



APPLETLOGIC

TRAINING BRAIN BUILDING SOLUTIONS

SOFTWARE TESTING

SYLLABUS



OUR SERVICES



Placement Grooming Sessions

Our Placement Grooming Program prepares students for successful careers through regular training sessions focused on interview preparation, communication skills, aptitude training, and group discussions. With continuous guidance and practice, students build confidence and stay ready to excel in placement opportunities.



Assessments

Our Assessment Program helps students track their progress through regular evaluations of technical and professional skills. With continuous assessments and timely feedback, students identify areas for improvement, strengthen their knowledge, and ensure consistent growth throughout the course.



Module wise Evaluations

Our module-wise evaluation system assesses students at the end of each module to measure their understanding and learning progress. This structured approach reinforces key concepts, identifies areas for improvement, and provides timely feedback, helping students build confidence and achieve consistent progress throughout the course.



Experienced Mentors

Our experienced mentors bring strong industry knowledge and practical expertise to guide students throughout their learning journey. With personalized support and real-world insights, they help students build technical skills, solve challenges confidently, and prepare for successful careers in the IT industry.



HR & Mock Interview

Our HR & Mock Interview sessions prepare students to confidently face real recruitment processes. The program includes HR interview practice, technical mock interviews, resume review, communication enhancement, and personalized feedback to improve performance and increase placement success.



LinkedIn and Resume preparations

We provide dedicated training in LinkedIn profile building and resume preparation to help students present their skills and achievements professionally. Our guidance enables students to create impactful LinkedIn profiles and well-structured resumes that improve their visibility to recruiters and increase their chances of securing better career opportunities.



Internship Opportunity

Our Internship Program gives students practical experience by working on real-time projects under expert guidance. It helps them strengthen their technical skills, gain industry exposure, and build the confidence needed for successful career opportunities.

ABOUT COURSE

The Software Testing with AI course is a comprehensive, job-oriented program designed to equip learners with the skills required to become industry-ready QA and Automation Testing professionals. The curriculum covers manual testing, automation testing, API testing, performance testing, and AI-powered testing techniques, providing a perfect blend of theoretical knowledge and hands-on practical experience. Students will learn industry-standard tools such as Selenium, Java, TestNG, Postman, JMeter, Cypress, Cucumber, SQL, Jira, Git, Jenkins, along with modern AI tools like ChatGPT, GitHub Copilot, Gemini, Cursor AI, Applitools, and AI-powered test automation platforms to accelerate testing, generate test cases, automate scripts, and improve productivity. The course includes real-world projects, internship opportunities, mock interviews, resume building, GitHub portfolio development, and placement assistance, ensuring learners gain the confidence and practical experience needed to succeed in today's software testing industry.

OUR MODULES - SOFTWARE TESTING

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Manual Testing Fundamentals

- ▶ Introduction to Software Testing
- ▶ Principles of Software Testing
- ▶ SDLC & STLC
- ▶ Software Development Models
- ▶ Test Planning
- ▶ Test Scenarios & Test Case Design
- ▶ Requirement Traceability Matrix (RTM)
- ▶ Defect Life Cycle
- ▶ Defect Reporting & Documentation
- ▶ Jira Basics

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Manual Testing Techniques

- ▶ Black Box Testing
- ▶ White Box Testing
- ▶ Static & Dynamic Testing
- ▶ Functional Testing
- ▶ Non-Functional Testing
- ▶ Smoke Testing
- ▶ Sanity Testing
- ▶ Regression Testing
- ▶ Integration Testing
- ▶ System Testing
- ▶ User Acceptance Testing (UAT)

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SQL for Software Testers

- ▶ Database Fundamentals
- ▶ DDL Commands
- ▶ DML Commands
- ▶ Constraints
- ▶ Aggregate Functions
- ▶ String & Date Functions
- ▶ Joins
- ▶ Subqueries
- ▶ Views
- ▶ Database Validation for Testing

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Java Programming for Automation

- ▶ Java Basics
- ▶ Variables & Data Types
- ▶ Operators
- ▶ Conditional Statements
- ▶ Loops
- ▶ Arrays
- ▶ Methods
- ▶ Object-Oriented Programming (OOP)
- ▶ Exception Handling
- ▶ Collections Framework

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Selenium Automation Testing

- ▶ Automation Testing Fundamentals
- ▶ Selenium Architecture
- ▶ Selenium WebDriver
- ▶ Browser Driver Setup
- ▶ Locators
- ▶ Web Elements
- ▶ Navigation Commands
- ▶ Waits
- ▶ Alerts
- ▶ Frames
- ▶ Multiple Windows
- ▶ Actions Class
- ▶ JavaScript Executor

Advanced Selenium Framework Development

- ▶ TestNG
- ▶ Assertions
- ▶ Annotations
- ▶ Parallel Execution
- ▶ Data-Driven Testing
- ▶ Apache POI
- ▶ Page Object Model (POM)
- ▶ Page Factory
- ▶ Framework Design
- ▶ Maven
- ▶ Git & GitHub
- ▶ Jenkins CI/CD
- ▶ Test Reporting

API Testing & Performance Testing

- ▶ API Testing with Postman
- ▶ API Fundamentals
- ▶ REST API
- ▶ HTTP Methods
- ▶ JSON
- ▶ Authentication
- ▶ Environment Variables
- ▶ Collections
- ▶ API Automation
- ▶ Newman CLI
- ▶ Performance Testing with JMeter
- ▶ Apache JMeter
- ▶ Test Plans

- ▶ Thread Groups
- ▶ Samplers
- ▶ Assertions
- ▶ Timers
- ▶ Listeners
- ▶ Load Testing
- ▶ Stress Testing
- ▶ Performance Reports

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Cypress & BDD Automation

- ▶ Cypress Introduction
- ▶ Installation & Setup
- ▶ Commands
- ▶ Locators
- ▶ Assertions
- ▶ Fixtures
- ▶ API Testing
- ▶ End-to-End Testing
- ▶ Reporting

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Behavior-Driven Development (BDD) with Cucumber

- ▶ BDD Concepts
- ▶ Gherkin Syntax
- ▶ Feature Files
- ▶ Step Definitions
- ▶ Hooks
- ▶ Data Tables
- ▶ Scenario Outline
- ▶ Cucumber with Selenium
- ▶ BDD Framework Development

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Agile Testing & Test Management

- ▶ Agile Methodology
- ▶ Scrum Framework
- ▶ Sprint Planning
- ▶ Jira for Agile Projects
- ▶ Test Management
- ▶ Defect Tracking
- ▶ Bug Reporting Best Practices
- ▶ Test Execution & Reporting

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Capstone Project & Internship

- ▶ End-to-End Automation Testing Project
- ▶ Hybrid Framework Development
- ▶ Manual Testing Project
- ▶ Selenium Automation Project
- ▶ API Testing Project
- ▶ Performance Testing
- ▶ Live Project Testing
- ▶ GitHub Portfolio Development
- ▶ Resume Building
- ▶ LinkedIn Profile Optimization
- ▶ HR Interview Preparation
- ▶ Technical Interview Preparation
- ▶ Mock Interviews
- ▶ Internship / Real Client Project
- ▶ Placement Assistance

THANK YOU

