

COURSE PLAN

FIRST: BASIC INFORMATION

College					
College	: Karak College				
Department	: Engineering Department.				
Course					
Course Title	Programming Language I				
Course Code	020406131				
Credit Hours	3 (1 Theoretical, 2 Practical)				
Prerequisite					
Instructor					
Name					
Office No.					
Tel (Ext)					
E-mail					
Office Hours					
Class Times	Building	Day	Start Time	End Time	Room No.
Text Book					

Programming Language I, Al-Balqa Applied University & KOICA, 2022

References

- Stephen Kochan, "Programming in C," 4th Ed., Addison-Wesley, 2014
- Greg Perry and Dean Miller, "C Programming Absolute Beginner's Guide," 3rd Ed., Que Publishing, 2013
- Jeff Szuhay, "Learn C Programming," Packt Publishing, 2020

SECOND: PROFESSIONAL INFORMATION COURSE DESCRIPTION

This course explains the concepts in programming languages and major tools and techniques to use programming language with an emphasis on C language which is the main programming language used in areas related to hardware including electronics.

COURSE OBJECTIVES

The objectives of this course are to enable the student to do the following:

- Develop logics which will help them to create programs.
- Explain the Tools of C programming language.
- Develop simple codes in C programming language.
- Develop codes related to data manipulations with arrays.
- Explain any other programming language easily.



COURSE LEARNING OUTCOMES

By the end of this course the students should be able to:

CLO1. Explain basic concept of programming language and its development environment

CLO2. Explain the structure of C-programming language

CLO3. Explain and use variable syntax in programming language

CLO4. Explain and use data types and its declarations in programming language

CLO5. Explain and use control statements including if and switch-case statements

CLO6. Explain and use loop statements including do, while, and for loops

CLO7. Explain and use array structure and its manipulation

CLO8. Write programs using functions

	SE SYLLABUS		Related	Proposal
week	Topic	Topic details	OL	assignments
		• Introduction to programming		<u> </u>
		language		
1 S	Start Programming	 Interpreters and Compilers 	CLO1	
		• Integrated development		
		environment		
		• 'Hello World' program		
		• Structure of C programming		
2	Structure of a C program	language	CLO2	
		• Components of C programming		
		language		
		• Variables		
		• Variables and memory		
3	Variables	Variables and constants	CLO3	
C		• Display the value of a variable :		
		printf		
		• Understanding Data Types		
4	Data types	• Working with Variables	CLO4	
7		• Working with Constant.		
		• Working with Arithmetic		
		Expressions		
5 Dat	Data types or operations	• Arithmetic operators	CLO4	
		• Combining Operations with		
		Assignment		
		• The if Statement		
6	Operation and operators	• The if-else Construct	CLO5	
0	-r	• Nested if Statements		
7	Control statement and expressions	The switch Statement	1	
		Boolean Variables	CLO5	
		The Conditional Operator		
8		Midterm Exam		
		• The concept of a loop		
9	Looping – For	• The for Statement	CLO6	
		Relational Operators		



week	Торіс	Topic details	Related OL	Proposal assignments
10 Loc	Looping – For (continue), While	 Nested for Loops 		
		 for Loop Variants 	CLO6	
	winne	• The while Statement		
		• The do-while Statement		
11 L	Looping- do-while	• The break Statement	CLO6	
		• The continue Statement		
		 Defining an Array 		
12	Array and string	 Initializing an array 	CLO7	
		• Using an array		
		 Character arrays and string. 		
13	Array and string	 Multidimensional arrays 	CLO7	
		 Arrays and loops 		
		 Array and memory 		
14	Array and string	 Variable Length Arrays 	CLO7	
		 Dynamic allocation 		
		• Concept of a function.		
15	Functions	 System defined function 	CLO8	
		• User defined function.		
16		Final Exam	Final Exam	

COURSE LEARNING RESOURCES

Teaching will be achieved using available resources including lectures, data show, and materials uploaded on the e-learning system.

ONLINE RESOURCES

Google search engine

ASSESSMENT TOOLS

Assessment Tools	%
Projects and Quizzes	20%
MID Exam	30%
Final Exam	50%
Total Marks	100%

THIRD: COURSE RULES ATTENDANCE RULES

Attendance and participation are extremely important, and the usual University rules will apply. Attendance will be recorded for each class. Absence of 10% will result in a first written warning. Absence of 15% of the course will result in a second warning. Absence of 20% or more will result in forfeiting the course and the student will not be permitted to attend the final examination. Should a student encounter any special circumstances (i.e. medical or personal), he/she is encouraged to discuss this with the instructor and written proof will be required to delete any absences from his/her attendance records.



GRADING SYSTEM

Example:			
	Grade	points	
	FAILED	0-49	
	PASSED	50-100	

REMARKS

{The instructor can add any comments and directives such as the attendance policy and topics related to ethics}

COURSE COORDINATOR

Course Coordinator:

Department Head:

Signature:

Dr. Nasr Gharaibeh

Signature: