

FJ II 21CSS101J set C - pps ct 2 paper

Programming For Problem Solving (SRM Institute of Science and Technology)



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SRM Institute of Science and Technology College of Engineering and Technology DEPARTMENT OF ECE

BATCH 2
SET C

SRM Nagar, Kattankulathur – 603203, Chengalpattu District, TamilNadu

Academic Year: 2023-2024 (EVEN)

Test:CLA T2 **Date:** 01-04-2024

Course Code & Title:21CSS101J – Programming for Problem Solving **Duration:**12.30 pm – 2.00 pm

Year & Sem:1st Year / 2nd Sem

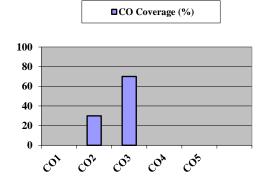
Max. Marks:40

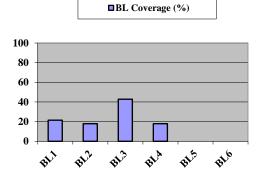
Course Articulation Matrix:

21CSS101J - Programming for Problem Solving		Program Outcomes (POs)											
		Graduate Attributes											
	At the end of this course, learners will be able to:	1	2	3	4	5	6	7	8	9	10	11	12
	Solve problems through computer programming. Express the basic data types and variables in C	2	3	-	-	-	-	-	-	-	1	-	2
CO-2 :	Use appropriate data types in simple data processing applications. To create programs using the concept of arrays.	2	3	1	-	-	1	-	1	1	1	1	2
CO-3:	Create string processing applications with single and multi- dimensional arrays.	2	3	1	-	-	1	-	ı	ı	ı	1	2
	Create user defined functions with required operations. To implement pointers in applications with dynamic memory requirements.	2	3	ı	-	-	ı	-	ı	ı	ı	ı	2
CO-5:	Create programs using the python data types, loops, control statements for problem solving	2	3	-	-	-	-	-	-	-	-	-	2

	$Part - A (4 \times 2 = 8 Marks)$								
	Instructions: Answer ALL the Questions								
Q. No	Question	Marks	BL	CO	PO				
1	List down the Advantages and limitations of multi-dimensional array initialization	2	1	2	1				
2	Predict output of the following program int main() { int a[][]={{1,2},(3,4}}; int i,j; for i=0; i<2; i++ for j=0; j<2; j++ printf("%d",a[i][j]); return 0; }	2	4	2	2				
3	Discuss call by value and call by reference with an example	2	1	3	1				
4	Write a C program to find the length of a string	2	2	3	2				
	$Part - B (4 \times 8 = 16 \text{ Marks})$								
	Instructions: Answer ANY 4 Questions (Q no. 5 is compulsory)								
5 (a)	Explain in detail about the declaration of two-dimensional arrays, its initialization with suitable examples	8	1	2	1				
OR									
5(b)	Write a program to illustrate the use of indirection operator '*' to access the value pointed to by a pointer.	8	3	2	12				
6	Explain in details about string functions: gets(), puts(), getchar(), putchar(), printf(), with an example programs	8	3	3	1				
7	Design a program to copy one string into another and count the number of characters copied. (i) using string function (ii) without using string function	8	4	3	2				
8	Explain function with and without Arguments and having a Return Value with suitable examples.	8	3	3	2				
9	Using a C program function sort an array of integers.	8	3	3	2				

Course Outcome (CO) and Bloom's level (BL) Coverage in Questions





Evaluation Sheet

Name of the Student:

Register No.:

Part- A (4 x 2= 8 Marks)								
Q. No	CO	PO	Maximum	Marks	Total			
			Marks	Obtained				
1	CO2	PO1	2					
2	CO2	PO2	2					
3	CO3	PO1	2					
4	CO3	PO2	2					
	Part- B (4 x 8= 32 Marks)							
5(a)	CO2	PO1	8					
5(b)	CO2	PO12	8					
6	CO3	PO1	8					
7	CO3	PO2	8					
8	CO3	PO2	8					
9	CO3	PO2	8					

Consolidated Marks:

CO	Maximum Marks	Marks Obtained
2	12	
3	28	
Total	40	

PO	Maximum Marks	Marks Obtained
1	20	
2	28	
12	8	
Total	56	

Signature of the Course Teacher