SOFTWAREW TESTING METHODOLOGIES SYLLABUS

<u> UNIT – I</u>

Introduction: Purpose of testing, Dichotomies, model for testing, consequences of bugs, taxonomy of

Bugs

UNIT - II

Flow graphs and Path testing: Basics concepts of path testing, predicates, path predicates and

achievable paths, path sensitizing, path instrumentation, application of path testing.

UNIT - III

Transaction Flow Testing: Transaction flows, transaction flow testing techniques.

Dataflow testing:-Basics of dataflow testing, strategies in dataflow testing, application of dataflow testing.

UNIT - IV

Domain Testing:-domains and paths, Nice & ugly domains, domain testing, domains and interfaces

testing, domain and interface testing, domains and testability.

UNIT - V

Paths, Path products and Regular expressions: Path products & path expression, reduction procedure,

applications, regular expressions & flow anomaly detection.

UNIT - VI

Logic Based Testing: Overview, decision tables, path expressions, kv charts, specifications.

UNIT - VII

State, State Graphs and Transition testing: State graphs, good & bad state graphs, state testing,

Testability tips.

UNIT - VIII

Graph Matrices and Application: Motivational overview, matrix of graph, relations, power of a matrix,

node reduction algorithm, building tools. (Student should be given an exposure to a tool like JMeter or Winrunner).

TEXT BOOKS:

- 1. Software Testing techniques Baris Beizer, Dreamtech, second edition.
- 2. Software Testing Tools Dr.K.V.K.K.Prasad, Dreamtech.

REFERENCES:

- 1. The craft of software testing Brian Marick, Pearson Education.
- Software Testing Techniques SPD(Oreille)
 Software Testing in the Real World Edward Kit, Pearson.
- 4. Effective methods of Software Testing, Perry, John Wiley.
- 5. Art of Software Testing Meyers, John Wiley.