

IT 6004 – SOFTWARE TESTING

Corresponding Lab, with code (If any) : -

Course Prerequisites: CS6403 Software Engineering

Course Outcomes

On successful completion of this course, the student will be able to

IT 6004.1	To understand the testing principles, testers role in software development organization and Defects analysis
IT 6004.2	To understand how to design test cases suitable for a software development for different domains and to identify suitable tests to be carried out.
IT 6004.3	Understand the different levels of testing and how testing is applied in OO systems
IT 6004.4	Understand how to prepare test planning based on document and how to document the test plan and test cases designed
IT 6004.5	Understand the use of automatic testing tools and how to validate the test plans using testing metrics.

MAPPING BETWEEN CO AND PO, PSO WITH CORRELATION LEVEL 1/2/3

IT6004	POs												PSOs			
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3	PSO4
IT 6004.1	1	1	1	1	0	2	1	1	2	2	1	2	1	1	1	2
IT 6004.2	1	1	2	1	0	1	0	1	2	2	2	2	1	2	2	2
IT 6004.3	0	1	1	1	0	1	0	0	2	2	2	2	0	1	1	1
IT 6004.4	0	0	2	0	1	0	0	1	2	2	2	2	0	2	1	1
IT 6004.5	1	2	1	2	2	0	0	0	2	1	2	2	1	1	1	2

UNIT I - IT6004.1

Sl. No.	Course Content	Knowledge level	No. of Hrs to be handled	Books Referred
1	Testing as an Engineering Activity – Testing as a Process – Testing axioms	U	1	R1, WSR1
2	Software Testing Principles	U & Ap	2	R1
3	The Tester's Role in a Software Development Organization	U	1	R1
4	Origins of Defects – Cost of defects	U	2	R1
5	Defect Classes – The Defect Repository and Test Design	U	1	R1
6	Defect Examples, Developer /Tester Support of Developing a Defect Repository	U & Ap	1	R1
7	Defect Prevention strategies.	U & Ap	2	R1

Unit II - IT6004.2

Sl. No.	Course Content	Knowledge level	No. of Hrs to be handled	Books Referred
1	Test case Design Strategies – Using Black Box Approach to Test Case Design	U	1	T1
2	Random Testing – Requirements based testing	U & Ap	1	T1
3	Boundary Value Analysis	R	1	T1, WSR2
4	Equivalence Class Partitioning	R	1	T1, WSR2
5	State based testing – Cause-effect graphing	U	1	T1
6	Compatibility testing – user documentation testing – domain testing	U	1	T1
7	Using White Box Approach to Test design – Test Adequacy Criteria	U & Ap	1	T1
8	static testing vs. structural testing – code functional testing	U	1	T1
9	Coverage and Control Flow Graphs – Covering Code Logic	U & Ap	1	T1, WSR2
10	Paths – code complexity testing – Evaluating Test Adequacy	U & E	1	T1, WSR2

Unit III - IT6004.3

Sl. No.	Course Content	Knowledge level	No. of Hrs to be handled	Books Referred
1	The need for Levels of Testing – Unit Test – Unit Test Planning	R & Ap	1	T1
2	Designing the Unit Tests – The Test Harness – Running the Unit tests and Recording results	U & Ap	1	T1
3	Integration tests – Designing Integration Tests – Integration Test Planning	R & Ap	1	T1

4	Scenario testing – Defect bush elimination System Testing	R & Ap	1	T1
5	Acceptance testing – Performance testing – Regression Testing	R	1	T1
6	Internationalization testing – Ad-hoc testing – Alpha, Beta Tests	R & U	1	T2
7	Testing OO systems – Usability and Accessibility testing	U	2	T2
8	Configuration testing – Computibility testing	R & U	1	T2
9	Testing the documentation – Website testing.	U & An	2	T2

Unit IV - IT6004.4

Sl. No.	Course Content	Knowledge level	No. of Hrs to be handled	Books Referred
1	People and organizational issues in testing	U & An	1	T1
2	Organization structures for testing teams, testing services	U & Ap	2	T1
3	Test Planning – Test Plan Components	U & An	1	T1
4	Test Plan Attachments	U & An	1	T1
5	Locating Test Items – test management – test process	U	2	T1
6	Reporting Test Results – The role of three groups in Test Planning and Policy Development	U & An	2	T1
7	Skills needed by a test specialist	U	1	R1
8	Building a Testing Group.	U	1	R1

