جامعة وارث الانبياء / كلية الهندسة

Course Description Form

1. Course Name:				
Computer programming III				
2. Course Code:				
CE216				
3. Semester / Year:				
First semester/ 2024-2025				
4. Description Preparation Date:				
23-9-2024				
5. Available Attendance Forms:				
Lecture are in person at the university only				
6. Number of Credit Hours (Total) / Number of Units (Total)				
Number of study hours 4 / Number	of units 2			
7. Course administrator's name (mention all, if more than one name)				
Name: Israa Mahdi Kadhim				
Email: israa.mahdi@uowa.edu.iq				
8. Course Objectives				
Course Objectives	 Introducing students to the use of programm in the FORTRAN language in enginee applications. Identify the symbols and variables of FORTRAN language. Solving different equations by designing spe programs in the FORTRAN language. Input and output different values us programming. Implementation of various functions us programming. How to insert matrices of all kinds and t mathematical operations. 			

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				 Solving FORTF Giving above applica compute 	g mathematical RAN language. students pract topics through p ation by execu iter.	equations using ical experience for rractical ting programs on	
9. Tea	9. Teaching and Learning Strategies						
Strategy	Th en tir ac of in	The main strategy that will be adopted in delivering this module is encourage students' participation in the exercises, while at the sa time refining and expanding their critical thinking skills. This will achieved through classes, interactive tutorials and by considering ty of simple experiments involving some sampling activities that interesting to the students.					
10. Cours	se Structu	ire					
Week	Hours	Required Learning Outcomes	Unit or	subject name	Learning method	Evaluation method	
16	4	A- Cognitive objectives -1Self-learning method -2The student's ability to learn programming languages -3Using programming language in scientific subjects -4Urging students to rely on themselves in solving various mathematical problems using the calculator and engineering programs	1 	ntroduction (Fortran & Types of Variables Input statements Output statements Format statements Arithmetic an ogic operator Data statements Control statements	 1- Lectures 2- Homeword 3- Exams 4-Questions and discussions class 	 Exams and te 2-Student participation during lectures 3-Student responses to questionnaire about curriculum and faculty member 4-Extracurricula activities 	

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8	Do Loop				
	statements				
9	Nested Do				
	Loops				
10	Arrays				
11	Matrices				
12	Internal				
	functions				
13	External				
▲	functions				
14	Subroutines				
15	Graphics				
11. Course Evaluation					
1- Exams and tests					
2- Student participation during lectures					
3- Student responses to a questionnaire about the curriculum and the faculty member					
4- Extracurricular activities					
12. Learning and Teaching Resources					
Required textbooks (curricular books, if any)	Computer programming in FORTRAN and 95", by V. Rajaraman.				
Main references (sources)					
Recommended books and references (scientific	Introduction to Fortran 90				
journals, reports)	Engineers and Scientists by Larry				
2017	Nyhoff, Sanford Leestma.				
	• FURIKAN 90 IOF Scientists a Engineers by Brian D Hahn				
Electronic References, Websites					

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