**Additional Topics covered for Selenium Full time batch students**

**Manual Testing Syllabus**

1. Introduction to Testing

* What is testing?
* Why testing is essential?

2. Quality

* What is quality of software?
* Quality attributes

3. Software Development Life Cycle (SDLC)

4. Software Testing Life Cycle (STLC)

5. QA and QC activities

6. Verification and Validation

7. Verification techniques

* Informal review
* Walkthrough
* Technical review
* Inspection

8. Types of Software Development Life Cycle Models

* Waterfall Model
* Verification and Validation Model(V Model)
* Incremental Model
* Iterative Model
* Agile Model
* Spiral Model
* Rapid Application Development Model (RAD)

9. Test Process

* Generic Test Process

10. Test Management

* Project Delivery
* Estimation
* Test policy
* Test Strategy
* Test Plan
* Phase Test plan
* Test Completion Report
* Test Metric

11. Risk

* What is risk?
* Risk Identification
* Risk Probability
* Risk Impact
* Risk examples
* Risk mitigation
* Risk contingency

12. Defect

* What is defect?
* Defect synonymous
* Defect life cycle
* Severity
* Priority
* Defect age
* Defect tracking and correction
* Defect techniques
* Defect tracking
* Defect reporting
* Sample format of defect report

13. Black box testing techniques

* Equivalence partitioning or Equivalence classing
* Boundary value analysis
* Use case based testing
* State transition testing
* Cause effect graphing
* Error guessing

14. White box testing techniques

* Basis path
* Control structure testing

15. Types of testing

* Types of Functional and Non Function testing
* Regression testing
* Retesting

16. Levels of testing

* Unit level testing
* Integration testing
* System testing
* System integration testing
* User acceptance testing

17. Availability of System

18. Mini projects for manual testing

* MSRTC website
* IRCTC website

19. Real time examples/scenarios given to write manual test scenarios/cases

* Pen
* Mobile phone
* Chair
* Water bottle
* Cup

20. Manual testing interview questions scenario based

21. Selenium Assignments

22. Image Verification tool

* Sikuli

23. Source Code Management Tool

* Github

24. Defect Tracking Tools

* Jira
* ALM