

## Software Testing Lectureflow

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

- 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**

**6**

- 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