

# Bhoj Reddy Engineering College for Women: Hyderabad

Department of Information Technology

Lesson plan of faculty member for the academic year 2015–16

Class: III B Tech

Branch-Section: IT-B

Semester: II

Subject: Software Testing Methodologies

Lectures per week: 4

Lecture Number	Topics to be covered	Date (s)
<b>UNIT – I: Introduction, Flow Graphs and Path Testing</b>		
1	Introduction	9 December 2016
2	Purpose of testing	13 December 2016
3	Dichotomies	14 December 2016
4	Model of Testing	16 December 2016
5	Consequences of Bugs,	19 December 2016
6	Taxonomy of Bugs	20 December 2016
7	Basic concepts of Path Testing	21 December 2016
8	Predicates, Path Predicates	23 December 2016
9	Achievable Paths	27 December 2016
10	Path Sensitizing	28 December 2016
11	Path Instrumentation,	30 December 2016
12	Application of Path Testing	2 January 2017
<b>UNIT-II: Transaction Flow Testing, Data Flow Testing</b>		
13	Transaction Flows	3 January 2017
14	Transaction Flow Testing Techniques	4 January 2017
15	Transaction Flow Testing Techniques in detail	6 January 2017
16	Dataflow Testing	9 January 2017
17	Basics of Dataflow Testing	10 January 2017
18	Dataflow Testing in detail	11 January 2017
19	Strategies in Dataflow testing	13 January 2017
20	Strategies in Dataflow testing in detail	16 January 2017
21	Application of Dataflow testing	17 January 2017
22	Application of Dataflow testing in detail	18 January 2017
<b>UNIT-III: Domain Testing</b>		
23	Domains	20 January 2017
24	Paths	23 January 2017
25	Nice Domains	24 January 2017
26	Ugly Domains	25 January 2017
27	Domain Testing	27 January 2017
28	Interface Testing	20 February 2017
29	Domains	21 February 2017
30	Testability	22 February 2017
31	Domain Testing and Interface Testing	27 February 2017
<b>UNIT-IV: Paths Path Products And Regular Expressions, Logic Based Testing</b>		
32	Path Products & Path Expressions	28 February 2017
33	Reduction Procedure	1 March 2017
34	Reduction Procedure, Applications	3 March 2017
35	Regular Expressions	6 March 2017
36	Flow Anomaly Detection	7 March 2017
37	Strategies to avoid Anomaly Detection	8 March 2017
38	Logic Based Testing	10 March 2017
39	Overview	13 March 2017
40	Decision Tables	14 March 2017

41	Path Expressions	15 March
42	KV Charts	17 March 2017
43	Specifications	20 March 2017
<b>UNIT-V: State, State Graphs and Transition Testing</b>		
44	State, State graphs	21 March 2017
45	Transition testing	22 March 2017
46	Good state graphs	24 March 2017
47	Bad state graphs	27 March 2017
48	State Testing	28 March 2017
49	Testability Tips	31 March 2017
50	Motivational Overview,	3 April 2017
51	Matrix of Graph	4 April 2017
52	Relations	7 April 2017
53	Node Reduction Algorithm	10 April 2017
54	Building Tools	11 April 2017
55	Power of Matrix	12 April 2017

**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

Name and signature of the faculty: Mrs Shirisha A ----

Name and signature of Head of the Department: Mr Sandeep Kumar K----