



FACULTY OF:- Computer Science DEPARTMENT OF: - Master of Computer Applications SEMESTER: -I CODE: - 5CS01MCP1 NAME: - FUNDAMENTALS OF C PROGRAMMING

Teaching and Evaluation Scheme

	Name of the Subject	Teaching Scheme (Hours)					Evaluation Scheme							
Subject Code		T h	Tu	Pr	Total	Credits	Theory			Practical (Marks)				
							Sessional University Exam Exam		Internal		University	Total		
							Marks	Hrs	Marks	Hrs	Pr/Viva	TW	Pr	
5CS01MCP1	FUNDAMENTALS OF C PROGRAMMING	4	-	-	4	4	30	1.5	70	3				100

Objectives:-

- The aim of this course is to introduce to the students the rudiments of structured programming using C language.
- Students will become familiar with problem solving techniques and algorithm development

Prerequisite:-

Any programming language like C

Course Outline:-

SNo.	Course Contents	Number of Hours	
1	Introduction of C :	05	
	Tokens, Operators and Expressions, Operators precedence & associatively		
2	Decision making & Branching :	05	
	If, if-else, nested if-else, switch-case, For, Do-While, While Loop		
3	Arrays :	05	
	Introduction, one dimensional array, two dimensional arrays and muti-dimensional		
	array, array to string		
4	String Handling:	05	
	Overview & Declaration of string, String-handling functions, String as array		
5	Structures :	06	
	Declaration, usage of structure, nested, structures, Union and its usage, structure to		
	array		
6	Function :	06	
	Definition, using functions, recursion, command line arguments		
7	Pointers :	06	
	Declaring and initializing pointers, Array and Pointers, Pointers, and strings, Pointer		



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	to Pointer, Pointers and functions	
8	File Management :	07
	High level I/O Functions, Defining & Opening File, I/O Operation on File, Error Handling during I/O Operations, Command Line Arguments, Dynamic Memory Allocation, Allocating a Block Memory	
	Total Lecture	45

Learning Outcomes:

• After completion of the course students should become reasonably good at problem solving and algorithm development. They would become capable of solving problems using computers through C programming language.

Teaching & Learning Methodology:

Using Whiteboard & Multimedia or OHP

Books Recommended:

- 1. Programming in ANSI C, E. Balaguruswami
- 2. Classic Data Structures , Debasis Samanta, PHI

Reference Book:

- 1. Programming in C, Pradip Dey & Manas Ghosh, Publisher Oxford
- 2. Expert Data Structures With C, Dr. R.B. Patel, Publisher-Khanna Publications
- 3. Data Structure Using C and C++, Y kanitkar, Publisher-PHI
- 4. Let us C, Yashwant Kanitkar, Publisher BPB Publication