Software Testing Lectureflow

Module 1) ST - Introduction and Fundamentals	6

- 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

- 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

- 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

- 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