Week	Day	Topics	Objectives / Learning Outcomes	Learning in Hours	Virtual Instructor Led Session (Hrs)	Hands-on Assignment (Count)	Module Name / Video Name - Module Duration	Course Duration (Hrs)	Course Name
Week 1	Day-0	Orientation TOURDARION PTE	NA Basic Java programming concepts, including data types, Conditionals, loops, functions, exception handling	2		2	Setting gl lotal Development : 1hr 15m Jan 18m Jan 18m Statistics (see by Hen) - 0h 18m 2n Jan 18m Statistics (see by Hen) - 0h 18m 2n Jan 2n Jan 18m Statistics - 0h 09m 38 Intel® IDEA natibilities - 0h 09m 19h Jan 18m Jan 18m Statistics - 0h 09m 19h Jan 2n Hell World program - 0h 14m 37h Jan 2n Jan 18m Jan 18m Statistics - 0h 09m 19h Jan 2n J	02:21:00	Java 21 Programming Masterclass: Fundamentals for Regioners
	Day-2			2			Java Operators - 34m Java Logical Operators - 17m Java String - 4.tm Java Decision MakingStatements - 32m	02:04:00	Java 21 Programming Masterclass: Fundamentals for Beginners
	Day-3			2			Java Control Flow Statements - 45m Java Arrays - 24m Java Methods - 9m Java Project - 35m	01:53:00	Java 21 Programming Masterclass: Fundamentals for Beginners
	Day-4		Understanding Object-Oriented Programming (OOP) concepts (Inheritance, Polymorphism, Encapsulation), Exception Handling and its importance in Robust Code	2		2	Java Classes and Objects - 54m Java Class Methods - 39m Java Constructors - 15m Java Inheritance - 44m	01:48:00	Mastering Advanced Java with Object-Oriented Programming
	Day-5			2			Java Polymorphism - 21m Java Access Modifiers - 25m Java Encapsulation and Abstraction - 44m	02:14:00	Mastering Advanced Java with Object-Oriented Programming
									Week 1-KBA on the basis of Java 21 Programming Masterclass: Fundamentals for Beginners & Mastering Advanced Java with Object-Oriented Programming courses
	Day-6		Java Exception Mandling - Checked & Urchecked Exceptions, Throning Exceptions, Stack Trace, Exception Insights, Exception Analysis, Try-Catch Fatally, Catch with Return, Variations	2	_	2	Introduction - 9m Getting Started - 27m Checked Exception - 39m Unchecked Exception and Checked Exception - 46m	02:01:00	Java Case Study - Exception Handling
	Day-7	Programming - Java Part 1		2			Throwing Exceptions - 21m Stack Trace When An Exceptions Thrown - 25m Better Insight of Exception - 20m Exception Broader Analysis - 13m	01:19:00	Java Case Study - Exception Handling
Week 2	Day-8			2			Try-Catch-Finally - 1hr 1m Catch with Return and Catch With Multiple Return - 36m	01:37:00	Java Case Study - Exception Handling
	Day-9			2			Variations - 55m Output with JavaScript - 0h 13m 47s	00:55:00	Java Case Study - Exception Handling
	Day-10		JavaScript Basics, Variables, Datatypes, Type Conversions, Operators, Comparisons, Interactions, Loops, Function expression, Control Flow, Conditionals, Array, String, Date, Math, Number, Objects	2			Variables in JavaScript - On 12m 34e Math in JavaScript - On 60m 38s JavaScript Conditionals - On 15m 33e Switch - Case - On 70m 40s White and Do - White Loops - On 13m 52s For Loops - On 10m 10b JavaScript Functions - On 15m 10b JavaScript Functions - On 15m 10b JavaScript Seet and Mays - On 11m 107s	01:57:00	JavaScript Foundations Course
							Javascript Events - Un 12m S48		Week 2-KBA on the basis of Java Case Study - Exception Handling courses
	Day-11		Basic Unit Testing (IUnit/NUnit), Unit Testing, Basic Test Case Writing, Code Quality Metrics, Code Review Practices	2		1	JavaScript Audio - 0h 12m 27s Introduction - 27m Write Test - 37m Annotations - 27m Assertions and Offerent Types - 50m	02:11:00	JavaScript Foundations Course Learn unit Testing with Junit
