

SARDAR PATEL UNIVERSITY
Programme & Subject: B.Sc (Computer Science)
Semester: III
Syllabus with Effect from: June-2012

Paper Code: US03CCSC01	Total Credit: 3
Title Of Paper: Fundamentals of Computer Programming Using C	

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

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.
- Computer Fundamentals 4th Edition - P.K. Sinha, Priti Sinha

