

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**SESSION : 2014-15****SEMESTER : 3rd****SUBJECT : Programming in C****TEACHERS : SATABDI SAHA DHAR(SSD), ANTARA GHOSH(AG), MRINAL MAITI(MM)**

UNIT	Hrs/Unit	TOPICS	SUBJECT CONTENTS
1	05	Introduction to Programming: Algorithms and Flowcharts	1.1 Compiler, Interpreter, Assembler, Loader, and Linker 1.2 Fourth Generation Languages 1.3 Structured Programming Concept 1.4 Algorithm – Features and its applications 1.5 Flow Chart – Features and its applications 1.6 Programs and Programming 1.7 Programming Languages.
2	02	Overview of C Programming	2.1 Introduction of C Language 2.2 Basic Structure of C 2.3 Working steps of C compilation – Source Code-Object Code – Executable object code.
3	05	Types, Operator & Expression	3.1 Introduction (Grammars/Syntax Rules) 3.2 Character Sets, Keywords, Identifiers, Constants, Variables 3.3 Data types and sizes 3.4 Different operators & expressions 3.5 Type conversions.
4	02	Managing Input & Output Operations	4.1 Some input as well as output functions : scanf(), printf(), getchar(), putchar(), getch(), getche(), gets(), puts().
5	06	Control Flow (Decision Making)	5.1 Introduction 5.2 if...else, switch---case statement 5.3 Looping : for, while and do.....while statements 5.4 break, continue and goto statements. 5.5 Simple Program.
6	06	Arrays	6.1 Introduction 6.2 Declaration and initialization of Array 6.3 Accessing of array elements and other allowed operations. 6.4 Simple program with a one dimensional array.
7	06	User defined Function	7.1 The concepts of user defined functions. 7.2 Using functions : i) Function Declaration, ii) Function Definition, iii) Function Call 7.3 Simple program.