	Day-13		Introduction to IDE (e.g., Eclipse, Intellia), IDE Navigation, Creating Simple Projects, Introduction to Build Tools (Maven, Gradle), Build Lifecycle, Command-Line Operations		2				
Week 3	Day-14		Complex Data Structures (Arrays, Lists, Maps), Understanding lava Collections Framework, Concurrency Basics (Threads and Synchronization); Code Organization and Modularization, Debugging Tools, Debugging Techniques in IDES Step-Over, Step-Into, and Breakpoints, Troubleshooting Skills		2				
	Day-15		Introduction to REST(al APIs, Understanding HTTP Protocols, Basic API Request and Response Structure, API Testing Tools (Partnans), Basic ARI Adherhetication (PLOID) Paring and Settingation, XMLP paring (DOM and SAX), Microservices Communication (REST vs. gRPC), API Gateway in Microservices	2		1	Course Overview - 10m REST Fundamentals - 30m Consuming a RESTful API - 31m Building a RESTful API - 29m	02:24:00	API and REST-SD1
									Week 3-KBA on the basis of JavaScript Foundations Course , Learn unit Testing with Junit & API and REST-SD1 courses
	Day-16			2			Prerequisite Installations and Setup - 0h 11m 28s REST Assured - Preparing Your Framework - 0h 31m 22s REST Assured - Different Request Types - 0h 41m 0Ss REST Assured - Assert and Extract from the Response Body - 0h 24m 46s	01:48:00	REST Assured Fundamentals
Week 4	Day-17			2			REST Assured - Serialization, Schema Validation, and Measuring Response Time - 0h 34m 07s Using Groovy GPath for JSON in REST Assured - 0h 28m 02s Using Groovy GPath for XML in REST Assured - 0h 28m 46s Conclusion - 0h 01m 02s	01:32:00	
	Day-18	Programming - Java Part 2		2			Demystifying Microservices - 0h 20m 48s Related Architecture Styles and Use Cases - 0h 27m 05s Building Microservices with Spring 80or - 0h 43m 27s Applying Microservices Concepts - 0h 26m 20s	01:57:00	
	Day-19			2			Microservices Capability Model - 0h 23m 23s Microservices Evolution - A Case Study - 0h 36m 47s Scale Microservices with Spring Cloud Components - 1h 08m 19s	02:08:00	Spring 5.0 Microservices
	Day-20			2			Logging and Monitoring Microservices - 0h 52m 03s Containerizing Microservices with Docker - 0h 26m 40s Scaling Dockerized Microservices with Mesos and Marathon - 0h 33m 25s Microservice Development Life Cycle - 0h 14m 37s	02:06:00	
	<u></u>								Week 4-KBA on the basis of REST Assured Fundamentals & Spring 5.0 Microservices courses
	Day-21		Introduction to SQL, Basic SQL Queries (SELECT, INSERT, UPDATE, DELETE), Understanding Tables and Relationships, Data Storage Concepts MILESTONE ASSESSMENT 1	2	•	1	Introduction - 6m Installation - 10m Table Creation - 17m Data Fetch - 28m Table Update - 14m Data Update - 12m	01:27:00	Mysql Fundamentals

1					ī		Introduction - 1h 01m 56s		
Week 5	Day-23		Cloud: Intro to Cloud computing, Cloud service providers, Core cloud concepts	2		1	introduction - 1 n turm sos Let's Talik Azure - 0 h 14m 52s Let's Learn AWS - 0 h 29m 26s	01:48:00	Introduction to Cloud Computing [uploaded 2021]
	Day-24		Docker Basics, Containers and Images, Basic Kubernetes Concepts, understanding of CI/CD Concepts	2	_	1	Mastering Docker & Its components - 31m Mastering Kubernetes and Its components - 55m Introduction - 1hr 57m	01:26:00	Docker & Kubernetes Interview Readiness Course
	Day-25			-			minodection* an azim	01.37.00	The DevOps Essentials - The Handbook Week 5- KBA on the bais of Mysql Fundamentals, Introduction to Cloud Computing [uploaded
			CI/CD: Intro to CICD, Core concepts, CI/CD pipeline basics, Intro to Tools						2021], Docker & Kubernetes Interview Readiness Course, The DevOps Essentials - The Handbook courses.
