

KSKV Kachchh University
Program: PGDCA
Semester: I

Paper Code: CCCS102	Total Credit : 4
Title of Paper: Fundamentals of Computer Programming Using C	

Unit	Description	Weighting
I	Concept of Algorithm, Flowchart and Languages Concept of an algorithm and a flow chart, need and definition Symbols used to draw a flow chart. Typical (primitive) examples of flow charts and algorithms Generations of computer languages. High-level and low-level languages. Translators Introduction to editors and details about one of the editors	20%
II	Basics of Programming Problem analysis. Variables, expressions & manipulation Data types in a high-level language, operators I/O statements, Assignment statements Control strategies, Conditions	20%
III	Structured Programming, Library Functions and Arrays Loop statements Method of structured programming Common standard library functions Arrays and its types	20%
IV	Strings, User-Defined Functions and Command-line arguments String handling. Working with user defined functions Calling functions, passing arguments User-defined functions	20%
V	Pointer Structure and Union Bit fields, File Management Command Line Arguments	20%

Basic Text & Reference Books :-	
1.	Balaguruswami : Programming in ANSI C., Tata McGraw Hill Publication.
2.	Kernighan B., Ritchie D. : The C Programming Language, Prentice Hall.
3.	Cooper H. & Mullish H : The Sprit of C, Jaico Publication House, New Delhi.

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Unit	Description	Total Marks
I	Q.1 (A) Short Questions. (Definitions, Blanks, Full Forms, True/False, Match the Following)	04
	Q.1 (B) Short Questions / Medium Questions (With Internal Option)	06
	Q.1 (C) Questions Based on Flowchart / Algorithm (With Internal Option)	04
II	Q.2 (A) Short Questions. (Definitions, Blanks, Full Forms, True/False, Match the Following)	04
	Q.2 (B) Short Questions / Medium Questions (With Internal Option)	06
	Q.2 (C) Questions Based on Program in C (With Internal Option)	04
III	Q.3 (A) Short Questions. (Definitions, Blanks, Full Forms, True/False, Match the Following)	04
	Q.3 (B) Short Questions / Medium Questions (With Internal Option)	06
	Q.3 (C) Questions Based on Program in C (With Internal Option)	04
IV	Q.4 (A) Short Questions. (Definitions, Blanks, Full Forms, True/False, Match the Following)	04
	Q.4 (B) Short Questions / Medium Questions (With Internal Option)	06
	Q.4 (C) Questions Based on Program in C (With Internal Option)	04
V	Q.5 (A) Short Questions. (Definitions, Blanks, Full Forms, True/False, Match the Following)	04
	Q.5 (B) Short Questions / Medium Questions (With Internal Option)	06
	Q.5 (C) Questions Based on Program in C (With Internal Option)	04