I B.Sc, (CS)	PROGRAMMING IN C	CS101S
SEMESTER - I		HRS/WK-4
CORE - 1		CREDIT - 3

Objective:

To understand the basic concepts of a structured programming language.

UNIT – I 10hrs

Basics Of C: C fundamentals Character set – Identifier and keywords – data types – constants– Variables – Declarations – Expressions – Statements – operators – Library functions.

UNIT – II 10hrs

I/O and Control Statements: Data input output functions - Simple C programs - Flow of control – if, ifelse, while, do-while, for loop, nested control structures – switch, break and continue, go to statements.

UNIT -III 15hrs

Function and Storage classes: Function – Definition – Prototypes – Passing arguments – Recursion - Storage classes.

UNIT – IV 15hrs

Arrays, **Structures and Unions**: Arrays – Defining and Processing – Passing arrays to functions – Arrays and string - Structures and Unions.

UNIT – V 10hrs

Pointers and Files: Pointers – Declarations – Passing pointers to function – Operation on Pointers – Pointer and Arrays – Files and operation on files.

Text Books:

- 1. Programming in ANSI C by E.Balagurusamy.
- 2. Ashok N.Kamthane, Programming with ANSI and Turbo C, Pearson Education.

Reference Books:

- 1. B.W. Kernighan and D.M. Ritchie, the C programming Language.
- 2. H. Schildt, C: The Complete Reference, TMH Edition,.
- 3. Kanetkar Y., "Let us C", BPB Pub., New Delhi.

NOTE:

Please refer text book 1 for Question Paper and key preparation.