1.	Course Title	Computer Programming				
2.	Course Code	CCPS1513				
3.	Status	Faculty				
4.	Credit Hour	3 (2+1) 2 lecture (2 hours lecture x 14 weeks) 1 tutorials (1.5 hours per x 14 weeks) Lab work -using simulator & emulator supervised by tutor				
5.	Semester/Year	1/1				
6.	Prerequisites	N/A				
7.	Teaching method:	Distance Learning (Electronic)				
8.	readining meanous	Assessment and Marking Percentage:				
	Evaluation	Participation 5% Quizzes 15% Project 15% Mid Sem Exam 15%				
_	Lastinan	Final Examination 50%				
9.	Objective of the Subject	To give an introduction to basic programming concepts through the use of a high-level programming language such as C/C++. It covers the basic notions and techniques for algorithm development and the implementation of algorithms in a high-level programming language.				
11.	Learning Outcomes	By the end of the subject, students should be able to: Identify and apply basic concepts of a high level programming language correctly. Demonstrate the basic notions and techniques for algorithm development Implement these algorithms in a high-level programming language correctly and effectively.				
12.	Synopsis	The major areas of study include: Software Development Life Cycle, Top-down Design, Program Design Steps and Programming Methodology, Structure Chart, Flowchart, Pseudo Code, Debugging and Documentation Techniques, Identifiers, Data Types, Operators, Various Statements, Type Conversion, Conditional and Control Structures, Functions, Arrays and Pointers, Strings, Structures and Unions, File Handling, Command Line Parameters, Pointers to Functions, Header Files, Stacks, Linked Lists, Bitwise Manipulation, and Programming laboratory exercises.				
13.	Topics	Details	Lecture (Hrs)	Tutorial (Hrs)		
	Topic 1	Software Development and Programming Environment Software development life cycle Top-down design with function system structure program design steps and programming methodology structure chart flowchart pseudo code Debugging and documentation techniques	2	1.5		
	Topic 2	Syntactic Structure of a Program Identifiers data types operators various statements operator precedence type conversion conditional and control structures function recursive functions.	4	3		

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	Topic 3	Arrays One- and two-dimensional arrays	2	1.5	
	Topic 4	passing individual elements or whole array to a function -Simple sorting and searching on arrays	2	1.5	
	Topic 5	pointers- strings - dynamic memory allocation	2	1.5	
		Structures and Unions			
	Topic 6	 Structure declaration and definition accessing structures array of structures pointers and structures Union declaration enumerated variables 	6	4.5	
	Topic 7	File Handling	4	3	
	Topic 8	Advanced Topics	6	4.5	
		Total contact hours	28	36	
		Equivalent lecture hours	28	14	
		Total lecture hours	42		
14.	Main reference: Textbook:	1. K. Goyal, The C Programming Language by (2007) 2. K. N. King, C Programming: A Modern Approach, 2	nd Edition (2008)		
15.	Additional References:	 Stephen Kochan, Programming in C (3rd Edition) (Developer's Library) (2004) Stephen Prata, C Primer Plus (5th Edition) (Paperback - Dec 3, 2004) 			
	Other Materials:	All materials will be available to the students online.			