	Day-26	Basic understanding of Cloud Computing, DevOps	Understanding of CyCo Concepts, Cl & CD Pipeline with Maven	2		1	Welcome and Introduction - 20m Continuous Integration & Continuous Delivery with Jenkins -15m Getting Started With Jenkins -36m Cl & CD Pigleine with Jenkins, 24mde & Artifactory - 20m Cl & CD Pipeline with Jenkins & Maven -13m	01:44:00	DevOps: CI/CD with Jenkins pipelines, Maven, Gradle
	Day-27		Version Control Systems (Git Basics), Command-Line Git (clone, commit, push)	2		1	Getting Started with Git - 7m Committing Changes in the Git Repository - 32m Branches and Merging - 15m Working with Remote Repository at Github-11m Exploring Git objects - 5m	01:10:00	Git and GitHub Crash Course
Week 6	Day-28		Introduction to microservices, Monolithic Applications, Architecture, Benefits, Distributed Systems.	2		1	Getting Started - 9m 39s Monotithic Applications - 25m 30s The Microservices Revolution - 16m 9s The Concept of a Microservices Architecture (MSA) - 25m 11s What are the Key Benefits of Microservices? - 27m 16s Course Summary - 9m 48s	01:53:00	A Beginner's Guide to a Microservices Architecture
	Day-29		Application Architecture Foundation-Introduction to Application Architecture, Types of Application Architecture (Monolithic, Microservices, Serverless), Common Design Patterns (MVC, MVVM), Basic Best Practices for Application Architecture (Scalability, Maintainability)		2	1			
	Day-30		Design Documents - Understand & Interpret (PILD, LLD)- Introduction to Design Documents, High-Level Design (HLD) Overview (Purpose, Key Components), Low-Level Design (LLD) Overview (Purpose, Key Components), Basic Mapping between HLD and LLD, Arch design- 2-tier and 3-tier architectures, Client-server model overview		2	1			
									Week 6 - KBA on the basis of DevOps: CI/CD with Jenkins pipelines, Maven, Gradle Git and GitHub Crash Course, A Beginner's Guide to a Microservices Architecture course
	Day-31		MILESTONE ASSESSMENT 2				Exploring Selenium - 23m		
	Day-32			2			Selenium WebDriver Architecture - 30m Working with Web Elements - 28m Advanced Selenium Techniques - 45m	02:06:00	Mastering Selenium WebDriver 3.X Test Automation
	Day-33		Set up Selenium WebDriver, work with Element locators, handle web elements, and synchronize actions, Try different Element locators, handle web elements, and synchronize actions.	2			Cross-Browser Testing - 25m Advanced Selenium WebDriver - 39m	01:04:00	Mastering Selenium WebDriver 3.X Test Automation
Week 7	Day-34			2			Introduction - 3m Element Identification - 1hr 38m	01:41:00	Selenium WebDriver: Working with Elements
	Day-35			2		2	Navigation, Manipulation, Interrogation with Selenium Webdriver - 57m Mouse and Keyboard Actions - Introduction - 7m Mouse and Keyboard Actions - Drag and Drops - 31m Mouse and Keyboard Actions - Developer Tools, Resize, Draw - 29m	02:04:00	Selenium WebDriver: Working with Elements
							Implicit and Explicit Waits - Introduction - 16m		Week 7 KBA on the basis of Mastering Selenium WebDriver 3.X Test Automation, Selenium WebDriver: Working with Elements
	Day-36	Automation - Selenium		2			Implicit and Explicit Waits - Implicit Waits - 21m Implicit and Explicit Waits - Explicit Waits - 21m Implicit and Explicit Waits - Explicit Waits - 14m Expected Conditions, Default Wait, and Best Practices - 25m	01:16:00	Selenium WebDriver: Working with Elements
