

St. Ann's College of Engineering & Technology: Chirala
Department of COMPUTER SCIENCE & ENGINEERING
LECTURE SCHEDULE

SUBJECT: Software Testing Methodologies

ACADEMIC YEAR: 2018-19

NAME: N. LAKSHMI NARAYANA

YEAR & SEM/SECTION: IV-I / A

No. of Lectures per week : 5+1* (Tutorial)

S. NO	DATE	UNIT	TOPICS
1	11-06-18	UNIT - I	Introduction on Software Testing Methodologies
2	12-06-18		Software Myths & Facts
3	13-06-18		Software Evolution
4	14-06-18		Myths & Facts, Goals
5	18-06-18		Psychology , Definition
6	19-06-18		Model for testing
7	20-06-18		Effective Vs Exhaustive Software Testing
8	21-06-18		Software Testing Terminology and Methodology
9	22-06-18		Tutorial
10	23-06-18		Bugs, Bug Phases, Bug States , Bug Classification
11	25-06-18		Software Testing Life Cycle
12	26-06-18		Software Testing Life Cycle
13	27-06-18		Software Testing Methodology
14	28-06-18		Revision
15	29-06-18		Tutorial
16	30-06-18		Unit - 1 Test
17	02-07-18	UNIT - II	OT-1, Verification & Validation Activities
18	03-07-18		Verification of Requirements
19	04-07-18		High level designs
20	05-07-18		Low level designs
21	06-07-18		Tutorial
22	07-07-18		How to verify code
23	09-07-18		Validation
24	10-07-18		Dynamic Testing I: Black Box testing techniques: Boundary Value Analysis
25	11-07-18		Boundary Value Analysis
26	12-07-18		Equivalence class Testing
27	13-07-18		Tutorial
28	14-07-18		State Table based testing
29	16-07-18		Decision table based testing
30	17-07-18		Cause-Effect Graphing based testing
31	18-07-18		Cause-Effect Graphing based testing
32	19-07-18		Error guessing
33	20-07-18		Tutorial
34	21-07-18		Revision
35	23-07-18		Unit Test-2
36	24-07-18	UNIT-III	OT-2, Dynamic Testing II: White-Box Testing: need, logic coverage criteria
37	25-07-18		Basis path testing
38	26-07-18		Graph matrices
39	27-07-18		Tutorial
40	28-07-18		Loop testing
41	30-07-18		Data flow testing
42	31-07-18		Mutation testing, Static Testing: Inspections
43	01-08-18		Structured Walkthroughs, Technical reviews
44	02-08-18		Revision
45	03-08-18		Tutorial
46	04-08-18		Revision
47	06-08-18	MID-I	MID-I
48	07-08-18		MID-I
49	08-08-18		MID-I
50	09-08-18		MID-I
51	10-08-18		MID-I
52	11-08-18		MID-I
53	13-08-18	UNIT IV	Validation activities: Introduction, Unit testing
54	14-08-18		Integration Testing, Function testing
55	16-08-18		System testing
56	17-08-18		Tutorial
57	18-08-18		Acceptance testing
58	20-08-18		Regression testing: Progressives Vs regressive testing

59	21-08-18	UNIT-IV	Regression testability, Objectives of regression testing
60	23-08-18		Regression testability, Objectives of regression testing
61	24-08-18		Tutorial
62	25-08-18		When regression testing done?,Regression testing types
63	27-08-18		Regression testing techniques
64	28-08-18		Unit IV Test
65	29-08-18	UNIT-V	Efficient Test Suite Management: Test case design
66	30-08-18		Why does a test suite grow, Minimizing the test suite and its benefits
67	31-08-18		Tutorial
68	04-09-18		test suite prioritization
69	05-09-18		Types of test case prioritization
70	06-09-18		prioritization techniques
71	07-09-18		Tutorial
72	08-09-18		measuring the effectiveness of a prioritized test suite
73	10-09-18		Software Quality Management: Software Quality metrics
74	11-09-18		SQA models
75	12-09-18		Debugging:process, techniques,correcting bugs
76	15-09-18		Basics of testing management tools,Test link and Jira
77	17-09-18		Revision
78	18-09-18		Unit Test -V
79	19-09-18	UNIT-VI	Automation and Testing Tools: need for automation
80	20-09-18		categorization of testing tools
81	22-09-18		selection of testing tools,Cost incurred
82	24-09-18		Guidelines for automated testing, overview of some commercial testing tools
83	25-09-18		Testing Object Oriented Software: basics, Object oriented testing
84	26-09-18		Testing Web based Systems: Challenges in testing for web based software
85	27-09-18		Quality aspects
86	28-09-18		Tutorial
87	29-09-18		web engineering
88	01-10-18		Testing web based systems, Testing mobile systems
89	03-10-18		Revision
90	04-10-18		Revision
91	05-10-18		Tutorial
92	06-10-18		Revision
93	08-10-18	MID-II	MID-II
94	09-10-18		MID-II
95	10-10-18		MID-II
96	11-10-18		MID-II
97	12-10-18		MID-II
98	13-10-18		MID-II

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, William E Perry, 3ed, Wiley

FACULTY MEMBER

Theory	61
Tutorials	13
Unit	4
MID -I	6
MID-II	6
Revision	8
	98

HEAD OF THE DEPARTMENT