



SOFTWARE TESTING

SYLLABUS & CONTENTS





This course covers the principles and practices of software testing, including test planning, test design, test execution, and defect tracking. Students will learn how to create effective test cases and test plans, analyze test results, and communicate test findings to stakeholders. The course will also cover various types of testing, such as functional testing, performance testing, and security testing.

Course Objectives

- Understand the importance of software testing and its role in software development.
- Learn the principles and practices of software testing, including test planning, design, and execution.
- Develop effective test cases and test plans.
- Analyze test results and report findings to stakeholders.
- Understand various types of testing, including functional, performance, and security testing.
- Learn how to use testing tools and techniques to improve the testing process.
- Understand the importance of defect tracking and management.
- Learn how to work effectively in a testing team and collaborate with other stakeholders.

COURSE SYLLABUS

Module 1: MANUAL TESTING (1 Month)

1. What is manual testing?
2. Principles of manual testing
3. Difference between manual and automation testing
4. Error, defect, bug, failure
5. Difference between QA and QC, Verification and validation
6. Process
7. SDLC
8. Software development model with highlight on agile model – SCRUM
9. STLC
10. Test case development format
11. Defect reporting and format
12. Severity and Priority
13. Bug life cycle
14. Software testing metrics
15. Testing levels
16. Static and dynamic testing – types
17. Testing types

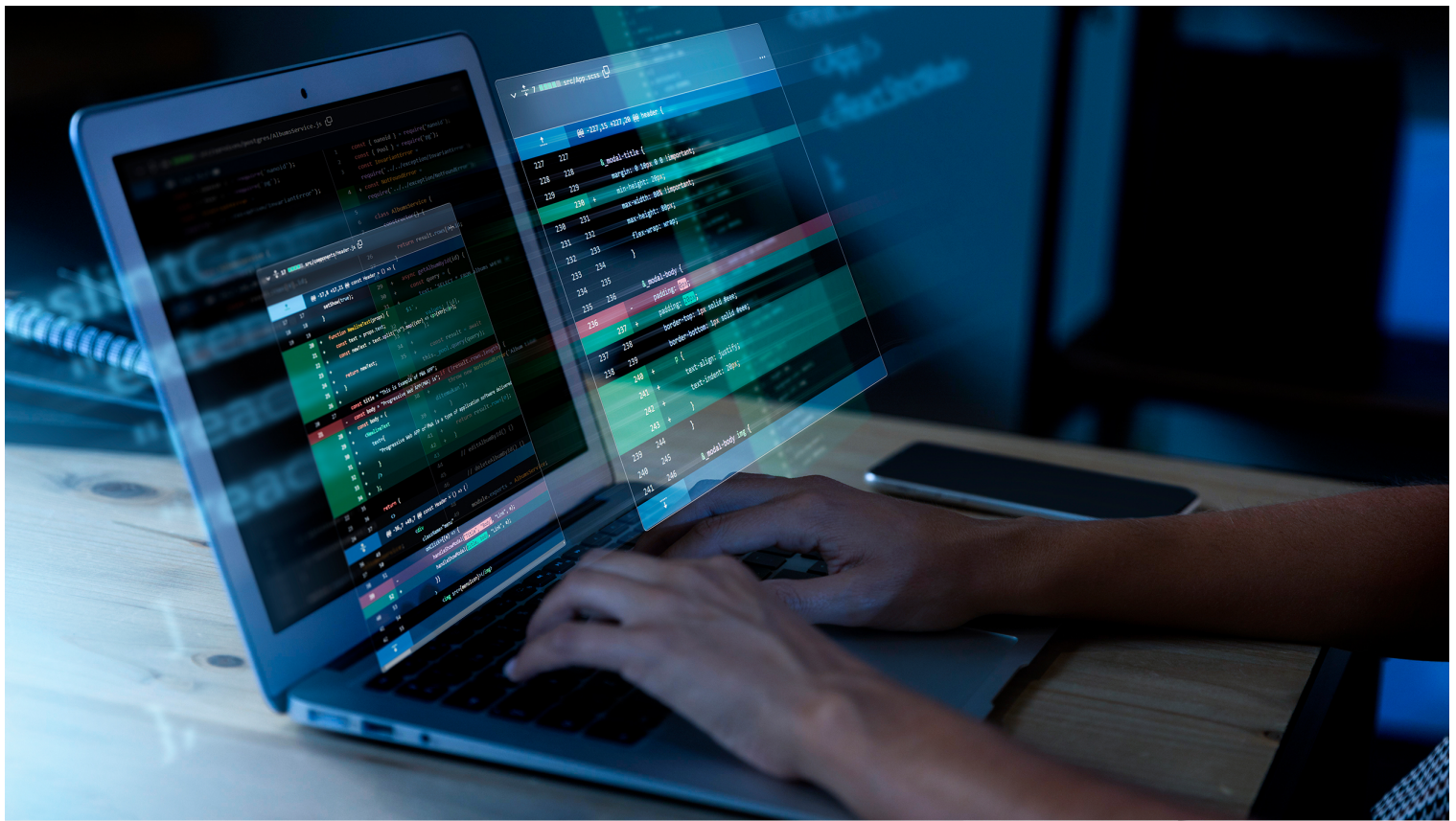
Module 2: Core Java (2 weeks)

Module 3: Selenium with Java (1 month)

1. Selenium IDE
2. Selenium Webdriver:
 1. Selenium Webdriver Introduction
 2. Webdrivermanager
 3. Junit
 4. Locators

5. Screenshot in selenium
6. Handling Alerts
7. Broken Links
8. Waits in Selenium
9. Javascript Executor in Selenium
10. Navigation Commands
11. Dropdown handling using select class
12. Button Text verification
13. Radio buttons
14. Actions class
15. Copy paste using action class
16. Drag and drop program
17. Double click and right click using Action class
18. Mouse Hover Program
19. File upload
20. File upload using AUTO IT and Robot class
21. Cross browser Testing
22. Handling multiple windows and tabs





Assessment and Evaluation:

- Quizzes and exams
- Test case development and execution assignments
- Final project and presentation
- By the end of this course, students will have a comprehensive understanding of software testing principles, practices, and techniques, and will be well-prepared to enter the field of software testing.

100% Placement Support and Interview Grooming



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