CERTIFICATE IN SOFTWARE TESTING

DURATION: 60 Hours

TOTAL CREDITS: 2

COURSE SYLLABUS

Objective

The **Certificate Course in Software Testing** helps to find defects, which may get created by the programmer while developing the software & check the quality of the software in all aspects to ensure that the end result meets the business and user requirements

Exit Profile

- Knowledge in Software Testing

- Knowledge in Database Management using SQL

- Knowledge in Selenium

- Knowledge in Apache JMeter

Career Path

- Quality Analyst

- Engineer in Software Testing

- Quality Coordinator

- SQL Programmer

- Database Manager

Course Outline

Course Name:	CERTIFICATE IN SOFTWARE TESTING	Duration:	60 H
Module	Topic	Dur.	Total Dur.
MODULE - 1	Manual Testing	15 H	60 H
	SQL	15 H	
	Selenium	15 H	
	JMeter	15 H	

Course in Detail

MODULE - 1

MANUAL TESTING

- Introduction to Manual Testing

- Types of Applications

- SDLC – Software Development Life Cycle

- Principles of Testing

- STLC –Software Testing Life Cycle

- Test Cases & Design Techniques

- Bugs & Bug Life Cycle

- Static and Dynamic testing

- Functional and Non-functional testing

- Black box and White box testing

- Web and Mobile Application testing

SQL

- Database Basics and Structured Query Language

- Filtering and Retrieving Data

- Sorting Data

- Summarizing and Grouping Data

- Sub Queries

- Creating and Using Table Joins

- Database Testing

SELENIUM

- Selenium Introduction

- Selenium Components

- Java: Programming concepts

- Java: Class, Object, variables, methods, Packages

- Access and non-access modifiers

- Interfaces, Inheritance

- Collections, Exceptions

- Selenium IDE

- Selenium Commands

- Selenium RC

- Selenium WebDriver

- Cross Browser Testing – Firefox, IE, Chrome, Edge.

JMETER

- Introduction to JMETER

- Performance Testing Concepts

- Performance Testing Types

- Elements of JMeter

- Controllers

- Listeners

- Timers

- Assertions

- Configuration Elements

- Post & Pre-Processor Elements

- Configuring Tree Elements

- Test Plans

- Cookies

- Recording Tests Using JMeter

- Reading the data from CSV files

- Using the parameters in JMeter Tests

- Adding the Assertion Results and monitoring

- Saving the data through Simple Data Writer

- Generating the Summary Report