COMPETENCIES	STT	SUB-COMPETENCIES
	1	CSS3 Attributes and Properties
	2	Using Components and Data Binding
[WEB-GROUP-A] ANGULAR	3	Using Directives
	4	Using Forms
	5	Coding with TypeScript
	6	HTML5 Syntax and Semantics
	7	HTML5 Document Types and Structure
	8	Coding with TypeScript
	9	Using JavaScript
	10	Arrays
	11	Document Objects
	12	Handling Events
[WEB-GROUP-A] REACT	13	Handling Functions
[MES SHOOT AJINEAU	14	JavaScript Flow Control
	15	Operators and Expressions
	16	Variables and Syntax
	17	React.js: Components
	18	React.js: Lifecycle Methods
	19	React.js: Props
	20	React.js: State
	21	CSS3 Styling
	22	HTML5 APIs
	23	HTML5 Local Storage
	24	HTML5 DOM
	25	Asynchronous Programming
	26	Defining Custom Objects
IMED COOLD DI ANCLII AD	27	Classes
[WEB-GROUP-B] ANGULAR	28	Keyed Collections
	29	Arrow Functions
	30	Using Templates, Expressions and Pipes
	31	Project Structure, Setup, Debugging and Building for Release
	32	Routing and Authentication
	33	Angular 5 and 6 Version-Specific Knowledge

COMPETENCIES	STT	SUB-COMPETENCIES
	35	Asynchronous Programming
	36	Defining Custom Objects
	37	Sub-Topic 8
IMED ODOLID DI DEACT	41	React.js: Events, Refs and Router
[WEB-GROUP-B] REACT	42	React.js: Configuration and Setup
	43	React.js: JSX
	44	Redux and React.js
	45	Android Architecture
	46	Android UI Framework
	47	Android Local App Data Storage Management
ANDROID GROUP A V2.0	48	Android Networking
ANDROID GROOT A V2.0	49	Android Activity Life Cycle
	50	Android UI App Navigatio
	51	Android In-App Communication
	52	Android-Contextual Kotlin
	53	Android Application Structural Format
	54	Android Multimedia Components
	55	Android Security and Permissions
ANDROID GROUP B V2.0	56	Android UI Agnostic Device Programming
ANDROID GROUP B V2.0	57	Android Version Compatibility
	58	Android Performance Optimization
	59	Android User Notifications
	60	Android Resource Optimization
	61	Language Types
	62	Composite Literals
	63	Go Language Fundamentals
	64	Flow Control
	65	Functions and Methods
GOLANG GROUP A V1.3	66	Exceptions and Error Handling
SOLANG GROUP A VI.3	67	Packages and Composition
	68	Understanding Web APIs
	69	Web API and Microservice Data Formats

COMPETENCIES	STT	SUB-COMPETENCIES
	70	Developing RESTful Applications
	71	MySQL Query Development
	72	Using SQL in Databases
	73	Concurrency and Channels
	74	System and I/O
	75	Standard Library
	76	Web and Networking
	77	Build, Ship and Share
GOLANG GROUP B V1.3	78	Documenting and Testing
	79	Conventions and Common Mistakes
	80	Securing Web APIs
	81	Testing Web APIs
	82	Docker
	83	ACID and BASE
	84	Cocoa Touch Foundations
	85	View Controllers and Gesture Handling
	86	Using Interface Builder
	87	UIView Subclasses
	88	Data Access and Persistence
100 00010 4 4 40 0	89	Swift Fundamentals
IOS GROUP A (V2.0)	90	Syntax and Operators
	91	Literals and Data Types
	92	Standard Object Types
	93	Functions and Methods
	94	Classes and Structures
	95	Control Flow and Iteration
	96	Object-Oriented Programming
	97	Local and Remote Notifications
	98	Core Location and Core Motion
	99	Debugging and Performance Optimization
	100	Standard Library
IOS GROUP B (V2.0)	101	Object-Oriented Programming

