

# MANUAL TESTING

## COURSE SYLLABUS

Introduction to testing

Principles of Testing

Verification vs. validation

SDLC – Types of Software Development Life Cycle

Waterfall

Prototype

Spiral

Incremental

Agile methodology and Scrum Framework

V-Model

Advantages and Disadvantages of software development life cycle

Principles of Testing

STLC –Software Testing Life Cycle

Test case, Use case and Test Scenario's.

How to prepare test plan and strategy

How to Prepare test case template?

Difference between Error, bug, defect and fail

Bug Life cycle

How to Prepare Bug template?

Bug Tracking tool

**TESTING LEVELS**

Functional Testing

Unit Testing

Integration Testing

System Testing

**Types of Testing**

Acceptance Testing

Ad hoc Testing

Alpha Testing

Automated Testing

Beta Testing

Black Box Testing

Compatibility Testing

End-to-End Testing

Fault-Injection Testing

Functional Testing

Fuzz Testing

Gray Box Testing

Install & Configuration Testing

Load Testing

Performance Testing

Regression Testing

Sanity Testing

Scalability Testing

Security Testing

Smoke Testing

Stress Testing

**Black box testing and its testing techniques**

**White box testing and its types**

Entry Criteria and Exit Criteria

Test Environment and Test data preparation

Flow graph notations

Statement coverage

Branch Coverage

path coverage

Cyclometric Complexity

Requirement traceability matrix