

Software Testing

B.Sc. (IT) Sem. V

EVALUATION SYSTEM

	Time	Marks
Theory Exam	3 Hrs.	100
TW / Tutorial	–	50

SYLLABUS

1. Introduction to quality, software quality, fundamentals of software testing, VV model of testing.
2. **Functional Testing** : Boundary value Testing, Equivalence class testing, Decision Table based testing, Retrospection.
3. **Structural Testing** : Path Testing, Data Flow Testing, Retrospection.
4. Levels of Testing, Integration Testing, System Testing, Interaction Testing.
5. **Object Oriented Testing** : Issues, Class Testing, Object Oriented Integration Testing, Object Oriented System Testing
6. **Testing Process** : Planning, Metrics and Reports, Quantitative and Qualitative Analysis, Improvements.

Reference :

1. Software Testing Principles, Techniques and Tools, (*M. G. Limaye*), TMH
2. Software Testing A Craftman's Approach, Second Edition, (*Paul C. Jorgensen*), CRC Press.
3. Introduction to Software Testing, (*Paul Ammann, Jeff Offutt*), Cambridge University Press.
4. Managing the Testing Process Practical Tools and Techniques for Managing Hardware and Software Testing, Rex Black, Wiley.
5. Software Testing, Second Edition, (*Ron Patton*), SAMS