Unit V - IT6004.5

Sl. No.	Course Content	Knowledge level	No. of Hrs to be handled	Books Referred
1	Software test automation	U	1	T1, WSD
2	Skill needed for automation	U	1	T1
3	Scope of automation	U	1	T1
4	Design and architecture for automation	U & Ap	2	T1
5	Requirements for a test tool and challenges in automation	U & An	2	T1
6	Project Metrics	U & E	2	T1
7	Progress Metrics	U & E	1	T1
8	Productivity Metrics	U & E	2	T1

R – Remember; Ap – Apply; An – Analyze; U – Understand; E- Evaluate ;C-Create

Sl. No.	Content beyond syllabus	PO mapping	PSO mapping
1.	Creating an environment supportive for software testing	b, d, e, f, g	a, b, c

TEXT BOOKS:

1. Srinivasan Desikan and Gopalswamy Ramesh, "Software Testing – Principles and Practices", Pearson Education, 2006.

2. Ron Patton, "Software Testing", Second Edition, Sams Publishing, Pearson Education, 2007.

REFERENCES:

1. Ilene Burnstein, "Practical Software Testing", Springer International Edition, 2003.

2. Edward Kit, "Software Testing in the Real World – Improving the Process", Pearson Education, 1995.

WEB SOURCE REFERENCES:

1. www.softwaretestingclass.com

2. www.softwaretestinghelp.com

3. www.testingtools.com/test-automation

OBJECTIVES:

The student should be made to:

- Expose the criteria for test cases.
- Learn the design of test cases.
- Be familiar with test management and test automation techniques.
- Be exposed to test metrics and measurements.

UNIT I INTRODUCTION 9

Testing as an Engineering Activity – Testing as a Process – Testing axioms – Basic definitions – Software Testing Principles – The Tester's Role in a Software Development Organization – Origins of Defects – Cost of defects – Defect Classes – The Defect Repository and Test Design – Defect Examples – Developer/Tester Support of Developing a Defect Repository – Defect Prevention strategies.

UNIT II TEST CASE DESIGN 9

Test case Design Strategies – Using Black Box Approach to Test Case Design – Random Testing – Requirements based testing – Boundary Value Analysis – Equivalence Class Partitioning – Statebased testing – Cause-effect graphing – Compatibility testing – user documentation testing – domain testing – Using White Box Approach to Test design – Test Adequacy Criteria – static testing vs. structural testing – code functional testing – Coverage and Control Flow Graphs – Covering Code Logic – Paths – code complexity testing – Evaluating Test Adequacy Criteria.

UNIT III LEVELS OF TESTING 9

The need for Levers of Testing – Unit Test – Unit Test Planning – Designing the Unit Tests – The Test Harness – Running the Unit tests and Recording results – Integration tests – Designing Integration Tests – Integration Test Planning – Scenario testing – Defect bash elimination System Testing – Acceptance testing – Performance testing – Regression Testing – Internationalization testing – Ad-hoc testing – Alpha, Beta Tests – Testing OO systems – Usability and Accessibility testing – Configuration testing – Compatibility testing – Testing the documentation – Website testing.

UNIT IV TEST MANAGEMENT 9

People and organizational issues in testing – Organization structures for testing teams – testing services – Test Planning – Test Plan Components – Test Plan Attachments – Locating Test Items – test management – test process – Reporting Test Results – The role of three groups in Test Planning and Policy Development – Introducing the test specialist – Skills needed by a test specialist – Building a Testing Group.

UNIT V TEST AUTOMATION 9

Software test automation – skill needed for automation – scope of automation – design and architecture for automation – requirements for a test tool – challenges in automation – Test metrics and measurements – project, progress and productivity metrics.

TOTAL: 45 PERIODS**OUTCOMES:**

At the end of the course the students will be able to

- Design test cases suitable for a software development for different domains.
- Identify suitable tests to be carried out.
- Prepare test planning based on the document.
- Document test plans and test cases designed.
- Use of automatic testing tools.
- Develop and validate a test plan.

