



Sapthagiri College of Engineering
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560057

Department of Information Science and Engineering


CIRCULAR

13/07/2015

All the faculties are hereby informed to attend the meeting in the HOD's Office at 10.30 AM on 15/07/15 to discuss about the Faculty Development Program on Software Testing.


HOD ISE

Department of
Information Science & Engg
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road,
BANGALORE - 560057


Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057



Sapthagiri College of Engineering
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru – 560057

Department of Information Science and Engineering

CIRCULAR

25/07/2015

All the Faculties of Information Science and Engineering Department are here by informed to attend five days Faculty Development Program on “Recent Trends on Software Testing” from 27th July 2015 to 31st July 2015.

Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
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HOD ISE

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BANGALORE - 560 057.

Minutes of Meeting

A meeting of all the faculties was held on 15-07-2015 at HOD's office, Department of ISE, Sapthagiri College of Engineering Prof Prerana Chaithra Associate Professor & Head chaired the meeting and greeted all faculties.

In the meeting the schedule and budget of five days FDP on Recent trends on Software Testing was discussed and approved by the HOD.

Detailed Schedule

DAY 1

Date: 27/07/2015

Time	Topics
2:30 pm To 4:00 pm	Introduction

Date: 28/07/2015

DAY 2

Time	Topics
08:30 am To 10:15 am	Basics of Software Testing: Basic definitions, Software Quality , Requirements, Behaviour and Correctness, Correctness versus Reliability, Testing and Debugging.
Tea Break	
10:30am To 12:30pm	Test cases, Insights from a Venn diagram, Identifying test cases, Test-generation Strategies, Test Metrics, Error and fault taxonomies , Levels of testing, Testing and Verification, Static Testing.
Lunch Braek	
01:30pm To 03:00pm	Problem Statements: Generalized pseudo code, the triangle problem, the NextDate function, the commission problem, the SATM (Simple Automatic Teller Machine) problem, the currency converter, Saturn windshield wipe
03:15pm To 04:00pm	Functional Testing: Boundary value analysis, Robustness testing, Worst-case testing, Robust Worst testing for triangle problem, NextDate problem and commission problem, Equivalence classes, Equivalence test cases for the triangle problem.

DAY 3

Date: 29/07/2015

Time	Topics
08:30am To 10:15am	Next Date function, and the commission problem, Guidelines and observations, Decision tables, Test cases for the triangle problem,

To 10:15am	Decision tables, Test cases for the triangle problem,
Tea Break	
10:30am To 12:30pm	Next Date function, and the commission problem, Guidelines and observations.
Lunch Break	
01:30pm To 03:00pm	Fault Based Testing: Overview, Assumptions in fault based testing, Mutation analysis, Fault-based adequacy criteria, Variations on mutation analysis.
Tea Break	
03:15pm To 04:15pm	Structural Testing: Overview, Statement testing, Branch testing, Condition testing, Path testing: DD paths, Test coverage metrics, Basis path testing, guidelines and observations, Data –Flow testing: Definition-Use testing, Slicebased testing, Guidelines and observations.

DAY 4

Date: 30/07/2015

Time	Topics
08:30am To 10:15am	Test Execution: Overview of test execution, from test case specification to test cases, Scaffolding, Generic versus specific scaffolding, Test oracles, Self-checks as oracles, Capture and replay
Tea Break	
10:30am To 12:30pm	Process Framework : Basic principles: Sensitivity, redundancy, restriction, partition, visibility, Feedback, the quality process, Planning and monitoring, Quality goals, Dependability properties ,Analysis Testing, Improving the process, Organizational factors.
Lunch Break	
01:30pm To 03:00pm	Planning and Monitoring the Process: Quality and process, Test and analysis strategies and plans, Risk planning, monitoring the process, Improving the process, the quality team.
Tea Break	
03:15pm To 04:15pm	Integration and Component-Based Software Testing: Overview, Integration testing strategies, Testing components and assemblies. System, Acceptance and Regression Testing: Overview, System testing, Acceptance testing,

Date: 31/07/2015

Day 5

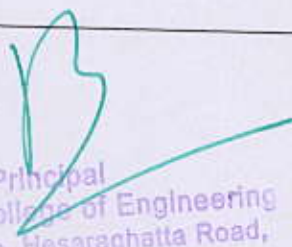
Time	Topics
08:30am To 10:15am	Usability, Regression testing, Regression test selection techniques, Test case prioritization and selective execution.
Tea Break	
10:30am To	Levels of Testing, Integration Testing: Traditional view of testing levels. Alternative



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12:30pm	life-cycle models, The SATM system, Separating integration and system testing
Lunch Break	
01:30 pm Te 03:00pm	A closer look at the SATM system, Decomposition-based, call graph-based, Path-based integrations.


