

C. U. SHAH UNIVERSITY

FACULTY OF: Computer Science DEPARTMENT OF: M.Sc(CA & IT) SEMESTER : III CODE: 4CS03ACP1 NAME: Advanced C Programming

Sr · N o	Subject Code	Subject Name	Teaching Hours/Week			Credits	Evaluation Scheme/Semester						Total Marks	
1	4CS03ACP1	Advanced C	T H	_	P R	TOTA L		Theory Sessiona Univer l sity Exam Exam		Univer sity	PracticalSessionalUniversityExamExam		University Exam	
		Programming						Ma rks	H rs	Marks	Mar ks	Hr s	Total Marks	
			5	0	0	5	5	30	1. 5	70	50	1.5	0	100

Objectives:

• To introduce the basics of programming to the students. Students will familiar with problem solving techniques.

• To introduce basic and intermediate level concepts and techniques of the C programming language. **Pre-requisites:** Awareness of Computer is required.

Sr.No	Course Contents	No of Hours
1	String String, String storage, Reading and writing string, String handling functions.	10
2	User Define Functions Concept of user defined functions, function prototype, definition of function, parameter passing, calling a function, category of function, recursive function.	4
3	Structure and Union Basics of structure, structure members, accessing structure members, array of structures, array within structure, size of structures, unions, bit -fields.	4
4	Pointers Basics of pointers, pointer and array, pointer to array, array of pointers, pointer as function argument, function returning a pointer.	7
5	File Management Introduction to file I/O operations on file, Reading from and writing to files, File handling functions, command line arguments.	5

Learning Outcomes:

• At the end of this course the students can solve problem usingC, fundamental of programming language and also improve the programming skills.



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Books Recommended:

- 1, "Programming in ANSI C", EBalagurusamy TMH Publication. (4th Edition).
- 2, "C: The Complete Reference", Herbert Schildt, TMH Publication. (4th Edition).
- 3, "Let us C", Y Kanetkar, BPB Publication(3rd Edition).
- 4, "C Programming Language", Brian W. Kernighan(2nd Edition).
- 5, "The C Programming Language", BrainW, Pearson (2nd Edition).