TEXT BOOKS:

1. Srinivasan Desikan and Gopalswamy Ramesh, "Software Testing – Principles and Practices", Pearson Education, 2006.
2. Ron Patton, "Software Testing", Second Edition, Sams Publishing, Pearson Education, 2007.

REFERENCES:

1. Ilene Burnstein, "Practical Software Testing", Springer International Edition, 2003.
2. Edward Kit, "Software Testing in the Real World – Improving the Process", Pearson Education, 1995.
3. Boris Beizer, "Software Testing Techniques" – 2nd Edition, Van Nostrand Reinhold, New York, 1990.
4. Aditya P. Mathur, "Foundations of Software Testing_ Fundamental Algorithms and Techniques", Dorling Kindersley (India) Pvt. Ltd., Pearson Education, 2008.



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OMR, CHENNAI - 600 119

SUMMARY OF CLASS WORK
RECORD OF ATTENDANCE AND ASSESSMENT

Name of the Staff: C. J. Raman

Department of the Staff: IT

Semester From: June 2017 To Sep 2017

Class & Branch: IV year IT - A

Code No. / Subject Name: 101 Software Testing

SYLLABUS COVERAGE

Unit No.	Started on	Completed on	No. of hours	Sign of staff with Date	Sign of HO with Date
<u>I</u>	5/6/17	14/6/17	10	<i>Uguz</i> 21/6/17	<i>A/B</i> 21/6/17
<u>II</u>	14/6/17	5/7/17	10	<i>Uguz</i> 5/7/17	<i>A/B</i> 11/7/17
<u>III</u>	5/7/17	15/7/17	12	<i>Uguz</i> 15/7/17	<i>A/B</i> 15/7/17
<u>IV</u>	17/7/17	4/8/17	12	<i>Uguz</i> 4/8/17	<i>A/B</i> 7/8/17
<u>V</u>	4/8/17	4/9/17	11	<i>Uguz</i> 4/9/17	<i>A/B</i> 9/9/17

TIME TABLE

Period / Day	1	2	3	4	5	6	7	8	9	10
Monday				IT 6004						
Tuesday		IT 6004								
Wednesday								IT 6004	IT 6004	
Thursday									IT 6004	
Friday			IT 6004	IT 6004						

LESSON PLAN

Unit: I From 5/6/17 To 22/6/17 No. of Hours: 10

Sl. No.	TOPICS TO BE COVERED	BOOKS TO BE REFERRED
1.	Testing - Basic definition & Introduction	
2.	Testing as an Engineering Activity	
3.	Testing as a process	
4.	Testing axioms	
5.	Software Testing Principle	
6.	Tester's Role in software development organization	Irene Burnstein, "Practical Software Testing", Springer International Edition, 2003
7.	Origin of defects, cost of defects	
8.	Defect Classes & Defect Repository	
9.	Test Design & Defect Examples	
10.	Developer / Tester Support - Defect Repository Defect Prevention Strategies	

LESSON PLAN

Unit: IT

From 23/5/17 To 11/7/17

No. of Hours: 10

Sl. No.	TOPICS TO BE COVERED	BOOKS TO BE REFERRED
1.	Test Case Design Strategies - Using Black Box Approach to Test Case Design	
2.	Random testing - Requirements based testing	
3.	Boundary Value Analysis	Srinivasan Desikan, Appalaswamy Ramesh,
4.	Equivalence Class Partitioning	"Software Testing Principles & Practices", Pearson
5.	State based testing - Cause-effect graphing	
6.	Compatibility testing - User documentation testing - domain testing	Education 2006
7.	Using White Box Approach to Test design - Test Adequacy criteria	
8.	Static testing is Structural testing - code-fragmentation	
9.	Coverage and Control Flow graph covering code logic	
10.	Paths - code complexity testing - Evaluating test adequacy criteria	

