



C. U. SHAH UNIVERSITY

FACULTY OF: Computer Science
DEPARTMENT OF: M.Sc(CA & IT)
SEMESTER : II
CODE: 4CS02PRC1
NAME: Programming in C

Sr · No	Subject Code	Subject Name	Teaching Hours/Week				Credits	Evaluation Scheme/Semester						Total Marks
			T H	T U	P R	TOT AL		Theory			Practical			
								Sessional Exam	Univer sity Exam	Sessional Exam	University Exam			
								Mar ks	Hr s	Marks	Mar ks	Hr s	Total Marks	
1	4CS02PRC1	Programming in C	4	0	0	4	4	30	1.5	70	30	1.5	30	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	Total Hrs.
1	Fundamental of 'C' History of C, Importance of C language, Structure of C program, C tokens, variables and data types, comments, constants, Symbolic constant.	5
2	Operators Arithmetic, relational, logical, assignment, bitwise, increment and decrement, conditional, special operators.	8
3	Expression Arithmetic expressions, evaluation of expressions, type conversion, precedence and associativity.	7
4	Control Structures Simple IF statement, if – else statements, Nested if-else, switch statement	10
5	Looping and jumping structures Looping statements, goto statement, break and continue statement. Could, May, Might, Must, Ought to, Need, Dare to, Used to	8
6	Array Concept of array, One and Two dimensional arrays, declaration and initialization of arrays	7



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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*”, E Balagurusamy 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*”, Brian W. Kernighan, Pearson(2nd Edition).