

Department of Computer Science & Engineering

Subject Name: Computer Programming

Semester: Fifth

Subject Code: ME/

Session : 2015-16

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

UNIT	HOURS	TOPICS	COURSE CONTENT
1	2	Introduction to Programming: Algorithms and Flowcharts	Problem, definition and analysis, algorithm, flow charts, tracing and dry running of algorithms. Introduction to 'C' programming, simple program using Turbo 'C' compiler and execution of 'C' program
2	3	Operators & managing input output operations	C Fundamentals: Character set, constants, data types, identifiers, key words, variable declarations, Types of Operators – unary, binary, arithmetic, relational, logical, assignment. Hierarchy of operators, expressions, library functions, Use of input/ output functions viz. Printf(), Scanf(), getch(), putch()
3	5	Control Statements	Use of Control Statements:- if-else, if-else-if, switch-case, while loop, do – while loop, for loop, break and continue. Writing, Compiling, Executing and debugging programs
4	4	Arrays	Introduction to Subscripted variables, arrays, defining and declaring one and two dimensional arrays, reading and writing
5	3	Strings & User Defined Functions	Concept of String, string input / output functions Defining and accessing a user defined functions, Passing of arguments, declaration of function prototypes Storage classes: automatic, external, static variables