



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

Activity Report

On

“Software Testing”

(6th – 13th Jan 2014)

Organized by,

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



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Activity Report on “Software Testing”

Name of resource person: Mr. Uday Wad

Duration of Event: 48 Hrs.

Date of Event: 6th to 13th Jan 2014

Class: TE & BE Computer

Venue:- Hardware Lab, Computer Engg.

Aim: To share ideas and get practical hands-on Software testing.

Objectives:

- To guide the students about the testing tools and mindset required for Software Testing in IT industries.
- learn about different concepts related to software engineering especially testing.
- To assist participants in understanding Software Testing from IT industry point of view

Outcome:

Participants learned:

1. Understanding about software testing
2. Students are able to write test cases for given problems.
3. Knowledge about what is Quality, Mindset required for Software Testing.
4. Knowledge about types of Software Testing -Static Testing & Dynamic Testing and Techniques for designing effective and efficient Test cases.

Total No. of Participants: 60

Course Structure

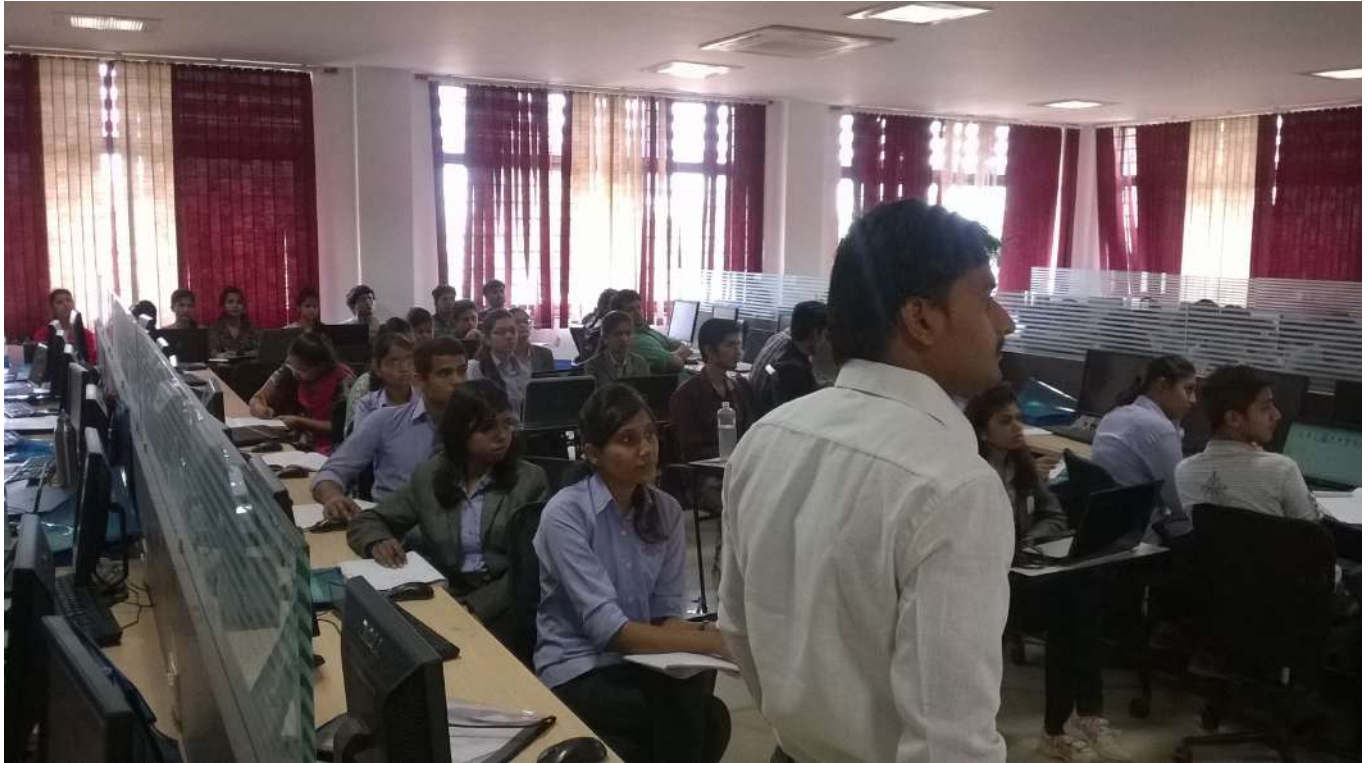
Sr. No.	Content	Duration (in Hrs.)
1	Fundamentals of Software Testing	1
2	Introduction to Testing	1
3	Soft Skills for Testers	2
4	Skills of a Software Tester	1
4.1	<ul style="list-style-type: none">• Questioning Skills	
4.2	<ul style="list-style-type: none">• Reading Skills	
4.3	<ul style="list-style-type: none">• Negative thinking	
4.4	<ul style="list-style-type: none">• Communication Skills	
4.5	<ul style="list-style-type: none">• Other Skills	
4.6	Case Study	2
	<ul style="list-style-type: none">• A Story	
	<ul style="list-style-type: none">• Software Requirement Specification Document	
4.7	Discussion -	1
	<ul style="list-style-type: none">• What are your questions?	
	<ul style="list-style-type: none">• Did you do active reading?	
	<ul style="list-style-type: none">• What are those conditions which hold back the desired result	
5	Software Verification and Validation	2
5.1	<ul style="list-style-type: none">• Verification	
5.2	<ul style="list-style-type: none">• Validation	
5.3	<ul style="list-style-type: none">• Techniques of Verification	
5.4	<ul style="list-style-type: none">• V Model	
5.5	<ul style="list-style-type: none">• Understanding the integration process	