Week 8	Day-37		Different frameworks-Basics of hybrid, data-driven, and BOD frameworks.	2			Page Object Model - 12m Linew Scripting and Module Based Approach - 10m Linew Scripting and Module Based Approach - 10m Linew Scripting Doub Source - XS - 12m Library architecture for Frameworks - 12m Data Driven Approach and Keyword and Hyfeid Framework Creation Approach - 28m TDD and BDD - 41m	02:05:00	Automation Framework Models Training
Weeks	Day-38		Intro to UI Automation, Fundamentals of UI Automation tools, Getting started, Core concepts - POM, Dynamic handling etc	2		1	Setting Up the Environment - 0h 15m 57s, Components of a Test Framework - 0h 12m 34s Working with Web Element - 0h 17m 61s Effective Page Object Model - 0h 19m 05s Design Patterns and Principles - 0h 20m 12s Test Reports and Making Fest Results Visual - 0h 10m 25s Lett Reports and Making Fest Results Visual - 0h 10m 25s Utilizing Continuous Integration - 0h 05m 40s Utilizing Continuous Integration - 0h 05m 40s	01:53:00	Building UI Automation Test Frameworks with Selenium WebDriver
	Day-39 Day-40		Hands On Selenium Webdriver to try different Element locators, handle web elements, and synchronize actions. MILESTONE ASSESSMENT 3		2				
	52,40								Week 8 KBA on the basis of Selenium WebDriver: Working with Elements, Automation Framework Models Training, Building UI Automation Test Frameworks with Selenium WebDriver
	Day-41			2			Continuous Integration and Continuous Delivery (CI/CD) - 1hr 11m Getting Started with Jenkins	02:25:00	
Week 9	Day-42	CI/CD - Jenkins	Setting up Jenkins pipelines, integrating automated tests with Jenkins, triggerling jobs, and configuring reports.	2		2	Source Code Build Process - 4en Build Andervation - 10m Gill telegration with Vectoria - 4en Gill telegration with Vectoria - 4en Configuration Gill with Inelians - 2m Jeneikin Gillub Proging - 3m Maven Introduction - 2m Maven Setup with Inelians - 3m Jeniss Build Introduction - 2m Jeniss Build Introduction - 2m Source Control Polling in Inelians - 3m Freeship Rejugic in Jenism - 4m Freeship Rejugic - 4m Freeship Rejugic - 4m Freeship Rejugic - 4m Jenism Septim - 1m Jenism Jenism - 1m Jenism Septim - 1m Jenism Jenism	02:14:00	CI/CD Pipelines with Jenkins Certification Training. Course
	Day-43		Integrate automation tests into CI workflows and handle basic failures in	2		2	Jenkins CLI (Command Line Interface) - 32m Deployment Overview - 1hr 4m Jenkins X - 33m Jenkins with Docker - 54m	02:09:00	
	Day-44 Day-45		Jenkins pipelines.	2			Jenkins with Ansible - 1hr Managing and Monitoring Jenkins - 1hr 7m	01:54:00	
	<i>∪</i> ay-45						Jenkins Best Practices - 52m	01:59:00	Week 9 - KBA on the basis of Selenium WebDriver: Working with Elements, Automation Framework Models Training, Building UI Automation Test Frameworks with Selenium WebDriver

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	Day-46	CI/CD - GitLab	Setting up GitLab runners, configuring pipelines, integrating tests.	2		1	Automated DevOps Pipelines - 50m Build Stages, Artifacts, and Variables - 44m Automated Application Deployment - 40m	02:14:00	Hands-On Auto DevOps with GitLab CI
Week 10	Day-47			2			Application Quality and Monitoring - 37m Custom CI Infrastructure - 45m	01:22:00	
