

Department of Information Science & Engineering

SEMESTER : I

BRANCH : ALL

SUBJECT : Programming in C and Data structures

SUBJECT CODE : 15PCD13

NO OF HRS/WK : 7

NAME OF THE FACULTY : Mr. Samrat Chowdhury

DATE OF COMMENCEMENT : 01-08-2016

DATE OF CLOSING : 09-11-2016

CLASS STRENGTH : 61

TOTAL HRS : 68

Ses sion No	Chapter no (No of hrs planed for the chapter)	DATE	Topics planned for the session	Teaching Aids	Assign ments/ Tests planned for the chapter	Topics covere d As per plan
	-	1/8/2016	How to design the solution for a given problem. Example: Reverse of a given number.			
	-	2/8/2016	Design the solution for the problem: Find out the square roots of a given quadratic equation in the form: $ax^2 + bx + c = 0$.			
1	1/1	4/8/2016	Module 1: Introduction to C Language	Board, chalk, duster		
2	2/1	5/8/2016	Pseudo code solution to problem,	„		
3	3/1	5/8/2016	Basic concepts of a C program	„		
4	4/1	6/8/2016	Basic concepts of a C program	„		
5	5/1	6/8/2016	Declaration, Assignment & Print statement	„		
6	6/1	8/8/2016	Declaration, Assignment & Print statement	„		
7	7/1	9/8/2016	Types of operators with programs	„		

8	8/1	11/8/2016	Expressions along with Programs			
9	9/1	12/8/2016	Programming examples and exercise	Board, chalk, duster		
10	10/1	12/8/2016	Programming examples and exercise.	„		
11	11/1	16/8/2016	Mini Assessment Test	-		
12	12/1	17/8/2016	Type Conversion with examples.	Board, chalk, duster		
13	13/1	18/8/2016	Revision.	„		
14	1/2	20/8/2016	Module 2: BRANCHING AND LOOPING : Introduction to Looping and Branching	Board, chalk, duster		
15	2/2	22/8/2016	Two way selection -if, if-else, Programming Examples	„		
16	3/2	22/8/2016	Nested if- else Programming Examples	„		
17	4/2	23/8/2016	cascaded if-else, switch statement,	„		
18	5/2	23/8/2016	Programming Examples	„		
19	6/2	24/8/2016	Ternary operator, Go to Statement	„		
20	7/2	25/8/2016	Loops (For, do-while) Programming Examples	„		
21	8/2	27/8/2016	While Loop, Programming Examples	„		
22	9/2	28/8/2016	break and continue	„		
23	10/2	29/8/2016	programming examples and exercises	„		
24	12/2	30/8/2016	Mini Assessment Test	„		
25	1/3		Module 3: Arrays, Strings and Functions : Introduction	„		
26	2/3		ARRAYS AND STRINGS: Using an array, Programming Examples	„		
27	3/3		Using arrays with Functions Programming Examples	„		

28	4/3		Multi-Dimensional arrays, Programming examples	„		
29	5/3		String: Declaring, Initializing, Printing and reading strings,	Board, chalk, duster		
30	6/3		Programming examples	„		
31	7/3		strings manipulation functions, strings input	„		
32	8/3		Strings output functions, programming examples	„		
33	9/3		arrays of strings, programming examples	„		
34	10/3		programming examples and Exercises	„		
35	12/3		Introduction to functions, need of functions	„		
36	13/3		Functions in C, function call, function definition, function declaration	„		
37	14/3		Programming Examples on functions	„		
38	15/3		Argument Passing, call by value, Call by reference, programs	„		
39	16/3		Functions and program structure	Board, chalk, duster		
40	17/3		location of functions, programs	„		
41	18/3		void and parameter less Functions	„		
42	19/3		Recursion	„		
43	20/3		programming examples and exercises	„		
44	22/3		Mini Assessment Test	„		
45	1/4		Module-4: Basic of Structures	„		
46	2/4		Structures	„		

47	3/4		Structure with Functions	”		
48	4/4		Arrays of Structures	”		
49	5/4		Structure Data Types	”		
50	6/4		Type Definition	”		
51	7/4		Defining Files	”		
52	8/4		Opening and Closing of Files	”		
53	9/4		File Input	”		
54	10/4		File Output Operations	”		
55	11/4		Programming Examples	”		
56	12/4		Mini assessment test			
57	1/5		Module- 5: Introduction to Pointers	”		
58	2/5		Pointers and Address	”		
59	3/5		Pointers and Functions Arguments,	”		
60	4/5		Pointers and Arrays,	”		
61	5/5		Address Arithmetic,	”		
62	6/5		Character Pointer and Functions,	”		
63	7/5		Pointers to Pointer, Initialization of Pointers Arrays,	”		
64	8/5		Dynamic Allocations Methods,	”		
65	9/5		Introduction to Pre-processors	”		
66	10/5		Compiler Control Directives	”		
67	11/5		Primitive and Non Primitive Data Types,	”	Assignment –V	

68	12/5		Definition and applications of Stacks, Queues	„		
69	13/5		Definition and applications of Linked Lists and Trees.	„		
70	14/5		Programming Examples	„		
71	15/5		Mini Assessment test			

Literature:

Book Type	Code	Author & Title	Publication information	
			Edition // Publisher	ISBN #
Text Book	TB1	Brain W. Kernighan and Dennis M. Richie: The C programming Language.	2 nd Edition, PHI, 2012.	10: 978-01-311-0362-8 13: 978-01-311-0362-7
Text Book	TB2	Jacqueline Jones & Keith Harrow: Problem Solving with C.	1st Edition, Pearson 2011	13: 978-18-819-9148-9 10: 978-18-819-9148-2
References	RB1	Vikas Gupta: Computer Concepts and C Programming.	Dreamtech Press 2013.	978-81-772-2998-1

Signature of faculty

Signature of HOD

Signature of Principal