SARDAR PATEL UNIVERSITY Programme: BCA Semester: I Syllabus with effect from: JUNE 2011

Paper Code: US01CBCA01	Total Credit: 3
Title Of Paper: Fundamentals Of Computer Programming Using C	Total Creuit. 5

Unit	Description in detail	Weighting (%)
Ι	Concept of Algorithm, Flowchart and Languages	25%
	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	
II	Basics of Programming	
	Problem analysis	
	Variables, expressions & manipulation	25%
	Data types in a high-level language, operators	2370
	I/O statements, Assignment statements	
	Control strategies, Conditions	
III	Structured Programming, Library Functions and Arrays	
	Loop statements	25%
	Method of structured programming	
	Common standard library functions	
	Arrays	
IV	Strings, User-Defined Functions and Command-line arguments	
	String handling.	
	Working with functions	25%
	Calling functions, passing arguments	23%
	User-defined functions	
	Command-line arguments	

Basic Text & Reference Books :-

- ➤ Kernighan B., Ritchie D. : The C Programming Language, Prentice Hall.
- Cooper H. & Mullish H : The Sprit of C, Jaico Publication House, New Delhi.
- Balaguruswami : Programming in ANSI C., Tata McGraw Hill Publication.

