TEMPLATE FOR COURSE SPECIFICATION

HIGHER EDUCATION PERFORMANCE REVIEW: PROGRAMME REVIEW

COURSE SPECIFICATION

This course focuses on the fundamentals of programming and the basics of the C language. This semester covers topics including variables, input/output, conditional statements, loops, arrays, functions, pointers, arrays, strings, structures, and reading/writing files.

1. Teaching Institution	Al-Nahrain University/ College of Science			
2. University Department/Centre	Computer Science			
3. Course title/code	C-Language			
4. Modes of Attendance offered	Attending			
5. Semester/Year	First Semester/ 2022-2023			
6. Number of hours tuition (total)	5 a week (2 Theoretical/ 3 Practical)			
7. Date of production/revision of this	28/9/2022			
specification				
8. Aims of the Course				
Understand fundamental concepts of computer programming and structured programming languages				
Design algorithms to solve "simple" problems				
Use the C programming language				

9. Learning Outcomes, Teaching ,Learning and Assessment Method
A- Cognitive goals . A1. A2. A3. A4. A5. A6 . B. The skills goals special to the course. B1.
B2. B3.
Teaching and Learning Methods
Assessment methods
C. Affective and value goals C1. C2. C3. C4.
Teaching and Learning Methods
Assessment methods

Mid Term Exams (15 points)	
Assignments (10 points)	
Quizzes and Attendance (5 points)	
Lab Exam and (10 points)	
(40 points)	
Final Lab Exam (10 points)	
Final Exam (50 points)	
(60 points)	

D. General and rehabilitative transferred skills(other skills relevant to employability and personal development)
D1.

D2.

D3.

D4.

10. Course Structure					
Week	Hours	ILOs	Unit/Module or Topic Title	Teaching Method	Assessment Method
Week 1	5	Introduction Fundamentals Writing Your First C Program	Chapter 1-3	whiteboard, explanation,	Assignments, answering different questions, quizzes and mid term
Week 2	5	Variables, Data Types and Arithmetic Expressions	Chapter 4		
Week 3	5	Program Loops: for, nested loops, while, do, break, continue	Chapter 5		
Week 4		Conditional Statements: if, if-else, nested if, else if, switch, conditional operator	Chapter 6		
Week 5	5	Mid Term Exam#1	Chapters (1-6)		
Week 6	5	Arrays: The	Chapter 7		

		concept of		
		array; Defining		
		arrays;		
		Initializing		
		_		
		arrays;		
		Multidimension		
		al arrays;		
		Variable length		
		array		
	5			
	5			
Week 7			Chapter 8	
		Defining a		
		function;		
		calling a		
		function;		
		Arguments;		
		Local		
		variables;		
		Returning		
		function		
		results;		
		Declaring a		
		function		
		prototype		
	5	1		
	3			
Week 8		Functions: Glo	Chapter 8	
		bal variables.		
		Automatic and		
		Static local		
		variables		
	-	variables		
	5			
Week 9		More on Data	Chapter 9	
		types:	-	
		Structures		
	-	Structures		
	5			
Week 10		Character	Chapter 10	
		Strings: Chara	_	
		cter Arrays/		
		Character		
		Strings;		
		Initializing		
		Character		
		Strings		
	5			
Week 11		Mid Term	Chantons (1 10)	
vv eek 11			Chapters (1-10)	
		Exam #2		
	5			
Week 12		Pointers:	Chapter 11	
VV CCK 12			Chaptel II	
I		Pointers and		

		Addresses; Pointers and Function Arguments; Pointers and Arrays; Pointer Arithmetics; Pointers and strings Dynamic memory		
Week 13	5	allocation Continue with Pointers	Chapter 11	
Week 14	5	Working with Files	Chapter 12	

11. Infrastructure			
1. Books Required reading:	Stephen G. Kochan, Programming in C, Developer's Library, Third Edition, 2005, ISBN-13: 978-0-672-32666-0.		
2. Main references (sources)	Stephen G. Kochan, Programming in C, Developer's Library, Third Edition, 2005, ISBN-13: 978-0-672-32666-0.		
A- Recommended books and references (scientific journals, reports).			
B-Electronic references, Internet sites			
12. The development of the curriculum plan			