



C. U. SHAH UNIVERSITY

FACULTY OF: Computer Science
DEPARTMENT OF: M.Sc(CA & IT)
SEMESTER : III
CODE: 4CS03PAC1
NAME: Practical Advanced C Programming

Sr · No	Subject Code	Subject Name	Teaching Hours/Week				Credits	Evaluation Scheme/Semester						Total Marks
			T H	T U	P R	TOTA L		Theory			Practical			
			Sessiona I Exam		Univer sity Exam		Sessional Exam		University Exam					
			Ma rks	H rs	Marks	Mar ks	Hr s	Total Marks						
1	4CS03ACP1	Practical Advanced C Programming	0	0	12	12	6	0	1.5	0	00	1.5	50	50

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
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Learning Outcomes:

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

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).