

**ST. ANN'S COLLEGE OF ENGINEERING & TECHNOLOGY: CHIRALA
DEPARTMENT OF COMPUTERS SCIENCE & ENGINEERING**

LECTURE SCHEDULE

SUBJECT: Software Testing Methodologies

ACADEMIC YEAR: 2017-18

NAME: Mr. N.LAKSHMI NARAYANA

YEAR & SEM/SECTION: IV-I (B)

No. of Lectures per week : 4+1* (Tutorial)

S. NO	DATE	UNIT	TOPICS
1	19-06-17	I	Introduction on Software Testing Methodologies
2	20-06-17		Software Myths & Facts
3	21-06-17		Software Evolution
4	23-06-17		Myths & Facts, Goals
5	24-06-17		Psychology, Definition
6	27-06-17		Model for testing
7	28-06-17		Effective Vs Exhaustive Software Testing
8	30-06-17		TUTORIAL
9	1-07-17		Software Testing Terminology and Methodology
10	3-07-17		Software Testing Life Cycle
11	4-07-17		Software Testing Life Cycle
12	5-07-17		Software Testing Methodology
13	7-07-17		TUTORIAL
14	10-07-17		UNIT-1 REVISION with PPT OR NPTEL VIDEOS
15	11-07-17		Unit - 1 Test
16	12-07-17	II	OT-1 , Verification & Validation Activities
17	14-07-17		TUTORIAL
18	15-07-17		Verification of Requirements
19	17-07-17		High level designs, Low level designs
20	18-07-17		How to verify code
21	19-07-17		Validation
22	21-07-17		TUTORIAL
23	22-07-17		Dynamic Testing I: Black Box testing techniques: Boundary Value Analysis
24	24-07-17		Equivalence class Testing
25	25-07-17		State Table based testing
26	26-07-17		Decision table based testing
27	28-07-17		TUTORIAL
28	29-07-17		Cause-Effect Graphing based testing

29	31-07-17		Cause-Effect Graphing based testing
30	1-08-17		Error guessing
31	2-08-17		UNIT-2 REVISION with PPT OR NPTEL VIDEOS
32	4-08-17		TUTORIAL
33	5-08-17		UNIT-2 TEST
34	7-08-17	III	OT-2, Dynamic Testing II: White-Box Testing: need, logic coverage criteria
35	8-08-17		Basis path testing, Graph matrices
36	9-08-17		Loop testing, Data flow testing
37	10-08-17		Mutation testing, Static Testing: Inspections,
38	11-08-17		TUTORIAL
39	12-08-17		Structured Walkthroughs, Technical reviews
40	16-08-17	MID 1	UNIT-3 REVISION with PPT OR NPTEL VIDEOS
41	18-08-17		TUTORIAL
42	19-08-17		Previous Question Papers Explanation
43	21-08-17		Previous Question Papers Explanation
44	22-08-17		Previous Question Papers Explanation
45	23-08-17	IV	Validation activities: Introduction, Unit testing
46	28-08-17		Integration Testing, Function testing
47	29-08-17		System testing, Acceptance testing
48	30-08-17		Regression testing: Progressives Vs regressive testing
49	1-09-17		TUTORIAL
50	4-09-17		Regression testability, Objectives of regression testing
51	5-09-17		Regression testability, Objectives of regression testing
52	6-09-17		When regression testing done?, Regression testing types
53	8-09-17		TUTORIAL
54	9-09-17		Regression testing techniques
55	11-09-17		UNIT-4 REVISION with PPT OR NPTEL VIDEOS
56	12-09-17	Unit IV Test	
57	13-09-17		OT-4, Efficient Test Suite Management: Test case deisgn
58	15-09-17		TUTORIAL
59	16-09-17		Why does a test suite grow, Minimizing the test suite and its benefits
60	18-09-17		test suite prioritization, Types of test case prioritization

61	19-09-17	V	prioritization techniques, measuring the effectiveness of a prioritized test suite
62	20-09-17		Software Quality Management: Software Quality metrics
63	22-09-17		TUTORIAL
64	23-09-17		SQA models
65	25-09-17		Debugging: process, techniques, correcting bugs
66	26-09-17		Basics of testing management tools, Test link and Jira
67	27-09-17		UNIT-5 REVISION with PPT OR NPTEL VIDEOS
68	3-10-17		Unit-V test
69	4-10-17	VI	OT-5, Automation and Testing Tools: need for automation
70	6-10-17		TUTORIAL
71	7-10-17		categorization of testing tools, selection of testing tools, Cost incurred
72	9-10-17		Guidelines for automated testing, overview of some commercial testing tools
73	10-10-17		Testing Object Oriented Software: basics, Object oriented testing
74	11-10-17		Testing Web based Systems: Challenges in testing for web based software
75	12-10-17		quality aspects, web engineering
76	13-10-17		TUTORIAL
77	14-10-17		Testing web based systems, Testing mobile systems
78	16-10-17		UNIT-6 REVISION with PPT OR NPTEL VIDEOS
79	17-10-17	MID II	Previous Question Papers Explanation
80	18-10-17		Previous Question Papers Explanation
81	20-10-17		TUTORIAL
82	21-10-17		Previous Question Papers Explanation
83	23-10-17		Previous Question Papers Explanation

TOTAL CLASSES :51(LECTURE CLASSES)+15(TUTORIAL CLASSES)+6(UNIT WISE REVISIONS)+4(UNIT TESTS)+7(PREVIOUS QUESTION PAPERS EXPLANATION)=83 CLASSES

Text Books:

1. Software Testing, Principles and Practices, Naresh Chauhan, Oxford
2. Foundations of Software testing, Aditya P Mathur, 2ed, Pearson
3. Software Testing- Yogesh Singh, CAMBRIDGE

Reference books:

1. Software testing techniques - Baris Beizer, International Thomson computer press, second edition.
2. Software Testing, Principles, techniques and Tools, M G Limaye, TMH
3. Effective Methods for Software testing, Willian E Perry, 3ed, Wiley

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