

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) • Structure Query Language (SQL) • OOPS 	
Module 2) ST - Manual Testing	25
<ul style="list-style-type: none"> • What is Testing? • Testing Activities • Test Objectives • Objectives and purpose • When and Why Testing? • When to start and stop Testing? • 7 Key Principles of Testing • 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	4
<ul style="list-style-type: none"> • 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	2
<ul style="list-style-type: none"> • Defect Management and Tracking • Bug Life Cycle • Defect Management • Reporting • Priority • Severity • Cost • Bugzilla 	

Module 5) ST - Automation and Selenium	6
<ul style="list-style-type: none"> • 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