	Day-48		Troubleshooting Common Jenkins Issues (Pipeline Failures, Configuration Problems), Understanding Jenkins Plugins and Their Configurations Managing source control & CI/CD integration		2				
	Day-49		MILESTONE ASSESSMENT 4						
	Day-50		Agile methodologies, test planning/execution in sprints, and continuous testing practices, Overview of Pod Model in Agile Methodology Pod Composition and Collaboration Practices.		2	1			
									Week 10 - KBA on the basis of Hands-On Auto DevOps with GitLab CI
	Day-51		MILESTONE ASSESSMENT 5						
	Day-52			2			Introduction - 32m Recording the JMeter Scripts - 37m How to put load and analyse performance metrics - 1hr	02:09:00	Learn JMETER from Scratch on Live Apps - Performance Testing
	Day-53		Creating test plans, thread groups, load testing, and performance analysis reports.	2		2	Advanced Thread Group Methods for Real time load with JMeter - 21m Http Cookie Manager to capture sessions - 24m Assertions in JMeter - 26m JMeter controllers for Modules wise Metrics - 1hr 10m	02:21:00	Learn JMETER from Scratch on Live Apps - Performance Testing
Week 11	Day-54	Performance Testing - JMeter		2			Inters in Meter - 24m Importance of Regular expressions in Meter - 39m Data Driven testing with JiMeter - 24m Handling Dynamic Responses - Advanced JiMeter - 2 - 7m Handling Dynamic Responses - Advanced JiMeter - 3 - 6m Handling Dynamic Responses - Advanced Meter - 4 - 9m Handling Dynamic Responses - Advanced Meter - 5 - 7m	01:56:00	Learn JMETER from Scratch on Live Apps - Performance Testing
	Day-55		Distributed testing, correlation, parameterization, and integrating IMeter with CI/CD pipelines.	2		2		01:36:00	Learn JMETER from Scratch on Live Apps - Performance Testing
									Week 11 - KBA
	Day-56			2			Integration of Selenium with JMeter - 23m REST API Load Testing using JMeter - 48m Monitoring Server performance - 18m	01:29:00	Learn JMETER from Scratch on Live Apps - Performance Testing
W1-45	Day-57			2		-	Environment Setup - 24m	00:24:00	HP LoadRunner 12.55 (Latest Version)
Week 12	Day-58	I		2			VuGen - 1h 33m	1:33:00	HP LoadRunner 12.55 (Latest Version)
	Day-59		Recording/enhancing performance test scripts, running tests, analyzing results, and CI/CD integration for continuous testing.	2		2	Controller - 1h 11m Analysis - 1h 3m	02:14:00	HP LoadRunner 12.55 (Latest Version)
	Day-60	Performance Testing -		2			HP LoadRunner - Correlation Introduction - 49m HP LoadRunner - Automatic Correlation - 15m HP LoadRunner - Manual Correlation - 34m HP LoadRunner - Correlation - Ordinal Value - 33m	02:12:00	HP LoadRunner 12.55 (Latest Version)
		LoadRunner							Week 12 KBA on the basis of Learn JMETER from Scratch on Live Apps - Performance Testing
	Day-61	1		2			Parameterization - 2h 11m	02:11:00	HP LoadRunner 12.55 (Latest Version)
Week 13	Day-62		LoadRunner Script Enhancements (Parameterization), LoadRunner Script Enhancements (Correlation), Understanding Load Testing Metrics (Throughput), Understanding Load Testing Metrics (Response Time)		2				
	Day-63		MILESTONE ASSESSMENT 6						
									Week 13 KBA on the basis of HP LoadRunner 12.55 (Latest Version)
1 +	Day-64		Capstone Project	16	2		Total Duration	90:32:00	(Latest version)
	,		Total Duration in Hrs	114	18	32	- III. Juliution	22.32.00	
			Total Duration in Mrs		132		1		