

Sandip Foundations Sandip Institute of Technology and Research Centre, Nashik Department of Computer Engineering

Activity Report

On

"Programming in C, C++ and Data Structure"

(18th Feb - 22nd Feb 2015)

Organized by

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

Sandip Foundations



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

Activity Report on "Programming in C, C++ and Data Structure"

Name of Resource Persons:

- 1) Prof. Samadhan Sonawane, Asst Prof., Computer Engg, SITRC.
- 2) Prof. Tanmoy Goswami, Asst Prof., Computer Engg, SITRC.
- 3) Prof. Nikhil Suryawanshi, Asst Prof., Computer Engg, SITRC.
- 4) Prof. Sandip Walunj, Asst Prof., Computer Engg, SITRC.

Date of Course: 18th Feb - 22nd Feb 2015

Duration: 30 hrs

Venue: Programming Lab, Computer Engineering Department, SITRC.

Class: Second Year Computer.

Name of Coordinator: Prof. Samadhan Sonawane, Asst Prof., Computer Engg, 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.
- 4. Students will be able to use linear and non-linear data structures like stacks, queues, linked list etc.

Course Structure:

Sr. No.	Topics	Duration
1	Introduction	2 hrs
	A Brief Introduction to Recursion	
	• C++ Classes	
	• C++ Details	
	Templates	
	Using Matrices	
2	Algorithm Analysis	3 hrs
	Mathematical Background	
	• Model	
	What to Analyze	
	Running Time Calculations	
3	Lists, Stacks, and Queues	4 hrs

	 Abstract Data Types (ADTs) The List ADT vector and list in the STL Implementation of vector Implementation of list The Stack ADT The Queue ADT 	
4	 Trees Preliminaries Binary Trees The Search Tree ADT–Binary Search Trees AVL Trees Splay Trees Tree Traversals (Revisited) B-Trees Sets and Maps in the Standard Library 	3 hrs
5	 Introduction of C, C++ What is C++? Why C++? C and C++ Exception Handling Object Oriented Programming Standard Template Library 	4 hrs
6	Types and declarations	3 hrs
7	Pointers, Arrays and Structures	2 hrs
8	 Functions Function Declarations Argument Passing Value Return Overloaded Function Names 	2 hrs

Default Arguments	
Pointer to Function	
• Macros	
9 Classes 3 h	ırs
• Classes	
Access Control	
Constructors	
Member functions	
Static members	
Destructors	
Memory allocation	
Member initialization	
10 Operator overloading 2 h	 1rs
• Introduction	115
Operator Functions	
A Complete Number Type	
Conversion Operators	
• Friends	
Large Objects	
Essential Operators	
Subscripting	
Functions Calls	
Dereferencing	
Increment and Decrement	
A String Class	
11 Derived class 2 h	
• Introduction	113
Derived Classes	
Abstract Classes	
Design of Class Hierarchies	
Class Hierarchies and Abstract	
Classes	

List of Participants:

Sr. No.	Name of Student
1	SHUBHAM SHIRISH PATIL
2	TEJASWINI SANJAY PATIL
3	ANJALI YAMAJI PAWAR
4	AKASH ANIL PHALAK
5	PRASHANT VITTHAL RAHANE
6	HARSHALA SAHEBRAO SAWANT
7	RAVINA SAGAR KUKKAR
8	POOJA DEEPAK SHAH

9	HEENA NASIR SHAIKH	
10	MAJHAR AHMAD SHAIKH	
11	APURVA VIKRAM SHEJWAL	
12	PRIYANKA DATTATREY SOLANKAR	
13	SALONI ATUL SULE	
14	ANKITA RAJENDRA SURYAWANSHI	
15	HITESH PRAMOD SURYAWANSHI	
16	PIYUSHA SUDAM SURYAWANSHI	
17	VISHAL AMBADAS THAKARE	
18	SURBHI SANJAY UNAVANE	
19	MAYUR MAVJIBHAI VAISHNAV	
20	RUTUJA SOPAN VIDHATE	
21	PRAJAKTA RAMESH YELWANDE	
22	SUDIPTA MAITI	
23	PRAJAKT VASANT JOSHI	
24	AKASH AJAY BORSE	
25	MAYANK ATUL MEHTA	
26	ANKIT SHYAMSUNDER AGRAWAL	
27	NAEEM MAHIUDDIN SHAH	
28	DHWANI MUKESH PATEL	
29	KAVITA RAJENDRA KHAIRNAR	
30	MOHIT VISHNU ADAMANAKE	
31	ANKIT UTTAM WAGH	
32	RAJNISH BRIJENDRA RAI	
33	SHYAMJI ANILKUMAR PANDEY	
34	MONIKA DATTATRAYA PAWAR	
35	KANCHAN PURUSHOTTAM CHAVHAL	
36	SHUBHANGI PANDIT INGALE	
37	GAYATRI RAJESH AHER	
38	KOMAL DEEPAK GAIKWAD	
39	DIVYA RAMESH PATIL	
40	PRANAV SADANAND AMLEKAR	
41	MANJIREE PRADIP ARVIKAR	
42	ASHWINI DAGU AVHAD	
43	PRAGATI PRASHANT BACHCHHAV	
44	DARSHANA BALASAHEB BACHHAV	
45	CHANCHAL SANJAY BAGUL	
46	SNEHAL KAILAS BHOJ	

