

SNO	TOPIC	SUB TOPIC	DURATION
1	ENTERPRIE APPLICATION	Web Application	1
		FrontEnd Applicatio & Technologies	
		BackEnd Applicatio & Technologies	
		Basic 3 Tier Application	
2	JAVA INTRO AND INSTALLATION	Java History	
		JAVA Features	
		Installation of JDK	
		First Program	
		High level of Application flow	
		Installation of Tool	
3	JAVA FUNDAMENTALS	keywords	1
		literals	
		datatypes	
		typecasting	
		arrays	2
		package	
		modifiers	
		method,class,object	
4	CONTROL STATEMENTS	conditional statements:for-else,if-else,switch-case	1
		Iterative statements:for,while,do-jump statements:break,continue	
5	OBJECT ORIENTED PROGRAMING	Encapsulation	4
		Inheritance	
		Abstraction	
		Polymorphism	
6	EXCEPTION HANDLING	Application flow	1
		Normal Termination	
		Exception Hirearchy	
		Checked and Unchecked Exception	
		try-catch blocks	
		finally blocks	1
		Custom Exception Scenerios	
		throw keyword	
		Exception Scenerios	
7	COLLECTION FRAMEWORK	hirearchy	1
		Collection,List,Set,Queue	2
		ArrayList,LinkedList,HashSet,TreeSet	2
		PriorityQueue,ArryDeque	1
		Map and its classes	1
Capstone Project			2
8	java.lang package	Object class	1
		Wrapper classes Autoboxing, Auto Unboxing and its respective methods	1
		String class, Custom Immutable class	1
		String Builder	1
		String Buffer	
ADVANCE JAVA			
9	Generics	Intro WRT to Methods,Cclasses and	1

10	Functional Programming	Functional Interfaces	1
		Lambda Exprssions	1
11	Stream API	Streams Intro, No reusable, Lazy	1
		Intermediate Operations, Terminal Operations	3
		Stateful and Stateless	1
12	Date Time API	LocalDate,LocalDateTime,LoalTime classes and methods	1
13	Optional Class	Usage and methods	1
14	Regular Expressions	Pattern Class,Matcher Class and	1
15	MYSQL	Intro&Installation	1
		SQL Commands	2
16	JDBC	Intro,Interfaces	1
		CrudOperations	1
17	MAVEN TOOL	Intro,Types of Repos	1
		Dependence Management and other	
18	PROPERTIES	Properties file and 3rd party library	1
19	LOGGING	Intro and Usage	
20	JUNIT	Intro and Assertions	1
21	CapstoneProject		2
22	SPRING	Intro	1
		Modules	
		IOC container	
		Dependency Injection	
23	SPRING BOOT	Intro	1
		AutConfiguration	
		SpringBootApplication Annotation	
24	Persistence Layer using Spring	Intro,ORM	1
		JPA	1
		Quer Approach	1
		NamedQuery approach	1
		Method name approach	1
		Transaction managemet	1
		eTOOne,OneToMany,ManyToMany den	2
25	REST api using spring	Intro,MVC architecture	1
		Httpmethods	1
		Postman tool	
		HttpMessage converters	
		Exception handling	
		Validation of input data	1
		CORS	1
		Swagger	
26	Microservies	Intro	1
		Service discovery	
		Resiliece	
27	Final Capstone Project		5
			75 hrs