LESSON PLAN

Unit: III From 12/7/17 To 4/8/17 No. of Hours: 10

Sl. No.	TOPICS TO BE COVERED	BOOKS TO BE REFERRED
1.	The need for levels of testing - Unit Test Planning	
2.	Designing the Unit Test - The Test Harness. Running the Unit Test and Recording results	
3.	Integration tests - Designing Integration Tests Integration test Planning	Srinivasan <u>Business Expectations</u> Ramsch, "Software Testing"
4.	Scenario testing - Defect test elimination for Testing	Principles & Practices", Pearson Education, 2004
5.	Acceptance testing - Performance testing - Regression testing	
6.	Internationalization testing - Ad hoc testing Alpha testing and Beta testing	Ron Patton, "Software Testing", 2nd Edition, Sans Publishing, Pearson Education, 2007
7.	Testing Object Oriented systems	
8.	Usability and Accessibility testing	
9.	Configuration testing - Compatibility testing	
10.	Testing the documentation - Website Testing	

LESSON PLAN

Unit: IV

From 5/8/17 To 24/8/17

No. of Hours: 10

Sl. No.	TOPICS TO BE COVERED	BOOKS TO BE REFERRED
1.	People and Organizational Issue in testing	
2.	Organization Structures for testing teams, testing services	
3.	Test Planning - test Plan components	Subivertan Desikan, Copalibrary
4.	Test Plan Attachments	Ramesh "Software testing"
5.	Locating test Teams, Test management - test process	Principles & Practices, Pearson Education, 2006
6.	Reporting test Results	
7.	The role of three groups in Test Planning and Policy Development	Tlene Bunnstein, "Practical
8.	Introducing the test specialist	Software testing, Springer
9.	Skills needed by a test Specialist	International edition, 2003
10.	Building a testing Group	

LESSON PLAN

Unit : _____

From _____ To _____

No. of Hours : _____

Sl. No.

TOPICS TO BE COVERED

BOOKS TO BE REFERRED

(The main content area of the lesson plan is crossed out with a diagonal line.)

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STAFF SIGNATURE

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HOD SIGNATURE

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PRINCIPAL

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CHAIRMAN &
MANAGING DIRECTOR

2/6/17

2/6/17

2/6/17

2/6/17

UNIT	TEST 1	EXAM 1	UNIT 1	TEST 2	TEST 2	EXAM 2	UNIT 2	TEST 2	UNIT 2	UNIT 2
(40)	(30)	(100)	(80)	(40)	(30)	(100)	(80)	(30)	(100)	(80)
02	01	03	45	04	15	45	48	22	61	
35	27	80		26	30	68		25	74	
AB1	20	68		22	19 20	28	40	17	67	
-0-	07	-0-	44	02	02	35	48	11	25	45
11	12	01	56	21	04	25	56	26	66	
-0-	05	04	40	02	02	05		05	33	56
24	22	50		27	27	AB1	60	27	64	
30	11	08	42	-0-	-0-	16		15	51	
28	24	75		28	27	13		29	84	
-0-	01	-0-	46	-0-	AB1	25	45	05	45	
10	06	23	42	11	07	31	40	13	66	
02	03	02	48	02	01	03		12	30	56
13	15	45	56	24	15	16		22	79	
20	19	52	56	24	08	25	56	13	72	
22	12	57		20	18	50		14	46	
17	20	63		28	29	68		30	74	
07	01	04	44	20	01	11		08	57	
42	26	79		42	28	86		29	78	
32	23	39	56	26	20	60		21	73	
-0-	13	03	48	21	15	27	56	13	AB	60
21	08	12	48	10	10	11		23	65	
08	08	25	42	05	08	10		10	54	
20	23	49	56	16	11	05	56	24	67	
-0-	09	05	56	26	17	12		30	62	
24	11	25 46	56	30	19	25	48	15	63	

SUMMARY OF CLASS WORK

DATE: 5/6/17

PERIOD: 4

TOTAL NO. OF CLASS 1

UNIT: I

- * Introduction
- Need for Testing
- * Engineering Approach to software development
- * Elements of Engineering disciplines

DATE: 6/6/17

PERIOD: 2

TOTAL NO. OF CLASS 2

UNIT: I

- * Test Specialist
- * The Role of Process in Software Quality
 - practices
 - process

DATE: 7/6/17

PERIOD: 8, 9

TOTAL NO. OF CLASS 4

UNIT: I

- * Testing as a process
 - Definition - Testing
 - verification
 - validation
 - * Activities of Testing Domain

Sign of GOD with Date


SUMMARY OF CLASS WORK

DATE: 8/6/17 PERIOD: 9 TOTAL NO. OF CLASS 5 UNIT: I

- * Testing Maturity Model
 - Levels
- * Testing Principles
 - Role of Tester in SW Development Organization

