C. U. SHAH UNIVERSITY

FACULTY OF: Computer Science
DEPARTMENT OF: M.Sc(CA & IT)
SEMESTER : II
CODE: 4CS02PPC1
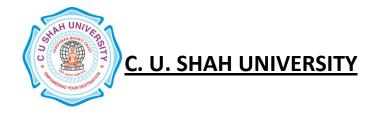**NAME:** Programming in C Practical

Sr. No	Subject Code	Subject Name	Teaching Hours/Week				Cre dits	Evaluation Scheme/Semester						Total Marks
								Theory		University Exam	Practical			
1	4CS02PRC1	Programming in C	TH	TU	PR	TOTAL		Sessional Exam			Sessional Exam		University Exam	
								Mar ks	Hr s	Marks	Mar ks	Hr s	Total Marks	
			0	0	12	12	6	0	1.5	0	50	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: Awarenessof 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

Learning Outcomes:

At the end of this course the students can solve problem usingC, 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).