COMPETENCIES	STT	SUB-COMPETENCIES
	102	Foundation Library
	103	Error Handling
	104	Concurrent Programming
	105	Memory Management
	106	Declarations
	107	Java Program Construction
	108	Object Orientation in Java
	109	Flow Control
	110	Access Modifiers
JAVA GROUP A (V2.2)	111	Strings, Formatting and Parsing
JAVA GROOF A (VZ.Z)	112	Exception Handling
	113	Git
	114	Classes and Objects
	115	Class Structures
	116	Developing RESTful Applications
	117	MySQL Query Development
	118	REST Web Services
	119	Java I/O
	120	Compilation and Deployment
	121	Assignment
	122	Interfaces
	123	Internationalization
	124	Java Streams
JAVA GROUP B (V2.0)	125	Spring MVC Framework
UNIVACROOF B (V2.0)	126	Hibernate: Annotation-Based Configuration
	127	Docker
	128	Encapsulation
	129	Associations
	130	ACID and BASE
	131	Database Model Concepts

COMPETENCIES	STT	SUB-COMPETENCIES	
			Tê
	1	CSS3 Attributes and Properties	Build Responsive Real Wo
	2	Using Components and Data Binding	Lightning Web Component
[WEB-GROUP-A] ANGULAR	3	Using Directives	Java Web Services
	4	Using Forms	The Complete Web Develo
	5	Coding with TypeScript	Understanding TypeScript
	6	HTML5 Syntax and Semantics	Modern HTML & CSS Fron
	7	HTML5 Document Types and Structure	Build Responsive Real Wo
	8	Coding with TypeScript	HTML5 Specialist: Compre
	9	Using JavaScript	Accelerated ES6 JavaScrip
	10	Arrays	Ultimate Web Designer & D
	11	Document Objects	The Complete Web Develo
	12	Handling Events	Node with React: Fullstack
[WEB-GROUP-A] REACT	13	Handling Functions	The Complete Web Develo
[WEB SKOOL AJIKEAST	14	JavaScript Flow Control	Advanced Javascript
	15	Operators and Expressions	Java Web Services
	16	Variables and Syntax	The Complete Web Develo
	17	React.js: Components	React JS, Angular & Vue J
	18	React.js: Lifecycle Methods	Modern React with Redux
	19	React.js: Props	React - The Complete Guid
	20	React.js: State	React JS - Mastering Redu
	21	CSS3 Styling	Build Responsive Real Wo
	22	HTML5 APIs	20 Web Projects With Vani
	23	HTML5 Local Storage	Complete Web Application
	24	HTML5 DOM	HTML5 Essentials for Begi
	25	Asynchronous Programming	The Result-Oriented Web [
	26	Defining Custom Objects	The Complete ASP.NET M
	27	Classes	Dynamic JavaScript Maste
[WEB-GROUP-B] ANGULAR	28	Keyed Collections	The Complete Web Develo
	29	Arrow Functions	The Complete JavaScript C
	30	Using Templates, Expressions and Pipes	The Complete Web Develo
	31	Project Structure, Setup, Debugging and Building for Release	Build Responsive Real Wo
	32	Routing and Authentication	Ionic 5 - Build iOS, Android
	33	Angular 5 and 6 Version-Specific Knowledge	Angular - The Complete Gu
L		1	•

COMPETENCIES	STT	SUB-COMPETENCIES	
	35	Asynchronous Programming	The Complete 2020 Web D
	36	Defining Custom Objects	The Complete 2020 Web D
	37	Sub-Topic 8	The Complete Web Develo
	41	React.js: Events, Refs and Router	React - The Complete Guid
[WEB-GROUP-B] REACT	42	React.js: Configuration and Setup	Modern React with Redux
	43	React.js: JSX	React - The Complete Guid
	44	Redux and React.js	React JS - Mastering Redu
	45	Android Architecture	Android Architecture Maste
	46	Android UI Framework	The Complete Android & Ja UI/UX
	47	Android Local App Data Storage Management	The Complete Android Ore Apps!
ANDROID GROUP A V2.0	48	Android Networking	How to make a Social Netw Development
ANDIOD ORGO, A. 12.0	49	Android Activity Life Cycle	The Comprehensive 2020
	50	Android UI App Navigatio	Android Java Masterclass -
	51	Android In-App Communication	The Complete Android Ore Apps!
	52	Android-Contextual Kotlin	Android App Development
	53	Android Application Structural Format	Ionic 5 - Build iOS, Android
	54	Android Multimedia Components	The Complete Android N D
	55	Android Security and Permissions	Mobile Penetration Testing
	56	Android UI Agnostic Device Programming	The Complete Android & Ja UI/UX
ANDROID GROUP B V2.0	57	Android Version Compatibility	Android O & Java - The Co Bootcamp
	58	Android Performance Optimization	Android Java Masterclass -
	59	Android User Notifications	Android Jetpack masterclas
	60	Android Resource Optimization	The Complete Android N D
_	61	Language Types	Go: The Complete Develop
	62	Composite Literals	Learn How To Code: Goog Language
	63	Go Language Fundamentals	Go: The Complete Develop
	64	Flow Control	Go (Golang): The Complete
	65	Functions and Methods	Master Go (Golang) Progra Bootcamp 2020
COLUMN A VA O	66	Exceptions and Error Handling	gRPC [Golang] Master Cla Microservices
GOLANG GROUP A V1.3	67	Packages and Composition	Mastering Hyperledger Cha
	68	Understanding Web APIs	Go: The Complete Develop
	69	Web API and Microservice Data Formats	Golang: Intro to REST API lang