DATE: 9/6/17 PERIOD: 3, 4 TOTAL NO. OF CLASS 7 UNIT: I

- * Difficulties and Challenges of Tester
- * Origin of Defects
 - Education
 - Communication
 - Oversight
 - Transcription
 - Process

DATE: 12/6/17 PERIOD: 4 TOTAL NO. OF CLASS 8 UNIT: I

- * Defect Classes
 - Requirements/Specification
 - Design
 - Coding
 - Testing

Signature of HOD with Date

SUMMARY OF CLASS WORK

DATE: 27/6/17 PERIOD: 2 TOTAL NO. OF CLASS 14 UNIT: II

- * Cause and Effect Graphing Approach
- Example
- * Error Guessing

DATE: 28/6/17 PERIOD: 8,9 TOTAL NO. OF CLASS 16 UNIT: II

- * Stat Transition Testing
- * Configuration Testing
- * Compatibility Testing
- * Domain Testing
- * White Box Approach
- Test Adequacy Criteria

DATE: 29/6/17 PERIOD: 9 TOTAL NO. OF CLASS 17 UNIT: II

- * Static testing vs Structural testing
- * Code-functional testing

Sign of HOD with Date



SUMMARY OF CLASS WORK

DATE: 3/7/17

PERIOD: 4

TOTAL NO. OF CLASS

18

UNIT :

II

* Coverage and Control flow graphs

* Covering Code Logic

DATE: 3/7/17

PERIOD: 4

TOTAL NO. OF CLASS

18

UNIT :

II

DATE: 4/7/17

PERIOD: 9

TOTAL NO. OF CLASS

19

UNIT :

II

* Paths - example

* Code complexity testing

- example & explanation

DATE: 5/7/17

PERIOD: 8, 9

TOTAL NO. OF CLASS

21

UNIT :

II, III

DATE: 5/7/17

PERIOD: 8, 9

TOTAL NO. OF CLASS

21

UNIT :

II, III

* Evaluating Test adequacy criteria

- Testing Axioms

Levels of Testing

- Introduction

- Need for the levels of testing

Sign of MOD with Date

SUMMARY OF CLASS WORK

DATE: 6/1/17 PERIOD: 9 TOTAL NO. OF CLASS 22 UNIT: III

- * Unit Test
 - Basics
- * Programming paradigms
 - (Mtl in procedural & object oriented languages)

DATE: 10/1/17 PERIOD: 4 TOTAL NO. OF CLASS 23 UNIT: III

- * Unit Test Planning
 - Designing the Unit Test
 - Development phases for Unit testing
 - Phase - 1 Describing the Approach & Risk
 - Phase - 2 Thinking the Testcase
 - Phase - 3 Adding levels of details

DATE: 12/1/17 PERIOD: 8,9 TOTAL NO. OF CLASS 25 UNIT: III

- * Issues in testing
- * Test harness
- * Running the test & Recording the results
- * Integration test
 - Integration in (procedural) object oriented systems

Sign of MOD with Date


SUMMARY OF CLASS WORK

DATE: 6/17/17 PERIOD: 9 TOTAL NO. OF CLASS 22 UNIT: III

- * Unit Test
 - Basics
- * Programming paradigms
 - Unit in procedural & object oriented languages

DATE: 10/17/17 PERIOD: 4 TOTAL NO. OF CLASS 23 UNIT: III

- * Unit Test Planning
 - Designing the Unit Test
 - Development phases for unit testing
 - Phase - 1 Describing the Approach & Risk
 - Phase - 2 Identifying the features
 - Phase - 3 Adding levels of details

DATE: 12/17/17 PERIOD: 8,9 TOTAL NO. OF CLASS 25 UNIT: III

- * Issues in testing
- * Test harness
- * Running the test & Recording the results
- * Integration test
 - procedures
 - object oriented systems

Sign of MOD with Date


SUMMARY OF CLASS WORK

DATE: 13/11/17 PERIOD: 2, 9 TOTAL NO. OF CLASS 27 UNIT: III

- * Designing Integration Test
- * Planning Integration Test
- * Cluster Test Plan
- * System Test
- Functional Testing
- Performance Testing
- Stress Testing
- Configuration Testing