5.6	<ul style="list-style-type: none"> Levels of Testing 		
5.7	<ul style="list-style-type: none"> Case Study 		
6	Types of Testing	4	
7	Test Planning	4	
7.1	<ul style="list-style-type: none"> Why Plan Tests 		
7.2	<ul style="list-style-type: none"> Test Plan 		
7.3	<ul style="list-style-type: none"> Test Plan template 		
7.4	<ul style="list-style-type: none"> Define mission of test group 		
7.5	<ul style="list-style-type: none"> Creating a Test Plan 		
8	Test Design	4	
8.1	<ul style="list-style-type: none"> Importance of Test Design 		
8.2	<ul style="list-style-type: none"> How To Write A Good Test Cases 		
8.3	<ul style="list-style-type: none"> What a Good Test Case Does 		
8.4	<ul style="list-style-type: none"> Test Cases Mistakes 		
8.5	<ul style="list-style-type: none"> Test Case Design Stages 		
8.6	<ul style="list-style-type: none"> Test Management Software 		
8.7	<ul style="list-style-type: none"> Template for Test Case 		
8.8	<ul style="list-style-type: none"> Testing Technique - 		
8.9	<ul style="list-style-type: none"> Case Study- 		
	<ul style="list-style-type: none"> Equivalence Class 		
	<ul style="list-style-type: none"> Boundary Value Analysis 		
9	Testing Execution	2	
9.1	<ul style="list-style-type: none"> Test Execution Objectives 		
9.2	<ul style="list-style-type: none"> Execution Considerations 		
9.3	<ul style="list-style-type: none"> Execution Activities 		

9.4	<ul style="list-style-type: none"> • When to Stop Testing 		
10	Automation Tools - Selenium	2	
11	Debugging	2	
11.1	<ul style="list-style-type: none"> • Breakpoints 		
11.2	<ul style="list-style-type: none"> • Startpoints 		
11.3	<ul style="list-style-type: none"> • Stepping through Test Case 		
11.4	<ul style="list-style-type: none"> • Locator Assistance 		
12	Record, Edit and Playback	2	
13	Verifications and Assert	2	
14	Testlink	2	
15	Planning	2	
15.1	<ul style="list-style-type: none"> • Test Management 		
15.2	<ul style="list-style-type: none"> • Test Plan Management 		
15.3	<ul style="list-style-type: none"> • Assign user roles 		
15.4	<ul style="list-style-type: none"> • Build Management 		
15.5	<ul style="list-style-type: none"> • Milestone Management 		
16	Test Execution	2	
16.1	<ul style="list-style-type: none"> • Executing Test Suites 		
16.2	<ul style="list-style-type: none"> • Executing Test Cases 		
16.3	<ul style="list-style-type: none"> • Test Reports 		
17	Test Results and Metrics	2	
17.1	<ul style="list-style-type: none"> • General Test Plan Metrics 		
17.2	<ul style="list-style-type: none"> • Overall Build Status 		
17.3	<ul style="list-style-type: none"> • Query Metrics 		

17.4	<ul style="list-style-type: none"> Failed Test Cases 		
17.5	<ul style="list-style-type: none"> Blocked Test Cases 		
17.6	<ul style="list-style-type: none"> Not run Test Cases 		
17.7	<ul style="list-style-type: none"> Test Report 		
17.8	<ul style="list-style-type: none"> Charts 		
18	Defect Tracking	2	
18.1	<ul style="list-style-type: none"> Defect lifecycle. 		
18.2	<ul style="list-style-type: none"> Error, Fault and failure. 		
18.3	<ul style="list-style-type: none"> Defect Report 		
18.4	<ul style="list-style-type: none"> Analyzing Failure 		
18.5	<ul style="list-style-type: none"> Writing Good Defect Reports Case Study 1 and 2 		
19	Planning and Design	2	
19.1	<ul style="list-style-type: none"> Creating Test Plan and Test Cases 		
20	Execution	2	
20.1	<ul style="list-style-type: none"> Execute Test Cases 		
20.2	<ul style="list-style-type: none"> Report Defects 		
21	Result Analysis	1	
21.1	<ul style="list-style-type: none"> Calculate Metrics and Analyze the Results 		

Photographs:



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