COMPETENCIES	STT	SUB-COMPETENCIES	
	70	Developing RESTful Applications	Mastering Hyperledger Cha
	71	MySQL Query Development	The Ultimate MySQL Booto Expert
	72	Using SQL in Databases	SQL for Beginners: Learn S Design
	73	Concurrency and Channels	Go (Golang): The Complete
	74	System and I/O	Web Development w/ Goog Language
	75	Standard Library	Go: The Complete Develop
	76	Web and Networking	Web Development w/ Goog Language
	77	Build, Ship and Share	gRPC [Golang] Master Clas Microservices
GOLANG GROUP B V1.3	78	Documenting and Testing	Go: The Complete Develop
	79	Conventions and Common Mistakes	Master Go (Golang) Progra Bootcamp 2020
	80	Securing Web APIs	API and Web Service Intro
	81	Testing Web APIs	WebServices/Rest API Tes Projects
	82	Docker	Go: The Complete Develop
	83	ACID and BASE	Go: The Complete Develop
	84	Cocoa Touch Foundations	Reactive Programming in it
	85	View Controllers and Gesture Handling	iOS 13 - How to Make Ama Swift 5
	86	Using Interface Builder	iOS 13 - How to Make Ama Swift 5
	87	UIView Subclasses	iOS 13 - How to Make Ama Swift 5
	88	Data Access and Persistence	Core Data and Realm - Ma
	89	Swift Fundamentals	iOS & Swift: Become An Ap
IOS GROUP A (V2.0)	90	Syntax and Operators	The Complete Xamarin De
	91	Literals and Data Types	Core Data and Realm - Ma
	92	Standard Object Types	The Complete ARKit Cours Apps
	93	Functions and Methods	The Complete 2020 Flutter
	94	Classes and Structures	iOS & Swift: Become An Ap
	95	Control Flow and Iteration	React Native - The Practica
	96	Object-Oriented Programming	The Complete MacOS Dev Desktop!
	97	Local and Remote Notifications	Flutter & Dart - The Comple
	98	Core Location and Core Motion	The Complete iOS 12 & Sv Apps
	99	Debugging and Performance Optimization	React Native - The Practica
	100	Standard Library	The Complete iOS 12 & Sv Apps
IOS GROUP B (V2.0)	101	Object-Oriented Programming	iOS 13 - How to Make Ama Swift 5

COMPETENCIES	STT	SUB-COMPETENCIES	
	102	Foundation Library	The Complete iOS 12 & Sv Apps
	103	Error Handling	iOS 13 - How to Make Ama Swift 5
	104	Concurrent Programming	Reactive Programming in it
	105	Memory Management	Java Memory Managemen
	106	Declarations	Java Programming Mastero
	107	Java Program Construction	Java Swing (GUI) Program
	108	Object Orientation in Java	Absolute Introduction to Ob
	109	Flow Control	The Complete Java Certific
	110	Access Modifiers	Java Masterclass - Beginne
JAVA GROUP A (V2.2)	111	Strings, Formatting and Parsing	Spring & Hibernate for Beg
JAVA OROGI A (VZ.Z.	112	Exception Handling	Automation Architect - Sele
	113	Git	Git Going Fast: One Hour (
	114	Classes and Objects	Java Certification SE 1Z0-8
	115	Class Structures	Practical Data Structures &
	116	Developing RESTful Applications	Master Java Web Services
	117	MySQL Query Development	Java Database Connection
	118	REST Web Services	Java Web Services
	119	Java I/O	Java Masterclass - Beginne
	120	Compilation and Deployment	Learn AWS - Deploy Java
	121	Assignment	Java for complete beginner
	122	Interfaces	Java Programming for Con
	123	Internationalization	Spring Framework 5: Begin
	124	Java Streams	Java Streams API Develop
JAVA GROUP B (V2.0)	125	Spring MVC Framework	Spring Framework 5: Begir
JAVA GILOUI B (V2.0)	126	Hibernate: Annotation-Based Configuration	Spring & Hibernate for Beg
	127	Docker	Docker for Java Developer
	128	Encapsulation	Java Programming Master
	129	Associations	Java In-Depth: Become a 0
	130	ACID and BASE	Java Programming Master
	131	Database Model Concepts	The Complete Database D

