## **Course Content for Software Quality Assurance**

SN	Session	Chapter details
1	Session 1	Chapter 1 Basic Introduction to Software Quality Assurance      Background and Importance     QA Process     Methodologies     Role of QA in SDLC     Types of testing     QA as Career Path
2	Session 2	Chapter 2 Types of QA Documents  System Requirement Specification Document How to Write SRS Doc System User Manual How to write SUM Doc Release Note Documents How to write RN Doc Closing Document Gantt chart Document Wireframes
3	Session 3	Chapter 3 Types of Testing in Detail - Types of Software Testing (Functional. Non Functional and its subtypes in detail) Functional Testing  1. Unit Testing 2. Integration Testing 3. System Testing 4. Acceptance Testing Non Functional Testing 1. Security Testing 2. Performance Testing 2. Performance Testing 3. Usability Testing 4. Compatibility Testing Other Types of Testing Difference between Black box and White Box testing

4	Session 4	Chapter 4: Defect Life Cycle and Bug Reporting Tool
5	Session 5	Chapter 5 Test-plan Document and Test-cases  Test Plan Document and sample to write Test Plan Deliverable components Test Scenario   How to Write Test Cases  How to Write RTM Document Importance   Types of RTM
6	Session 6	Chapter 6 API Testing and Introduction to Swagger   What is an API Types of API Testing   Importance Types of API'S Various components of Rest API's Types of Error Codes Challenges of API Testing Introduction to Swagger and Practical on how to Test API through Swagger  - Positive & negative api testing
7	Session 7	Chapter 7 API Automation Through Postman (Part 1)
8	Session 8	Chapter 7 API Automation Through Postman (Part 2)  • How to use code snippets to automate - Code snippets to save responses - Use Variables in URL, Body parameters to cleanup - Save responses and Automate the tests within a collection - Automation using Collection Runner - Automation using datafile (CSV or json file)  • Debugging collection runner results - installation of Newman, node setup - Automation using Command line - API Automation Test Report Generation

9	Session 9	Chapter 8 API Automation Using Jmeter (Part 1)
10	Session 10	Chapter 8 API Automation Using Jmeter (Part 2)
11	Session 11	Chapter 8 API Automation Using Jmeter (Part 3)
12	Session 12	Chapter 8 API Automation Using Jmeter (Part 4)
13	Session 13	Chapter 9 Agile Methodology: Agile Model in Software Testing/ Scrum  Agile software development Agile vs Waterfall Agile process and phases in Detail Scrum vs Kanban QA Challenges with Agile software development Roles in Scrum Boundary value Analysis and Equivalence Partitioning Selenium   Frameworks   Types of Listener in TestNG   Annotations
14	Session 14	Revision class or Practice class before Board Examination