

Software Testing Lectureflow

Module 1) ST - Introduction and Fundamentals	6
<ul style="list-style-type: none"> • Introduction of Software Engineering • Software Architecture • Software Development Life Cycle (SDLC) • (Water fall, Iterative and Incremental, Spiral, Agile, Use Case) • Software Testing Methodologies • Software Requirement Specifications (SRS) • OOPS • What is Testing? • Test Objectives • When, why, what to Test • Testing Activities • Key Principles of Testing 	
Module 2) ST - Manual Testing	25
<ul style="list-style-type: none"> • Error, Bug, Defects and Causes of Defects ,Quality , Risk : Types of Risks. • Test Organization : (Tester, Test Leader, Test planning , QA v/s QC , Testing V/s Debugging) • Test Development Process -Test Analysis • Test Plan • Strategy • HLR • Script • Scenario • Cases • Traceability • Fundamental Test Process -STLC • Psychology of Testing • Software Development Model :: (V-Model and RAD) • Software Testing Levels • Unit Testing • Integration Testing • System Testing • Acceptance Testing • , Alpha and Beta Testing • Testing, Testing definitions as per ISQTB. • Test Design Techniques • Dynamic Testing • Functional and Non Functional Testing • Black Box Testing Techniques 	

- White Box Testing Techniques
- Experience Based Testing Techniques
- Maintenance Testing
- Smoke and Sanity Testing
- End to End Testing
- Retesting and Regression Testing
- Positive and Negative Testing
- Static Testing (Formal, Informal, Types of Review, Estimation Techniques)
- Agile Testing
- Agile with Scrum process
- Scrum process
- Sprint Review and Retrospective
- Scrum Board
- JIRA Tools
- Build Release Process

Module 3) Testing on Live Application

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- Web Application Testing
- Desktop Application Testing
- Mobile Application Testing
- Responsive Testing
- Basic intro of API Testing
- Cross Browser Testing
- Advanced Mobile Testing (aPk, IPA)
- Database SQL Testing

Module 4) ST - Defect Management

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- Defect Management and Tracking
- Bug Life Cycle
- Defect Management
- Reporting
- Priority
- Severity
- Cost
- Bugzilla

Module 5) ST - Automation and Selenium

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- Fundamentals of Automation Testing
- Introduction of Functional Testing Using Automation Tool
- Selenium IDE with use of Fire bug tools
- Introduction of Non-Functional Testing Using Automation Tool

- Introduction about Load Runner-up
- Load Runner-up procedure
- How to use Load Runner-up
- Load Runner-up IDE
- Generate Single Scripting and Assign V-Users
- Multi Scripting with Grouping
- Parameterization in Load Runner-up