

COURSE PLAN

FIRST: BASIC	INFORMATIC	DN			
College					
College	: Karak College				
Department	: Engineering	Department			
Course					
Course Title	Programming	Language II			
Course Code		020406132			
Credit Hours	3 (1 Theoretic	al, 2 Practical)			
Prerequisite	020406131				
Instructor					
Name					
Office No.					
Tel (Ext)					
E-mail					
Office Hours					
	Sunday	Monday	Tuesday	Wednesday	Thursday
Class Times	Building	Day	Start Tim	e End Time	Room No.
Textbook					
	mming Langua	ge II, Al-Balqa Ap	plied University	& KOICA, 2022	
References		5°,			
 Greg I Publish Jeff Sz 	Perry and Dear hing, 2013 zuhay, "Learn C	gramming in C," 4 Miller, "C Progr Programming," Pa ciples of Algorithr	ramming Absolu ackt Publishing,	ute Beginner's Gui 2020	de," 3rd Ed., Que
SECOND: PROFESSIONAL INFORMATION					
COURSE DESCRIPTION					
	ems. Especially			mplement software ements given with t	
COURSE OBJECTIVES					
The objectives of this course are to enable the student to do the following:					
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		C-programming to			
• Develop, test, and debug simple codes using C programming language.					

- Design and implement algorithms for solving given problems. Explain the basic concept of OOP. •
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COURSE LEARNING OUTCOMES

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

CLO1. Explain the basics of function

CLO2. Use functions to execute top-down programming

CLO3. Use arrays with functions

CLO4. Explain the difference between structures and unions.

CLO5. Use the structure and unions in coding

CLO6. Define a simple pointer

CLO7. Use pointers with structures

CLO8. Use pointers with arrays and functions

CLO9. Manipulate bits with operators

CLO10. Explain and use the operations associated with file handling in C

CLO11. Explain the basic concept of Object Oriented Programming

COURSE SYLLABUS				
week	Торіс	Topic details	Related OL	Proposal Assignments
1	Functions	 Defining a Function Arguments and Local Variables. Function Prototype Declaration. 	CLO1	
2	Functions	 Automatic Local Variables. Returning Function Results Functions Calling. 	CL01	
3	Functions	 Declaring return types and argument types. Checking Function Arguments Top-Down Programming 	CLO2	
4	Functions	Functions and Arrays.Arguments and arraysSorting Arrays	CLO3	
5	Structure and unions	 The Basics of Structures. A Structure for Storing the Date Initializing Structures Manipulating structures 	CLO4	
6	Structure and unions	 Functions and Structures Arrays of Structures. Structures Containing Structures. 	CLO5	
7	Structure and unions	Structures Containing Arrays.Structure Variants.Unions	CLO6	
8		Midterm Exam		
9	Pointers	 Pointers and Indirection. Defining a Pointer Variable. Initializing a pointer variable 	CLO6	



week	Торіс	Topic details	Related OL	Proposal Assignments
10	Pointers	 Using Pointers in Expressions. Working with Pointers and Structures Structures containing pointers. 	CLO7	
11	Pointers	Pointers and Functions.Pointers and ArraysLinked List.	CLO8	
12	Operations on Bits	 Memory manipulation. Bitwise Operators. Bitwise operators and arithmetic operators 	CLO9	
13	File handling	 Open and saving a file. Using sequential files. Using random files.	CLO10	
14	Source File Handling (Project Management)	 Dividing a Program into Multiple Files Communication Between Modules Other utilities for working with a larger programs 	CLO10	
15	Introduction to Object Oriented Programming	 Object Oriented Programming C and C++ programming language Class Other programming languages 	CLO11	
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

https://ncert.nic.in/textbook/pdf/kecs104.pdf Any web site or tutorial that offers information about Automatic control systems analysis and design.

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

Grade	points
FAILED	0-49
PASSED	50-100

REMARKS

- Copying assignments, quizzes, or exams from another student will not be tolerated.
- Helping other students to cheat in any way or form will not be tolerated.
- Excellent attendance is expected.
- BAU policy requires the faculty member to assign ZERO grade (F) if a student misses 20% of the classes without a valid excuse.
- If student miss a class, it is his responsibility to find out about any announcements or assignments he/she may have missed.
- Participation in, and contribution to class discussions will affect the final grade positively.
- Making any kind of disruption (side talks or mobile ringing) in the class is not allowed and it will affect student negatively.
- Makeup exam should not be given unless there is a valid excuse according to BAU policies.

COURSE COORDINATOR

Course Coordinator:

Department Head: Signature:

Signature:

Date:

Dr. Nasr Gharaibeh