Subject Code: RQG532B

ELECTIVE COURSE 3 – (ii) SOFTWARE TESTING

Unit I: Software Quality

Quality Concepts - Quality Movement - Software Quality Assurance - Software Reviews - Formal Technical Reviews - Formal Approaches to SQA - Statistical Software Quality Assurance - Software Reliability - The ISO 9000 Quality Standards - The SQA Plan

Unit II: Testing Fundamentals

Testing Fundamentals - Types of Testing - White box testing - Black box testing -

Integration testing – System and acceptance testing – Performance testing – Regression testing

Unit III: Specialized Testing

Testing of Object Oriented Systems – Usability and Accessibility testing – Testing Web applications

Unit IV:

Testing Web applications - Testing the Documentation - Test Planning, Management, Execution and Reporting

Unit V:

Software Test Automation - Test Metrics and Measurements

Text Books:

- 1. Software Engineering Concepts and Practices Roger S Pressman, TMG, Sixth Edition (For Unit I and Testing Web Apps)
- 2. Software Testing (Units II, III, IV, V) Srinivasan Desikan, Gopalaswamy Ramesh Pearson Education 2006

Reference Books:

- 1. Introducing Software Testing Louis Tamres, Addison Wesley Publications, First Edition.
- 2. Software Testing, Ron Patton, SAMS Techmedia, Indian Edition 2001
- 3. Software Quality Producing Practical, Consistent Software Mordechai Ben Menachem, Gary s. Marliss, Thomson Learning, 2003.