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68 SHRIPRAKASH SHRIRAM PANDEY 69 SHUBHAM SEVASINGH PARIHAR 70 CHIRANGI RAMESHBHAI PARMAR 71 DANISHKHAN SAJIDKHAN PATHAN 72 CHAITALI PRADIP PATIL 73 HARSHALI PRASAD PATIL 74 PAVITRA MUKUNDA PATIL 75 POOJA PUNDLIK PATIL 76 VIRESH RAJIV CHIBBER 77 TEJASWINI RAJENDRA PATIL 78 SHRUTI SANJAY GOSAVI 79 ADITI ABA CHAUDHARY 80 NANDU ASHOK SARKATE 81 PARIMAL PANKAJ LOKHANDE 82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	66	PRACHI UMESH PACHPATIL	
69 SHUBHAM SEVASINGH PARIHAR 70 CHIRANGI RAMESHBHAI PARMAR 71 DANISHKHAN SAJIDKHAN PATHAN 72 CHAITALI PRADIP PATIL 73 HARSHALI PRASAD PATIL 74 PAVITRA MUKUNDA PATIL 75 POOJA PUNDLIK PATIL 76 VIRESH RAJIV CHIBBER 77 TEJASWINI RAJENDRA PATIL 78 SHRUTI SANJAY GOSAVI 79 ADITI ABA CHAUDHARY 80 NANDU ASHOK SARKATE 81 PARIMAL PANKAJ LOKHANDE 82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	67	ANIKET VIJAY PAGARE	
70 CHIRANGI RAMESHBHAI PARMAR 71 DANISHKHAN SAJIDKHAN PATHAN 72 CHAITALI PRADIP PATIL 73 HARSHALI PRASAD PATIL 74 PAVITRA MUKUNDA PATIL 75 POOJA PUNDLIK PATIL 76 VIRESH RAJIV CHIBBER 77 TEJASWINI RAJENDRA PATIL 78 SHRUTI SANJAY GOSAVI 79 ADITI ABA CHAUDHARY 80 NANDU ASHOK SARKATE 81 PARIMAL PANKAJ LOKHANDE 82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	68	SHRIPRAKASH SHRIRAM PANDEY	
71 DANISHKHAN SAJIDKHAN PATHAN 72 CHAITALI PRADIP PATIL 73 HARSHALI PRASAD PATIL 74 PAVITRA MUKUNDA PATIL 75 POOJA PUNDLIK PATIL 76 VIRESH RAJIV CHIBBER 77 TEJASWINI RAJENDRA PATIL 78 SHRUTI SANJAY GOSAVI 79 ADITI ABA CHAUDHARY 80 NANDU ASHOK SARKATE 81 PARIMAL PANKAJ LOKHANDE 82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	69	SHUBHAM SEVASINGH PARIHAR	
72 CHAITALI PRADIP PATIL 73 HARSHALI PRASAD PATIL 74 PAVITRA MUKUNDA PATIL 75 POOJA PUNDLIK PATIL 76 VIRESH RAJIV CHIBBER 77 TEJASWINI RAJENDRA PATIL 78 SHRUTI SANJAY GOSAVI 79 ADITI ABA CHAUDHARY 80 NANDU ASHOK SARKATE 81 PARIMAL PANKAJ LOKHANDE 82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	70	CHIRANGI RAMESHBHAI PARMAR	
73 HARSHALI PRASAD PATIL 74 PAVITRA MUKUNDA PATIL 75 POOJA PUNDLIK PATIL 76 VIRESH RAJIV CHIBBER 77 TEJASWINI RAJENDRA PATIL 78 SHRUTI SANJAY GOSAVI 79 ADITI ABA CHAUDHARY 80 NANDU ASHOK SARKATE 81 PARIMAL PANKAJ LOKHANDE 82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	71	DANISHKHAN SAJIDKHAN PATHAN	
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76 VIRESH RAJIV CHIBBER 77 TEJASWINI RAJENDRA PATIL 78 SHRUTI SANJAY GOSAVI 79 ADITI ABA CHAUDHARY 80 NANDU ASHOK SARKATE 81 PARIMAL PANKAJ LOKHANDE 82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	74	PAVITRA MUKUNDA PATIL	
77 TEJASWINI RAJENDRA PATIL 78 SHRUTI SANJAY GOSAVI 79 ADITI ABA CHAUDHARY 80 NANDU ASHOK SARKATE 81 PARIMAL PANKAJ LOKHANDE 82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	75	POOJA PUNDLIK PATIL	
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81 PARIMAL PANKAJ LOKHANDE 82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	79	ADITI ABA CHAUDHARY	
82 YASH SANJEEV KOLTE 83 PURANIMA HARI MULE	80	NANDU ASHOK SARKATE	
83 PURANIMA HARI MULE	81	PARIMAL PANKAJ LOKHANDE	
	82	YASH SANJEEV KOLTE	
84 VARSHA LAXMAN WAJE	83	PURANIMA HARI MULE	
	84	VARSHA LAXMAN WAJE	

85	MAHIMA NANIK AHUJA
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