

Software Testing Masters Program Syllabus

Manual Testing

Manual Testing (15hrs)

- ✓ Introduction
 - ✓ Manual Testing
 - ✓ software Testing
 - ✓ Perform Testing
- ✓ Why software testing is required?
- ✓ Types of Testing
 - ✓ Black Box Testing VS White Box Testing
 - ✓ Validation Testing VS Verification Testing
- ✓ SDLC
- ✓ The system, Sanity and Smoke testing
- ✓ Regression testing implementation
- ✓ Defect Life Cycle/ Bug Life Cycle
- ✓ Exit/Entry in Testing
- ✓ Test Case and Test Scenario
- ✓ How to write Test Description?
- ✓ What is Testing Template?
- ✓ How to apply the test suite?

Selenium with Java

Selenium with Java (25hrs)

Java

- ✓ Java Introduction
- ✓ What is Java
- ✓ Architecture of Java
 - ✓ JVM
 - ✓ What is the use of JVM
 - ✓ What is Byte code
- ✓ Feature of Java

- ✓ C++ vs Java
- ✓ Hello Java Program
- ✓ How to set Path
- ✓ JDK
- ✓ JRE vs JVM
- ✓ Data Types
- ✓ Unicode System
- ✓ Keyword
- ✓ Control Statement
 - ✓ Java If Else
 - ✓ Switch
 - ✓ For Loop
 - ✓ While Loop
 - ✓ Do While loop
 - ✓ Break
 - ✓ Continue
- ✓ Object Classes
 - ✓ Oops Concept
 - ✓ Naming Control
 - ✓ Constructor
 - ✓ Static Key
 - ✓ This Key
 - ✓ Java Inheritance
- ✓ Java Polymorphism
 - ✓ Overload
 - ✓ Override
 - ✓ Return Type
 - ✓ Super Key
- ✓ Java Abstraction
 - ✓ Abstraction
 - ✓ Interface
 - ✓ Abstraction vs Interface
- ✓ Java Encapsulation

- ✓ Packages
- ✓ Access Modifier
- ✓ Array
- ✓ Java Sting
- ✓ Java Regular
- ✓ Exception Handling
 - ✓ Try
 - ✓ Catch
 - ✓ Multiple try-catch Blocks
 - ✓ User Defining Exception handling
- ✓ Java I/o Operation
 - ✓ Input
 - ✓ Output

Selenium

- ✓ Introduction
 - ✓ Basic Terminologies
 - ✓ Features
 - ✓ Limitations
 - ✓ QTP vs Selenium
- ✓ Selenium IDE
 - ✓ Introduction
 - ✓ Features
 - ✓ First Test Case
 - ✓ Login Test
 - ✓ Command
 - ✓ Create Test Case
- ✓ Selenium Web Driver
- ✓ Introduction Web Driver
 - ✓ Architecture
 - ✓ Features
 - ✓ Web Driver vs RC

- ▾ Web Driver Installation
 - ✓ Test Case
- ✓ Selenium Grid
- ✓ Test NG
- ✓ Runtime Test on Web Tools
 - ✓ Chrome
 - ✓ Firefox
 - ✓ Internet Explorer
 - ✓ Safari
- ✓ Handling Drop-Down
 - ✓ Drag & Drop
 - ✓ Alert
 - ✓ Web Page
 - ✓ Navigation
 - ✓ Command
 - ✓ Element
 - ✓ Radio Button
 - ✓ CheckBox
 - ✓ Assertion
- ✓ Data-Driven Framework
- ✓ Hybrid Framework
- ✓ Page Object Model Framework
- ✓ Project: Online Tickets Booking Application Testing (Real-Time)

Selenium with Python

Selenium with Python (25hrs)

Python

- ✓ Introduction
- ✓ Download and Installation
- ✓ Variables
- ✓ Operators
- ✓ Python Lists
- ✓ Python Tuples

- ✓ Python Set
- ✓ Python Dictionary
- ✓ Python Class, Objects, Inheritance, def functions
- ✓ Module and package creation

Selenium

- ✓ What is selenium?
- ✓ Installation of selenium in python
- ✓ Pip Packages
- ✓ Pycharm Download and installation
- ✓ How to configure Pycharm
- ✓ Locators in selenium (Different methods by locating the objects)
- ✓ Page Object Model Selenium
- ✓ How to handle windows, Pop up and navigation
- ✓ How to handle dropdown list
- ✓ How to handle keyboard and Mouse operations

