



**PARVATHANENI BRAHMAYYA
SIDDHARTHA COLLEGE OF ARTS & SCIENCE**
Autonomous
Siddhartha Nagar, Vijayawada-520010
Re-accredited at 'A+' by the NAAC

23BCMAP122: Programming in C Lab

Offered to : B. C. A Honours

Year of Introduction: 2023 – 2024

Semester: II

30Hours

Course Objective:

This course aims to provide exposure to problem-solving through programming and introduce the concepts of the C Programming language.

Course outcomes (based on BTL):

Year of Offering: 2023 – 2024

Course Type: Practical -Major 4

Credits:1

Course Outcome No.	Outcome	Mapping to
CO1	Demonstration of basic C programs using branching and iterative statements.	PO5
CO2	Perform operations on arrays	PO5
CO3	Demonstrate passing parameters to functions and recursive functions.	PO5
CO4	Demonstrate pointers	PO5
CO5	Demonstrate structures and file handling concepts	PO5, PO6

Mapping of Course Outcomes (COs) with Programme Outcomes (POs) & PSOs

	CO-PO MATRIX							
	CO-PO	PO1	PO2	PO3	PO4	PO5	PO6	PO7
23BCMAP122	CO1					H		
	CO2					H		
	CO3					H		

	CO4					H		
	CO5					H		M

List of the Practicals

1. Write a C program to calculate the expression: $((a*b)/c)+(a+b-c)$.
2. Write a C program to calculate $(a+b+c)^3$.
3. Write a C program to check whether the given number is Prime or Not.
4. Write a C program to find the sum of individual digits of a given number .
5. Program to convert Hours into seconds.
6. Write a C program to generate all the prime numbers between 1 and n, where n is a value supplied by the user.
7. Write a program to check whether the given number is Palindrome or Not.
8. Write a C program to check whether a given 3-digit number is an Armstrong number or not.
9. Write a C program to print the numbers in triangular form.

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1
1 2
1 2 3
1 2 3 4

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10. Program to display the number of days in given month using Switch – Case.
11. Write a C program to perform the following:
 - I. Addition of two matrices.
 - II. Multiplication of two matrices.
12. Write a C program to determine if the given string is a palindrome or not.
13. Write C program to find the factorial of a given integer using a recursive function.
14. Write a C program to concatenate two strings using pointers.
15. Write a C program to find the length of a string using pointers.
16. Program to display Student Details using Structures.
17. Write a C program to
 - I. Write data into a File. II. Read data from a File.

**MODEL QUESTION PAPER FOR SEM END PRACTICAL EXAMINATION 2023-24
23BCMAP122 : PROGRAMMING IN C LAB**

Offered to: B. C. A Honours
Max. Marks : 50 (CIA: 15 + SEE: 35)

Semester: II
Hrs/Week: 2

Model Paper : Practicals

Time: 3 Hrs

Max. Marks : 35

	Section - A	
1. Experiment 1		15 M
2. Experiment 2		10 M
	Section – B	
Viva Voce		10 M
CONTINUOUS ASSESMENT:	(Internal)	15 M
Total		50Marks

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