

**Department of Computer Science & Engineering**

**Subject Name: Programming concept using C**

**Semester: Third**

**Subject Code: EE/S3/C**

**Session : 2015-16**

**Faculty Members: Moumita Samanta(MS),Susmita Biswas(SB),Mrinal Maity(MM),Santunu Saha(SS),Antara Ghosh(AG)**

<b>UNIT</b>	<b>HOURS</b>	<b>TOPICS</b>	<b>COURSE CONTENT</b>
1	5	Introduction to Programming: Algorithms and Flowcharts	1.1 Programs and Programming 1.2 Programming Languages 1.3 Compiler, Interpreter, Assembler, Loader, and Linker 1.4 Fourth Generation Languages 1.5 Structured Programming Concept 1.6 Algorithm – Features and its applications 1.7 Flow Chart – Features and its applications
2	2	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	5	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	2	Managing Input & Output Operations	4.1 Some input as well as output functions : scanf(), printf(), getchar(), putchar(), getch(), getche(), gets(), puts().
5	6	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	6	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	6	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