

DIPLOMA IN SOFTWARE TESTING

Subject and Syllabus



2022-23

Syllabus

DIPLOMA IN SOFTWARE TESTING

DURATION:- 1 YEAR

556 SOFTWARE TESTING (MANUAL, AUTOMATION, SQL) - TRAINING PLAN

Software Testing (Manual, Automation, SQL) course Contents has been developed working together with hundreds of hiring companies in India to prepare fresh graduates to work as Software Testing Engineer OR Quality Analyst.

The Software Testing course contains Manual Testing, Automation Testing & SQL and the syllabus will help candidates in their preparation for the International Software Testing Qualifications Board (ISTQB) examination.

Introduction of Software Testing

- What is Software testing
- What is Quality
- Importance of testing
- Tools used for Testing
- Manual and Automation Testing
- Principles of Software Testing

557 SOFTWARE DEVELOPMENT LIFE CYCLE

- SDLC and SDLC Phases
- Requirements and Analysis

- Design
- Development
- Testing
- Deployment
- Operation and Maintenance

558 SDLC MODELS

- Waterfall Model
- V Model
- Spiral Model
- Iterative Model
- Agile Model



559 DEVELOPMENT ARCHITECTURES

- One Tier Architectures
- Two Tier Architectures
- Three Tier Architecture
- N-Tier Architecture

560 SOFTWARE TESTING LIFE CYCLE

- What is STLC?
- Entry and Exit Criteria
- STLC Phases
- Requirement Analysis
- Test Planning
- Test Design
- Test Execution
- Sign Off
- Test Scenario Preparation
- Test Case Preparation
- Test Environment and Test Data Preparation
- Requirement Traceability Matrix

The logo of Gurukul Educational and Research Institute is a yellow shield-shaped emblem. Inside the shield, there is a green laurel wreath. In the center of the wreath is a yellow circular emblem containing a white torch with a flame. Below the torch are several white books. The word 'GURUKUL' is written in large, green, bold, sans-serif capital letters across the middle of the shield. Below this, in smaller green capital letters, is 'EDUCATIONAL AND RESEARCH INSTITUTE, HARIDWAR'. At the bottom of the shield, there is a yellow banner with the Sanskrit motto 'विद्यया ऽमृतमश्नुते' in green. The entire logo is semi-transparent and serves as a background for the text.

561 LEVELS OF TESTING

- Testing Techniques used in Levels of Testing
- White Box Testing Technique
- Black Box Testing Technique
- Unit Testing
- Integration Testing
- System Testing
- Functional Testing
- Non Functional Testing

- User Acceptance Testing

Types of testing

- Functional Testing
- White Box Testing
- Black Box Testing
- Positive Testing
- Negative Testing
- Beta Testing
- Live Environment Testing
- Smoke Testing
- Sanity Testing
- Regression Testing
- Formal Testing
- Informal Testing
- Monkey Testing
- Re-Testing
- Risk Based Testing
- Non Functional Testing
- Performance Testing
- Load/Stress Testing
- Usability Testing
- Accessibility Testing
- Security Testing



562 EFFECTIVE SOFTWARE METRICS

- Test Case Productive Prepration
- Test Execution Summary
- Test Case Coverage
- Defect Acceptance
- Defect Rejection
- Test Efficiency
- Effort Variance
- Schedule Variance

