

TEST AUTOMATION COURSE CONTENT

Course/Module	Session/Activity/Topics
Overview to Testing and Types of Testing	To introduce Need & Importance of Software Testing Objectives of Testing, Software Testing Life Cycle & Software
	Testing Process Overview
	To introduce Static Testing, Dynamic Testing Types, Levels of
	Testing, Unit Testing, Integration Testing, System Testing &
	Acceptance testing
	To provide orientation on Introduction to Black box texting,
	Methods of Black box Testing, Advantages of Black box Testing,
Black box Testing Technique and White Box	Disadvantages of Black box Testing
Testing Technique	
	To introduce White Box Testing, White Box Testing Techniques,
	Data Flow Tocting Advantages of White Pey Tecting
	To introduce What is Software Requirements:
	Definition, Requirements Engineering (RE), RE Process, Flow
	diagram Types of Requirements
	Requirements documents, Definition, Types of Requirements
	documents
	Requirements Management: Definition, Tools
	Requirement Traceability Matrix, Challenges in managing
	Software Requirements
	Requirements Change Management: Definition, Tools
	Change Control Management
	Sample Software Requirements and Traceability matrix will be
	provided and the students to update Traceability matrix based
	on the requirement.
	To introduce test planning activities of Life Cycle (STLC)
Understanding of Requirements & Traceability	Requirement analysis and its types
Matrix and Practicals, Test Planning and Test	Requirement verification
Case Design and practicals	What is a Test Strategy?
	Test Strategy – Concepts and Components Test Strategy – Risk Analysis and Mitigation Plan
	What is Test Plan?
	Pre-requisites for a Test Plan
	How to write a good Test Plan?
	Test Plan components and benefits
	Test Plan - In-Scope & Out of Scope Testing
	Test Plan - Entry and Exit Criteria
	Test Plan - Suspension and Resumption criteria
	To introduce Test Design
	Process for building a Test Design
	Pre-requisite of Test Case Design
	Test Case Activity
	Test Case Components
	Sample requirement and test case template will be provided
	for students to create test cases based on the requirement
	provided



Problem caused by Poor Test Data Classification of Test Data types Test Data Preparation To introduce Software Testing Life Cycle Test Execution - Major Techniques / Approaches Test Execution & Test Execution - Practical's Test Execution - Major Techniques / Approaches Test Execution - Major Techniques / Approaches Test Execution - Major Techniques / Approaches Test Execution Process Test Execution Process Test Execution Process Test Execution Report Sample requirement and test case template will be provided students with sample application to execute the test cases that are already created To introduce What is a Defect? Difference between Defect, Bug, Error and Fault? Defect Management process Defect Prevention Defect Tracking (or) Managing Issues Examples Case study To introduce - A Post project Analysis Collection of Data Documentation of "Test Activities" Deriving Reports Finalizing and Archiving Testware. Contributing towards the improvement of test maturity To introduce What is Metrics, Why we need Metrics? Rey Testing Metrics with examples To introduce What lis Metrics, Why we need Metrics? Rey Testing Metrics with examples To introduce Model Based Testing (MBT) ID2E - A year in review Demo of Integrated Design to Execution Model Based Testing (MBT) and Data Centric awareness Introduction to Test Automation Introduction to Selenium IDE and Practical's - Introduce the approach for Automation Testing To introduce Features of To introduce Fe	Г	
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Practical's - Selenium WebDriver		Time provided for students to practice / hands on



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