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Coordinator



**Five Days FDP
On**

**“Recent Trends of Software
Testing”**

FROM 27th JULY 2015 to 31st JULY 2015

Organized by

**Department of
Information Science and
Engineering**



Sapthagiri College of Engineering

**#14/5, Chikkasandra, Hesaraghatta Main
Road, Bengaluru 560057**

Phone: 080-28372800/01/02/0

About the College

Sapthagiri Group of Institutions is the creation of Sri Srinivasa Educational & Charitable trust, Bengaluru. Sapthagiri College of Engineering is the brainchild of honorable Sri Giriappa, Founder Chairman and Sri. G. Dayanand, Chairman of Sri Srinivasa Educational & Charitable trust. Sri G.D. Manoj, is the Executive Director of SCE. SCE began its glorious journey in the year 2004. It is approved and accredited by AICTE, New Delhi and is affiliated to VTU Belagavi, Karanataka. The campus of Sapthagiri College of Engineering is spread across 6.5 acres of lush green land with beautiful landscape. The area enjoys pleasant atmosphere throughout the year. The college has secured 22 University ranks and 4 Gold medals.

Vision

To create and maintain an enabling learning environment for the students to transform them as thorough professionals to meet diverse professional demands of global environments.

Mission

To provide quality education to the students to pursue courses in different engineering disciplines and to transform their professional dreams into reality and to offer competent budding professionals to the society.

About the Department:

The Information Science and Engineering Department had its beginning in the year 2001 with an intake of 120 students, and is one of the pioneering departments at Sapthagiri College of Engineering. The Department has well qualified and dedicated faculty members, who always put in their best efforts to ensure that quality education is imparted to students. The Department will be striving in the progressive path to achieve excellence in academics and research activities. Apart from the

qualified faculty and staff, the Department has state-of-the-art laboratories and latest software's.

About the FDP:

Its objectives are

- To know the latest software's used in the field of testing.
- To understand different techniques used in these softwares.

Resource Person:

M.S Patel
Associate Professor
Department of CSE

Dayanandsagar College of Engineering
Bangalore

**Address for
Communication/Registration**

Prof. Gayatri R
Assistant Professor, CSE
Ph: 8147290734

Prof. Ramya R.
Assistant Professor
Ph: 8884816537

Email-id for registration:

gayatrirkrishna@sapthagiri.edu.in

FDP on "Recent Trends on Software Testing" Attendance

Sl No	Faculty Name	27.7.15		28.7.15		29.7.15		30.7.15		31.7.15	
		MS	AS	MS	AS	MS	AS	MS	AS	MS	AS
1	Prof Chaithra	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai	Chai
2	Prof Malathi K P	CP	CP	CP	CP	CP	CP	CP	CP	CP	CP
3	Prof Ravichandra M	R	R	R	R	R	R	R	R	R	R
4	Prof Vasantha akshmi	V	V	V	V	V	V	V	V	V	V
5	Prof Prakruthi S T	P	P	P	P	P	P	P	P	P	P
6	Prof Vijay Kumar F G	Vj	Vj	Vj	Vj	Vj	Vj	Vj	Vj	Vj	Vj
7	Prof Shruthi K										
8	Prof Vindhya G	Vind	Vind	Vind	Vind	Vind	Vind	Vind	Vind	Vind	Vind
9	Prof Anitha K	AK	AK	AK	AK	AK	AK	AK	AK	AK	AK
10	Prof Gayatri Rayar	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri	Gayatri
11	Prof Sowmya Sornath	Sowmya	Sowmya	Sowmya	Sowmya	Sowmya	Sowmya	Sowmya	Sowmya	Sowmya	Sowmya
12	Prof Sanjay Kumar	S	S	S	S	S	S	S	S	S	S
13	Prof Gayatri R	GR	GR	GR	GR	GR	GR	GR	GR	GR	GR
14	Prof Divyashree	D	D	D	D	D	D	D	D	D	D

RS
Coordinator

B
Principal
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
Report on Recent Trends on Software Testing


No of Participants =14

Aiming to provide an Faculty Development Program on Software Testing for the faculties of Department of Information Science Engineering, Sapthagiri College of Engineering held during 27th July 2015 to 31st July 2015. Overall the faculties felt that the session was informative & gained knowledge about Software Testing and its applications. The Resource Person for this FDP is Prof M.S Patel, Associate Professor, Department of ISE, Dayanand Sagar College of Engineering. Faculties were able to understand the recent trends such as agile testing ,test automation, API and services test automation, and various testing methods were discussed along with some examples.



FDP on Software Testing by Prof M.S Patel


Coordinator


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Certificate

This is to Certify that Mr./Ms. RAVICHANDRA M
of Information Science & Engineering has participated
and successfully completed Five days Faculty Development Program on
"Recent Trends on Software Testing" from 27th July, 2015 to 31st
July, 2015 organized by the Department of Information Science &
Engineering, Sapthagiri College of Engineering.

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Principal

HOD,  Dept of ISE


Principal