COMPETENCIES	STT	SUB-COMPETENCIES	
			Link Udemy
	1	CSS3 Attributes and Properties	<u>Link</u>
	2	Using Components and Data Binding	<u>Link</u>
[WEB-GROUP-A] ANGULAR	3	Using Directives	<u>Link</u>
	4	Using Forms	<u>Link</u>
	5	Coding with TypeScript	<u>Link</u>
	6	HTML5 Syntax and Semantics	<u>Link</u>
	7	HTML5 Document Types and Structure	<u>Link</u>
	8	Coding with TypeScript	<u>Link</u>
	9	Using JavaScript	<u>Link</u>
	10	Arrays	<u>Link</u>
	11	Document Objects	<u>Link</u>
	12	Handling Events	<u>Link</u>
[WEB-GROUP-A] REACT	13	Handling Functions	<u>Link</u>
	14	JavaScript Flow Control	<u>Link</u>
	15	Operators and Expressions	<u>Link</u>
	16	Variables and Syntax	<u>Link</u>
	17	React.js: Components	<u>Link</u>
	18	React.js: Lifecycle Methods	<u>Link</u>
	19	React.js: Props	<u>Link</u>
	20	React.js: State	<u>Link</u>
	21	CSS3 Styling	<u>Link</u>
	22	HTML5 APIs	<u>Link</u>
	23	HTML5 Local Storage	<u>Link</u>
	24	HTML5 DOM	<u>Link</u>
	25	Asynchronous Programming	<u>Link</u>
	26	Defining Custom Objects	<u>Link</u>
TAVED ODOLID DI ANOLII AD	27	Classes	<u>Link</u>
[WEB-GROUP-B] ANGULAR	28	Keyed Collections	<u>Link</u>
	29	Arrow Functions	<u>Link</u>
	30	Using Templates, Expressions and Pipes	<u>Link</u>
	31	Project Structure, Setup, Debugging and Building for Release	<u>Link</u>
	32	Routing and Authentication	<u>Link</u>
	33	Angular 5 and 6 Version-Specific Knowledge	<u>Link</u>

COMPETENCIES	STT	SUB-COMPETENCIES	
	35	Asynchronous Programming	<u>Link</u>
	36	Defining Custom Objects	<u>Link</u>
	37	Sub-Topic 8	<u>Link</u>
	41	React.js: Events, Refs and Router	<u>Link</u>
[WEB-GROUP-B] REACT	42	React.js: Configuration and Setup	<u>Link</u>
	43	React.js: JSX	<u>Link</u>
	44	Redux and React.js	<u>Link</u>
	45	Android Architecture	<u>Link</u>
	46	Android UI Framework	<u>Link</u>
	47	Android Local App Data Storage Management	<u>Link</u>
ANDROID GROUP A V2.0	48	Android Networking	<u>Link</u>
ANDICOID GROOF A V2.0	49	Android Activity Life Cycle	<u>Link</u>
	50	Android UI App Navigatio	<u>Link</u>
	51	Android In-App Communication	<u>Link</u>
	52	Android-Contextual Kotlin	<u>Link</u>
	53	Android Application Structural Format	<u>Link</u>
	54	Android Multimedia Components	<u>Link</u>
	55	Android Security and Permissions	<u>Link</u>
	56	Android UI Agnostic Device Programming	<u>Link</u>
ANDROID GROUP B V2.0	57	Android Version Compatibility	<u>Link</u>
	58	Android Performance Optimization	<u>Link</u>
	59	Android User Notifications	<u>Link</u>
	60	Android Resource Optimization	<u>Link</u>
	61	Language Types	<u>Link</u>
	62	Composite Literals	<u>Link</u>
	63	Go Language Fundamentals	<u>Link</u>
	64	Flow Control	<u>Link</u>
	65	Functions and Methods	<u>Link</u>
COLANG OBOUR A V/4 o	66	Exceptions and Error Handling	<u>Link</u>
GOLANG GROUP A V1.3	67	Packages and Composition	<u>Link</u>
	68	Understanding Web APIs	<u>Link</u>
	69	Web API and Microservice Data Formats	<u>Link</u>

COMPETENCIES	STT	SUB-COMPETENCIES	
	70	Developing RESTful Applications	<u>Link</u>
	71	MySQL Query Development	<u>Link</u>
	72	Using SQL in Databases	<u>Link</u>
	73	Concurrency and Channels	<u>Link</u>
	74	System and I/O	<u>Link</u>
	75	Standard Library	<u>Link</u>
	76	Web and Networking	<u>Link</u>
	77	Build, Ship and Share	<u>Link</u>
GOLANG GROUP B V1.3	78	Documenting and Testing	<u>Link</u>
	79	Conventions and Common Mistakes	<u>Link</u>
	80	Securing Web APIs	<u>Link</u>
	81	Testing Web APIs	<u>Link</u>
	82	Docker	<u>Link</u>
	83	ACID and BASE	<u>Link</u>
	84	Cocoa Touch Foundations	<u>Link</u>
	85	View Controllers and Gesture Handling	<u>Link</u>
	86	Using Interface Builder	<u>Link</u>
	87	UIView Subclasses	<u>Link</u>
	88	Data Access and Persistence	<u>Link</u>
	89	Swift Fundamentals	<u>Link</u>
IOS GROUP A (V2.0)	90	Syntax and Operators	<u>Link</u>
	91	Literals and Data Types	<u>Link</u>
	92	Standard Object Types	<u>Link</u>
	93	Functions and Methods	<u>Link</u>
	94	Classes and Structures	<u>Link</u>
	95	Control Flow and Iteration	<u>Link</u>
	96	Object-Oriented Programming	<u>Link</u>
	97	Local and Remote Notifications	<u>Link</u>
	98	Core Location and Core Motion	<u>Link</u>
	99	Debugging and Performance Optimization	Link
	100	Standard Library	<u>Link</u>
IOS GROUP B (V2.0)	101	Object-Oriented Programming	<u>Link</u>

COMPETENCIES	STT	SUB-COMPETENCIES	
	102	Foundation Library	<u>Link</u>
	103	Error Handling	<u>Link</u>
	104	Concurrent Programming	<u>Link</u>
	105	Memory Management	<u>Link</u>
	106	Declarations	<u>Link</u>
	107	Java Program Construction	<u>Link</u>
	108	Object Orientation in Java	<u>Link</u>
	109	Flow Control	<u>Link</u>
	110	Access Modifiers	<u>Link</u>
JAVA GROUP A (V2.2)	111	Strings, Formatting and Parsing	<u>Link</u>
JAVA GROUP A (V2.2)	112	Exception Handling	<u>Link</u>
	113	Git	<u>Link</u>
	114	Classes and Objects	<u>Link</u>
	115	Class Structures	<u>Link</u>
	116	Developing RESTful Applications	<u>Link</u>
	117	MySQL Query Development	<u>Link</u>
	118	REST Web Services	<u>Link</u>
	119	Java I/O	<u>Link</u>
	120	Compilation and Deployment	<u>Link</u>
	121	Assignment	<u>Link</u>
	122	Interfaces	<u>Link</u>
	123	Internationalization	<u>Link</u>
	124	Java Streams	<u>Link</u>
14) (4 ODOLID D (1/0 0)	125	Spring MVC Framework	<u>Link</u>
JAVA GROUP B (V2.0)	126	Hibernate: Annotation-Based Configuration	<u>Link</u>
	127	Docker	<u>Link</u>
	128	Encapsulation	<u>Link</u>
	129	Associations	<u>Link</u>
	130	ACID and BASE	<u>Link</u>
	131	Database Model Concepts	<u>Link</u>

