**Manual Testing Course Syllabus**

**Module 1: Introduction to Software Testing**

* What is Software Testing?
* Importance of Testing
* Software Development Life Cycle (SDLC)
* Software Testing Life Cycle (STLC)
* Roles and Responsibilities of a Tester

**Module 2: Types of Testing**

* Functional vs Non-Functional Testing
* Manual vs Automation Testing
* Black Box, White Box, and Gray Box Testing
* Levels of Testing:
  + Unit Testing
  + Integration Testing
  + System Testing
  + Acceptance Testing

**Module 3: Testing Techniques**

* Static and Dynamic Testing
* Test Design Techniques:
  + Equivalence Partitioning
  + Boundary Value Analysis
  + Decision Table Testing
  + State Transition Testing
  + Error Guessing

**Module 4: Test Planning and Documentation**

* Test Plan and Test Strategy
* Test Scenario vs Test Case vs Test Script
* Writing Effective Test Cases
* Test Case Template and Execution
* Test Data Preparation
* Test Summary Report

**Module 5: Defect Management**

* What is a Defect?
* Defect Life Cycle
* Defect Reporting and Tracking
* Severity vs Priority
* Bug Tracking Tools (e.g., JIRA, Bugzilla)

**Module 6: SDLC & STLC Models**

* Waterfall Model
* V-Model
* Agile Methodology (Scrum/Kanban)
* Iterative and Spiral Models

**Module 7: Verification and Validation**

* Difference Between Verification and Validation
* Review and Walkthrough Techniques

**Module 8: Testing in Agile Environment**

* Agile Testing Concepts
* Sprint Planning, Stand-ups, Retrospectives
* Role of QA in Agile Teams
* User Stories and Acceptance Criteria

**Module 9: Test Metrics and Measurements**

* Test Coverage
* Defect Density
* Test Efficiency
* Entry and Exit Criteria

**Module 10: Real-Time Project Exposure**

* Understanding Business Requirements
* Creating Test Scenarios and Test Cases
* Executing Test Cases and Reporting Bugs
* Final Test Reporting and Closure Activities

**Module 11: Interview Preparation & Soft Skills**

* Common Manual Testing Interview Questions
* Resume Preparation for QA Roles
* Communication Skills for Reporting and Collaboration