



**Sandip Foundation's
Sandip Institute of Technology and Research Centre, Nashik
Department of Computer Engineering**

Activity Report

Of

**Workshop on Programming in C, C++ and Data
Structure**

(18th February to 22th February 2020)

**Organized by
Department of Computer Engineering
Sandip Institute of Technology and Research Centre, Nashik**



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Department of Computer Engineering

Name of Program: Programming in C, C++ and Data Structure

Date: 18th February to 22th February

Resource Person:

Prof. Samadhan Sonawane, Asst Prof., Computer Engg, SITRC
Prof. Tanmoy Goswami, Asst Prof., Computer Engg, SITRC.
Prof. Nikhil Suryawanshi, Asst Prof., Computer Engg, SITRC.
Prof. Sandip Walunj, Asst Prof., Computer Engg, SITRC.

Event Coordinator: Prof. Namrata Ghuse

Participants: SE Students (Computer Department)

Venue: Programming Lab, Computer Engineering Department, SITRC.

Aim:

To develop students programming skills

Objective:

1. Develop programming skills with the understanding of the fundamentals and basics of C and C++ Languages.
2. Provide complete understanding of classes and objects, constructors and destructor, and control structures.
3. Impart knowledge about data structures including linked lists, stacks & queues, and binary tree

Outcomes:

1. Student will be able to choose appropriate data structure as applied to specified problem definition.
2. Student will be able to handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures.
3. Students will be able to apply concepts learned in various domains like DBMS, compiler construction etc.



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Topics covered

1. Structured Programming, its Advantages and Disadvantages.
2. Algorithm and its types.
3. Algorithm and its properties.
4. Time Space Trade-Off of algorithms.
5. Time and Space Analysis of Algorithm.
6. Types of Recursion.
7. Data Structure types and operations associated with them.
8. Introduction of Data Structure.
9. Linked List
10. Stack
11. Queue
12. Tree
13. Graph
14. Sorting
15. Data Structure Programs using C/C++



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**Summary Report of Workshop on Programming in C, C++ and
Data Structure**

A workshop to help children to learn how to write a program using C++ language and inform them about different technologies related to it and available in the market was organized by the department of Computer Engineering, Sandip Institute of Technology and Research Center, Nashik. The seminar was organized on Date: 18th February to 22 February 2020. The lecture started with welcome & felicitation of Prof. Samadhan Sonawane, Tanmoy Goswami, Nikhil Suryawanshi, Sandip Walunj from SITRC Nashik.

The experts guided students about programming language and how it is used in our day to day life. They also explained students about various trends available in the market regarding programming and software development. They explained the students how C++ and Data Structure are used in various different software's and different algorithms help the applications to function. C++ technology is most used programming language in the IT world. The workshop was attended by 95 students.

At the end of event students appreciated the session. Students understood the importance of could technology and its use in the current industrial scenario.

The workshop concluded with vote of thanks proposed by Prof Namrata Ghuse.

Prof. Namrata Ghuse
Co-ordinator

Prof. (Dr.) Amol. D. Potgantwar
(HOD, Comp Dept.)

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Photograph:

