Krantiguru Shyamji Krishna Verma Kachchh University, Bhuj
Master of Science (Computer Applications & Information Technology)
Semester: II

Paper Code: CECS204	Total Credit : 4
Title of Paper: Elements of C Programming	Total Marks : 70
	Time : 3 Hrs

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 and Arrays, Strings** Loop statements Common standard library functions Arrays, Strings and string handling functions	20%
IV	**Functions and Pointers** Functions and Working with functions, Pointer, Pointer Arithmetic and Pointer Manipulations, Calling functions, passing arguments	20%
V	**Structure, Union and File Management** Structure and Union, 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
All	Q.1(A) Multiple Choice Questions (MCQ)	06	14
	Q.1 (B) Short Questions (Definitions, Blanks, Full Forms, True/False, Match the Following)	08	
I, II	Q.2(A) Medium Questions (Any Two)	06	14
	Q.2(B) Medium Questions / Long Questions (Any Three)	08	
II, III	Q.3(A) Medium Questions / Long Questions (Any Two)	06	14
	Q.3(B) Medium Questions / Long Questions (Any Two)	08	
III,IV	Q.4 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.4 (B) C Program. (With Internal Option)	08	
IV,V	Q.5 (A) Short / Medium Questions (With Internal Option)	06	14
	Q.5 (B) C Program. (With Internal Option)	08	