DATE: 14/11/17 PERIOD: 3, 4, 6 TOTAL NO. OF CLASS 30 UNIT: III

- * Security Testing
- * Recovery Testing
- * Regression Testing
- * Internationalization & Localization Testing
- * Adhoc Testing
- * Alpha, Beta and Acceptance Testing
- * Usability and User Interface Testing
- * Compatibility Testing

DATE: 15/11/17 PERIOD: 3, 4 TOTAL NO. OF CLASS 32 UNIT: III

- * Testing the Documentation
- Documentation testing Checklist

- * Website Testing
- Black box, White box & Grey box
- Configuration & Compatibility Testing

Sign of HOD with Date 

SUMMARY OF CLASS WORK

DATE: 17/7/17 PERIOD: 4 TOTAL NO. OF CLASS 33 UNIT: IV

- * People and Organizational Issues in Testing
 - Perceptions & misconceptions about testing
 - Not challenging
 - No ownership
 - Not following Career path
 - Systemic purpose
 - What is wrong with me
 - Adversaries

DATE: 19/7/17 PERIOD: 4.5 TOTAL NO. OF CLASS 35 UNIT: IV

- * Comparison between testing & Development function
- * Areas of progression in testing career
- Career progression & Responsibilities of team members
 - Test Engineer
 - Test Lead
 - Senior Test Engineer
 - Project Manager
 - Test Architect

DATE: 21/7/17 PERIOD: 3,4 TOTAL NO. OF CLASS 37 UNIT: IV

- * Organizational Structures for Testing Team
 - Dimensions - Organization type - Geographic distribution
- * Testing Team Structures for
 - Single product company
 - Multi product company

Sign of HOD with Date 

SUMMARY OF CLASS WORK

DATE: 29/7/17 PERIOD: 6 TOTAL NO. OF CLASS 38 UNIT: IV

- * Options for Organizing Testing Teams:
 - Advantages:

DATE: 31/7/17 PERIOD: 4 TOTAL NO. OF CLASS 39 UNIT: IV

- * Organizational Structures for distributing Testing Teams
 - Challenges in global teams
 - Test planning
 - Hierarchy of test plan

DATE: 1/8/17 PERIOD: 2 TOTAL NO. OF CLASS 40 UNIT: IV

- * Test Plan Components
 - Explanation

Sign of HOD with Date

18/8/17

SUMMARY OF CLASS WORK

DATE: 2/8/17

PERIOD: 8,9

TOTAL NO. OF CLASS

42 UNIT:

IV

- * Test Plan Attachments
- Test Design Specification
- Test Case Specification
- Test Procedure Specification
- * Steps in Procedure
- * Locating Test Items
- Test Item Transmittal Report
- Reporting Test Results

DATE: 3/8/17

PERIOD: 9

TOTAL NO. OF CLASS

43 UNIT:

IV

- * Test Log
- * Test Incident Report
- * Test Summary Report
- * Relationships between all the test related documents
- * The role of three groups in Test Planning and Policy Development

DATE: 4/8/17

PERIOD: 3,4

TOTAL NO. OF CLASS

45 UNIT:

IV, V

- * Introducing the Test Specialist
 - Responsibilities
 - Skills needed
 - Personal & Managerial Skills
 - Technical Skills
- * Building a Test Group - Steps
- * Software Test Automation
 - Introduction

Sign of HOD with Date

SUMMARY OF CLASS WORK

DATE: 7/8/17 PERIOD: 4 TOTAL NO. OF CLASS 46 UNIT: V

- * Automation
- Skill needed for Automation

DATE: 8/8/17 PERIOD: 2 TOTAL NO. OF CLASS 47 UNIT: V

- * Scope of Automation
- Generations of Automation
 - First generation
 - Second generation
 - Third generation

DATE: 16/8/17 PERIOD: 8,9 TOTAL NO. OF CLASS 49 UNIT: V

- * Design and Architecture for Automation
 - Block diagram & module explanation
 - Tools & Result modules
 - Report Generator
- External modules
- Scenario & Configuration File modules



