

Course Name:-Software/ Application Testing Assistant

Duration:- 3 Months

Module 1:Introduction to Computers &Operating System

Module 2: OOPs Concepts with Overview of Java

Module 3:Database Technology

Module 4:Manual Testing

Module 5:Automation Testing – with selenium

Module 6:Basic Communication Skills

Module 1:Introduction to Computers &Operating System

- What is a Computer
- Generation of Computer
- Classification of Computers
- Components of Computer
- Concepts of Hardware and Software
- Operating and types of Operating System
- Process management and Multithreading
- Memory management

Module 2: OOPs Concept with Java Basics

- What is OOPs
- Classes and Objects
- Inheritance
- Polymorphism
- Abstraction
- Encapsulation
- Advantages of OOPs
- Introduction to Java
- Basic Language Elements
- Application of Oops concepts in Java
- Extended Classes & Inheritance
- Arrays & Strings
- Packages
- Multithreading
- Errors and Exceptions

Module 3: Database Technology

- Introduction to Database concepts and its need
- Database Terminology (Data, Record/Tuple, Table, Database, field/attribute Concept of Keys: Candidate key, Primary key, Alternate key, and Foreign key)
- Introduction to SQL SERVER
- Creating Database and table
- Defining primary key and Foreign key
- Inserting records
- Displaying records using SELECT command and WHERE clause
- Modifying records using UPDATE
- Deleting records

Module 4: Manual Testing

- Introduction to Software Testing
- Types of Software Testing
 - Manual testing
 - Automation testing
- SDLC
 - SDLC Phases
 - SDLC Models
- What is QA
- Difference between QA and QC
- Testing Levels
 - Functional
 - Non-Functional
 - Unit Testing
 - Integration Testing
 - System Testing
 - Acceptance Testing
- Test Design Techniques
 - White box testing
 - Black box testing
 - Grey box testing
- Testing Process (STLC)
- Test case execution
- Defect Reporting and Documentation
- Test Closure

Module 5: Automation Testing – with selenium

- What is Automation Testing
- Advantages / Disadvantages of Automation testing

- Test Automation Framework
- Various Automation Tools
- Introduction to Selenium
- Selenium IDE introduction
- Selenium RC
- Selenium Web driver Introduction
- Testing Framework
- Database Testing
- Data Driven Framework

Module 6: Basic Communication Skills

- Communication and its importance, Principal of effective communication
- Types of communication
- Body language
- Listening Skills - Importance of Effective Listening
- Difference between Hearing and Listening
- Measures to improve listening
- Employment skills- Contents of good Resume
- Guidelines for writing Resume
- Facing interviews
- Do's & Don'ts for an interview