

# Bhoj Reddy Engineering College for Women: Hyderabad

Department of Information Technology Engineering

Lesson plan of faculty member for the academic year 2017–18

Class: III B Tech

Branch-Section: IT-A

Semester: II

Subject: Software Testing Methodologies

Lectures per week: 4

Lecture Number	Topics to be covered	Date (s)
<b>UNIT – I:Introduction</b>		
1	Introduction to stm	19 December 2017
2	Purpose of testing	20 December 2017
3	Dichotomies	22 December 2017
4	Model of Testing	23 December 2017
5	Consequences of Bugs	27 December 2017
6	Taxonomy of Bugs	28 December 2017
7	Basic concepts of Path Testing	29 December 2017
8	Predicates,	2 January 2018
9	Path Predicates	3 January 2018
10	Achievable Paths	5 January 2018
11	Path Sensitizing	6 January 2018
12	Path Instrumentation	9 January 2018
13	Application of Path Testing	10 January 2018
14	Revision	12 January 2018
<b>UNIT-II: Transaction Flow Testing</b>		
15	Transaction Flows	13 January 2018
16	Transaction Flow Testing Techniques	16 January 2018
17	Dataflow Testing	17 January 2018
18	Basics of Dataflow Testing	19 January 2018
19	Strategies in Dataflow testing	20 January 2018
20	Application of Dataflow testing	23 January 2018
21		
<b>UNIT-III:Domain Testing</b>		
22	Domains & Paths	24 January 2018
23	Nice Domains	27 January 2018
24	Ugly Domains	30 January 2018
25	Domain Testing	31 January 2018
26	Interface Testing	2 February 2018
27	Domains	3 February 2018
28	Testability	9 February 2018
<b>UNIT-IV: Paths,Path Products &amp; Regular Expressions</b>		
29	Path Products & Path Expressions	14 February 2018
30	Reduction Procedure	16 February 2018
31	Reduction Procedure, Applications	17 February 2018
32	Regular Expressions	20,21 February 2018
33	Flow Anomaly Detection	23 February 2018
34	Strategies to avoid Anomaly Detection	24 February 2018
35	Logic Based Testing	27,28 February 2018
36	Overview	2,3 March 2018
37	Decision Tables	6 March 2018
38	Path Expressions	7 March 2018
39	KV Charts	9,10 March 2018
40	Specifications	13,14 March 2018

<b>UNIT-V: State ,State Graps and Transition Testing</b>		
41	State, Good and Bad State graphs and Transition testing	16,17 March 2018
42	Testability Tips, State Testing	20,21 March 2018
43	Motivational Overview, Matrix of Graph, Relations,	23,24 March 2018
44	Power of Matrix	27 March 2018
45	Node Reduction Algorithm,Building Tools	28,31 March 2018
46	Revision	3 April 2018

**Text Books:**

1. Software Testing Techniques- Boris Beizer, Dreamtech, 2<sup>nd</sup> edition.
2. Software Testing Tools-Dr.K.V.K.K. Prasad,DreamTech

**Reference Books:**

1. The craft of Software Testing-Brian Marick,Pearson Education
2. Software Testing,3rd edition,P.C. Jorgensen, Aurbach Publications(Dist by SPD)

Name and signature of the faculty: Mrs. T Santosh

Name and signature of Head of the Department: Mr. M Vinod