Sign of HOD with Date

SUMMARY OF CLASS WORK

DATE: 17/8/17 PERIOD: 9 TOTAL NO. OF CLASS 50 UNIT: V

- * Requirements for a Test Tool
- * Criteria for selecting a Testing Tool

- Making requirement
- Technology expectation
- Training skills
- Management aspect

DATE: 19/8/17 PERIOD: 9 TOTAL NO. OF CLASS 51 UNIT: V

* Challenges in automation

- Testing the complete application
- Misunderstanding of Company process
- Relationship with developer
- Regression Testing
- Time constraint
- Which Test to execute first
- Understanding requirement
- Automation Testing

DATE: 21/8/17 PERIOD: 4 TOTAL NO. OF CLASS 52 UNIT: V

* Test Metrics and Measurements

- Types of Metrics
- * project metrics
- * progress metrics
- * predictive metrics

Sign of HOD with Date

 21/8/17

SUMMARY OF CLASS WORK

DATE: 11/9/17 PERIOD: 3, 4 TOTAL NO. OF CLASS 54 UNIT: V

* Project Metrics

- Need & Importance

- Steps in metrics program

- Identify - Transform - Action

- Decide - Perform - Done

DATE: 4/9/17 PERIOD: 4 TOTAL NO. OF CLASS 55 UNIT: IV

* Test Defect Metrics

* 5 classes of defects

* Defect Priority

* Productivity Metrics

- defects/100 hrs. of testing

- test cases executed/100 hrs. of testing

- test cases developed/100 hrs. of testing

- defects/100 failed test cases

DATE: 6/9/17 PERIOD: 8, 9 TOTAL NO. OF CLASS 57 UNIT: Revision

Revision on Unit III & Unit IV

- Levels of Testing

- System Testing & Types

Sign of HOD with Date



SUMMARY OF CLASS WORK

DATE: 16/9/17 PERIOD: 1,9 TOTAL NO. OF CLASS 59 UNIT: Revision

Revision on Unit I

- * Automation and its scope
- * Challenges of automation

DATE: 19/9/17 PERIOD: 2 TOTAL NO. OF CLASS 60 UNIT: Revision

Discussion on Cycle Test Questions from Unit I + II

DATE: 20/9/17 PERIOD: 8,9 TOTAL NO. OF CLASS 62 UNIT: Revision

Discussion on Unit Test I & II Questions from Unit I & II

Sign of HOD with date

RESULT ANALYSIS

Model - I

Date of Exam : 28/7/17

1.	Total No. of Students	:	49		ReTest - 4/8/17 49
2.	No. of Students attended	:	49		49
3.	No. of Students passed	:	19		49
4.	Percentage of Pass	:	38.78% . .		100% .
5.	Result Analysis	:			

Range of Mark	0 - 44	45 - 59	60 - 74	75 - 89	90 - 100
No. of Students	30 -	11 13	5 31	3 5	- -

Signature of the Staff :



Name :

C. J. Raman

Date :

31/7/17

Signature of the HOD of the
Concerned Department :


(A. Jethalal)

(After distributing the answer scripts)

RESULT ANALYSIS

Model - II

Date of Exam : 15/9/17

1.	Total No. of Students	:	49	Retest - 21/9/17
2.	No. of Students attended	:	49	
3.	No. of Students passed	:	13	
4.	Percentage of Pass	:	26.53%	
5.	Result Analysis	:		
				49
				49
				32
				65.3%

Range of Mark	0-44		45-59		60-74		75-89		90-100	
No. of Students	36	17	4	10	8	21	1	5	-	-

Signature of the Staff :

Name :

C. J. Raman

Date :

22/9/17

Signature of the HOD of the
Concerned Department :

(After distributing the answer scripts)

(A. S. Theerthi)

RESULT ANALYSIS

Model - III

Date of Exam : 7/10/17

ReTest - 13/10/17

1.	Total No. of Students	:	49	49
2.	No. of Students attended	:	49	49
3.	No. of Students passed	:	42	47
4.	Percentage of Pass	:	85.71%	95.92%
5.	Result Analysis	:		

Range of Mark	0-44		45-59		60-74		75-89		90-100
No. of Students	09	02	11	15	24	27	05	05	-

Signature of the Staff



Name

C. J. Raman

Date

9/10/17

Signature of the HOD of the
Concerned Department

(After distributing the answer scripts)


(C. J. Raman)