



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

Activity Report

On

“Data Structure using C, C++”

(14th – 20th July 2017)

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



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Activity Report On “Data Structure using c, c++”

Name of Resource Person: 1) Prof. S. A. Sonawane
2) Prof. Sandip Walunj

Date: 14th – 20th July 2017

Duration of Course: 35 hrs

Class: SE

Venue: Programming Lab, Sitrc

Aim: To develop practical knowledge about Data structure and performs the practicals using c, c++.

Objectives:

- 1) To understand classes and objects.
- 2) To understand preprocessors.
- 3) To understand the abstract data types stack, queue, deque, and list.
- 4) To be able to understand tree, Graph
- 5) To be able to recognize problem properties where stacks, queues, and deques are appropriate data structures.

Outcome:

- 1) Implement the main data structures: Lists, stacks, queues, trees, graphs and hash tables; and use them to solve computational problems.
- 2) Analyse and use the main search, sorting algorithms in data structures
- 3) Design and implement data structures to efficiently solve problems

Course Structure:

Sr. No	Topic	Duration
1	Class & Object - Introduction - Member Function - Nesting Member Function - Static Member - Array Within Class - Memory Allocation For Object - Friendly Function - Local Class	3 hrs
2	Functions - Main Function - Call By Reference - Call By Value - Return By Reference - Inline Function - Default Argument - Cont Argument - Math Library Function - Recursive Function	4 hrs
3	The C Preprocessor - Macro - File Inclusion - Conditional Compilation - The Build Process - Dynamic Memory Allocation	2 hrs
4	Inheritance - Introduction - Derived Class - Single Inheritance - Multilevel Inheritance - Multiple Inheritance - Hierarchical Inheritance - Hybrid Inheritance - Virtual Base Class - Abstract Class - Constructor	2 hrs
5	Overloading & Overriding - Function Overloading - Constructor Overloading - Operator Overloading	3 hrs

6	<p>Excetption Handling</p> <ul style="list-style-type: none"> - Introduction To Exception Handling Mechanism - Throwing Mechanism - Catching Mechanism - Re-Throwing An Exception - Specifying Exceptions 	4 hrs
7	<p>Pointer</p> <ul style="list-style-type: none"> - Introduction - Pointer To Object - This Pointer - Pointer To Derived Class - Virtual Function 	5 hrs
8	<p>Stack & Queue, Link List</p> <ul style="list-style-type: none"> - Introduction - Different Operations 	5 hrs
9	<p>Sorting, Tree & Graph</p> <ul style="list-style-type: none"> - Introduction - Different Operations 	2 hrs
10	<p>File Handling</p> <ul style="list-style-type: none"> - Classes For File Stream Operation - Opening & Closing File - File Opening Mode - File Pointer And Thrir Manipulation - Sequential Input And Output - Updating A File - Error Handling 	5 hrs
Total Hours:		35 hrs

List Of Students:

Sr. No	Name of Student
1	Rajashree Chaudhary
2	Pranali Hyalij
3	Yash Chaudhari
4	Bhagyashree Mandale
5	Nikhil Saindane
6	Mahima Naik
7	Ganesh Zatke
8	Onkar Gatkal

9	Pranita Kanukuntla
10	Aashish Pal
11	Kiran Kumawat
12	Tushar Dighe
13	Komal Savkar
14	Jayashri Sonawane
15	Aditya Patil
16	Deval Thakkar
17	Yash Avhad
18	Mohit Sonawane
19	Pooja Wale
20	Anurag Tejwani
21	Pratik Shetty
22	Aditi Khose
23	Latesh Patil
24	Niharika Singh
25	Rishabh Rayliwala
26	Viraj Pawar
27	Nikita Jadhav
28	Shubham Yadav
29	Mayur Dhanawade
30	Sneha Sharma
31	Shyampratapsingh Rathore
32	Kunj Ranpura
33	Sameer Sangle
34	Shila Shinde
35	Shraddha Patil
36	Karan Vidhate
37	Sayali Patil
38	Kalpesh Misal
39	Harish More
40	Pooja Kothule
41	Priyanka More
42	Preeti Maurya
43	Bhavana Chaudhary

44	Manisha Pandit
45	Ritika Ahire
46	Kajal Kapse
47	Ujjwala Badgujar
48	Mrunal Katkari
49	Nikita Wagh
50	Shivani Gopale
51	Rahul Patil
52	Punam Mahajan
53	Lina Shinde
54	Chiatali Mali
55	Anjali Sonawane
56	Mamta Shaha
57	Prachi Dandagaval
58	Aesha Dhanani
59	Ratna Phalak
60	Kshitij Dhanvijay
61	Sudhir Patil
62	Anil Manmothe
63	Sancheet Patil
64	Shushma Khairnar
65	Shruti Sonawane
66	Piyush Shirude
67	Vaishnavi Gangurde
68	Rohit Patil
69	Pratik Motwani
70	Zarkanaushin Khan
71	Avinash Chavan
72	Swikruti Chaudhary
73	Pranali Wagh
74	Poornima Wagh
75	Apurva Jadhav
76	Chirag Pejavar
77	Binal Vasant
78	Aiaman Peerzade

79	Mukesh Vishwakarma
80	Dipanshu Patil
81	Ashwini Avhad
82	Shubhangi Jagtap
83	Anisha Parpanathan
84	Pooja Pachorkar
85	Shubhangi Sonawane
86	Dhanashri Sonawane
87	Shivani Gosavi
88	Amruta Bhangе
89	Yogita Sonawane
90	Akshay Damale
91	Ashish Patil
92	Vijay Sonawane

Photograph of Event



Prof. S. A. Sonawane
Coordinator

Prof. (Dr.) Amol Potgantwar
Head Of Department