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## **Problem Solving through C Program Report (AY:2019-20)**

**Name of the program: “Problem Solving through C”**

**Day/Duration: 14.01.2020-15.01.2020**

**Time: 11.00 Am to 3 Pm**

**No of participants: 90**

**Course Outcome:**

**Algorithm Design and Implementation:**

- Students will be able to design, implement, and analyze algorithms to solve computational problems using C programming.

**Proficient Use of Data Structures:**

- Learners will demonstrate the ability to select and implement appropriate data structures (such as arrays, linked lists, stacks, and queues) to effectively manage and manipulate data in C programs.

**Debugging and Code Optimization:**

- Students will acquire skills to debug C programs efficiently, employing various debugging techniques and optimizing code for better performance and resource management.

**Topic Covered:**

1. Introduction to C Programming
2. Control Structures
3. Functions
4. Arrays and Strings
5. Pointers
6. Structures and Unions
7. File Handling
8. Data Structures
9. Algorithm Design
10. Debugging Techniques
11. Problem Solving Strategies
12. Projects and Case Studies

  
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# **SWAMI VIVEKANANDA INSTITUTE OF MODERN SCIENCE**

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## CO PO MAPPING

COs	POs
CO1: Algorithm Design and Implementation	P1,P3,P4
CO2: Proficient Use of Data Structures	P1,P3,P6
CO3: Debugging and Code Optimization	P2,P3

**Assessment procedure:** The assessment of this program was conducted using multiple choice questions.



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