Program Agenda

Java, J2EE, Web CICD

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	1	Basics of Java
		JVM
	4 hours	Java coding steps
		Program structure
		variables and data types
		constants
		type conversion
		control structures - if, for, while, switch
1		class definition
'		fields, methods
		constructors
		overloading
	2 hours	String & StringBuilder class
		Java API reference
		Object lifecycle
		Arrays in Java
		enhanced for loop for arrays
		primitive arrays VS object arrays
	2 hours	Lab
2	2 hours	Inheritance
		Super class and Sub class concept
		what is not inherited
		super keyword
		Overriding
		Polymorphism
	2 hours	Abstract Classes
		Interfaces
		default methods of interfaces
	2 hours	Object class and methods
		Wrapper classes
		Autoboxing and unboxing
	2 hours	Lab
3	2 hours	Generic classes
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Ī		4 hours	List, Set and the other Collection classes
			Map interface
			Usage of Comparable and Comparator
		2 hours	Lab
		2 hours (SQL, JDBC)	SQL overview
			JDBC
			Java Persistence API with hibernate
4	/1		JPA mapping types
	7		Introduction to Webservices
			Basic difference between Soap and Restful
		4 hours (Web services)	How to build Restful services
			Differences between PUT, PATCH and POST operations
			Deploy Restful services
			How to consume Restful Services/Building clients
		2 hours	Lab

	GIT and GITHub Jenkins CI/CD Duration 1 day	
	Git and GitHub 2 hours	Git Basics
		Working with Branches
		Forking and contributing
		Collaboration
	CI/CD with Git and Jenkins 4 Hours	Introduction
5		Jenkins Installation and usage
		Jenkins script
		Jenkins Configuration
		CI/CD pipeline using GIT and Jenkins
		Integrating Jenkins in CI/CD pipeline
	2 hours	Lab