

**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.D.N.V.SYAM KUMAR

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

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

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

28	28-7-17		Tutorial
29	29-7-17		Cause-Effect Graphing based testing
30	1-8-17		Error guessing
31	2-8-17		Unit-2 Test
32	3-8-17	III	OT-2, Dynamic Testing II: White-Box Testing: need,logic coverage criteria
33	4-8-17		Tutorial
34	5-8-17		UNIT-2 REVISION with PPT OR NPTEL VIDEOS
35	8-8-17		Basis path testing, Graph matrices
36	9-8-17		Loop testing, Data flow testing
37	10-8-17		Mutation testing, Static Testing: Inspections
38	11-8-17		Tutorial
39	12-8-17		Structured Walkthroughs, Technical reviews
40	16-8-17		I Mid
41	17-8-17	Previous Question Papers Explanataion	
42	18-8-17	Tutorial	
43	19-8-17	Previous Question Papers Explanataion	
44	22-8-17	Previous Question Papers Explanation	
45	23-8-17	IV	Validation activities: Introduction,Unit testing
46	24-8-17		Integration Testing, Function testing
47	29-8-17		System testing,Acceptance testing
48	30-8-17		Regression testing: Progressives Vs regressive testing
49	31-8-17		Regression testability, Objectives of regression testing
50	1-9-17		Tutorial
51	5-9-17		Regression testability, Objectives of regression testing
52	6-9-17		When regression testing done?,Regression testing types
53	7-9-17		Regression testing techniques
54	8-9-17		Tutorial
55	9-9-17		Unit IV Test
56	12-9-17		UNIT-4 REVISION with PPT OR NPTEL VIDEOS
57	13-9-17		
58	14-9-17	Why does a test suite grow, Minimizing the test suite and its benefits	
59	15-9-17	Tutorial	

60	16-9-17	V	test suite prioritization, Types of test case prioritization
61	19-9-17		prioritization techniques, measuring the effectiveness of a prioritized test suite
62	20-9-17		Software Quality Management: Software Quality metrics
63	21-9-17		SQA models
64	22-9-17		Tutorial
65	23-9-17		Debugging: process, techniques,correcting bugs
66	26-9-17		Basics of testing management tools,Test link and Jira
67	27-9-17		Unit-V test
68	3-10-17		UNIT-5 REVISION with PPT OR NPTEL VIDEOS
69	4-10-17	VI	OT-4, Automation and Testing Tools: need for automation
70	5-10-17		categorization of testing tools, selection of testing tools,Cost incurred
71	6-10-17		Tutorial
72	7-10-17		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	17-10-17	II Mid	UNIT-6 REVISION with PPT OR NPTEL VIDEOS
79	18-10-17		Previous Question Papers Explanataion
80	19-10-17		Previous Question Papers Explanataion
81	20-10-17		Tutorial
82	21-10-17		Previous Question Papers Explanataion

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

FACULTY MEMBER

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