assembly language	-discussions	-discussions
15	2	assembly language	- lectures	- lectures
		instructions mov .	- case study	- case study
		instruction	-discussions	-discussions
	2	Assembly language	- lectures	- oral tests
16		instructions xchg.	- case study	-questions
		instruction	-discussions	
	2	Assembly language	- lectures	- oral tests
17		instructions push	- case study	-questions
		and pop instruction	-discussions	
	2	Assembly language	- lectures	- oral tests
18		instructions in and	- case study	-questions
		out instructions	-discussions	
	2	Assembly language instructions	- lectures	- lectures
19		Boolean	- case study	- case study
		instructions	-discussions	-discussions
	2	Assembly	- lectures	- lectures
20		Language Instructions Flip	- case study	- case study
		Instruction	-discussions	-discussions
	2	Assembly Language	- lectures	- lectures
21		Instructions	- case study	- case study
		Rotation	-discussions	-discussions
	2	Instructions Assembly	lasturas	lasturas
22	2	Language	- lectures	- lectures
22		Instructions	- case study -discussions	- case study -discussions
	2	addition Instruction Assembly language	+	
23	2	instructions	- lectures	- lectures
23		Subtraction	- case study -discussions	case studydiscussions
	2	instruction Assembly	- lectures	- lectures
	2	Language		
24		Instructions	- case study -discussions	- case study -discussions
		Multiplication Instruction	-015005510115	-415645510115
	2	Assembly	- lectures	- lectures
25		Language Instructions	- case study	- case study
		Division Instruction	-discussions	-discussions
26	2	Assembly language	- lectures	- lectures

		instructions comparison instruction	case studydiscussions	- case study -discussions
27	2	Assembly language instructions Unconditional jump instruction	lecturescase studydiscussions	lecturescase studydiscussions
28	2	Assembly language instructions modal jump instruction	lecturescase studydiscussions	lecturescase studydiscussions
29	2	Assembly language instructions Rotation instruction	lecturescase studydiscussions	lecturescase studydiscussions
30	2	Assembly language instructions lahf . instruction	lecturescase studydiscussions	lecturescase studydiscussions

12.Infrastructure

a. Textbooks	تنظيم وعمارة الحاسوب
b. References	معمارية الحاسوب
c. Recommended books and periodicals (journals, reports, etc.)	كتاب معمارية الحاسوب للمهندس معاذ الخضر
d. Electronic references, internet websites, etc	google

13. The Plan of Improving the Course

1- Some deletions and additions can be made to the vocabulary in the course, for example, the way the control unit works and the methods of managing recent memory

2- Other textbooks can be added