COMPETENCIES	STT	SUB-COMPETENCIES	
	1	CSS3 Attributes and Properties	Introduction to CSS3
	2	Using Components and Data Binding	
[WEB-GROUP-A] ANGULAR	3	Using Directives	
	4	Using Forms	
	5	Coding with TypeScript	
	6	HTML5 Syntax and Semantics	Introduction to HTML5
	7	HTML5 Document Types and Structure	HTML, CSS, and Javascrip
	8	Coding with TypeScript	HTML, CSS, and Javascrip
	9	Using JavaScript	HTML, CSS, and Javascrip
	10	Arrays	
	11	Document Objects	
	12	Handling Events	
[WEB-GROUP-A] REACT	13	Handling Functions	
[WED-OROOF ATTEMS.	14	JavaScript Flow Control	Interactivity with JavaScript
	15	Operators and Expressions	Full-Stack Web Developme
	16	Variables and Syntax	Full-Stack Web Developme
	17	React.js: Components	Front-End Web Developme
	18	React.js: Lifecycle Methods	Front-End Web Developme
	19	React.js: Props	Front-End Web Developme
	20	React.js: State	Front-End Web Developme
	21	CSS3 Styling	Introduction to CSS3
	22	HTML5 APIs	
	23	HTML5 Local Storage	
	24	HTML5 DOM	
	25	Asynchronous Programming	Front-End JavaScript Fram
	26	Defining Custom Objects	
	27	Classes	Full-Stack Web Developme
[WEB-GROUP-B] ANGULAR	28	Keyed Collections	
	29	Arrow Functions	
	30	Using Templates, Expressions and Pipes	Full-Stack Web Developme
	31	Project Structure, Setup, Debugging and Building for Release	Front-End JavaScript Fran
	32	Routing and Authentication	Full-Stack Web Developme
	33	Angular 5 and 6 Version-Specific Knowledge	
		l	

COMPETENCIES	STT	SUB-COMPETENCIES	
	35	Asynchronous Programming	Single Page Web Application
	36	Defining Custom Objects	Introduction to CSS3
	37	Sub-Topic 8	Full-Stack Web Developme
	41	React.js: Events, Refs and Router	Full-Stack Web Developme
[WEB-GROUP-B] REACT	42	React.js: Configuration and Setup	Full-Stack Web Developme
	43	React.js: JSX	Full-Stack Web Developme
	44	Redux and React.js	Full-Stack Web Developme
	45	Android Architecture	
	46	Android UI Framework	Responsive Website Devel
	47	Android Local App Data Storage Management	Android App Components -
ANDROID GROUP A V2.0	48	Android Networking	Android App Components -
ANDROID GROUP A V2.0	49	Android Activity Life Cycle	Android App Components -
	50	Android UI App Navigatio	Android App Components -
	51	Android In-App Communication	Android App Components -
	52	Android-Contextual Kotlin	Android App Components -
	53	Android Application Structural Format	
	54	Android Multimedia Components	
	55	Android Security and Permissions	
	56	Android UI Agnostic Device Programming	
ANDROID GROUP B V2.0	57	Android Version Compatibility	
	58	Android Performance Optimization	
	59	Android User Notifications	
	60	Android Resource Optimization	
	61	Language Types	Getting Started with Go
	62	Composite Literals	
	63	Go Language Fundamentals	
	64	Flow Control	Getting Started with Go
	65	Functions and Methods	Concurrency in Go
OOLANG ODOUG AND	66	Exceptions and Error Handling	Functions, Methods, and In
GOLANG GROUP A V1.3	67	Packages and Composition	
	68	Understanding Web APIs	Programming with Google
	69	Web API and Microservice Data Formats	
			l

COMPETENCIES	STT	SUB-COMPETENCIES	
	70	Developing RESTful Applications	
	71	MySQL Query Development	
	72	Using SQL in Databases	
	73	Concurrency and Channels	
	74	System and I/O	Programming with Google
	75	Standard Library	Concurrency in Go
	76	Web and Networking	
	77	Build, Ship and Share	Functions, Methods, and In
GOLANG GROUP B V1.3	78	Documenting and Testing	Programming with Google
	79	Conventions and Common Mistakes	Getting Started with Go
	80	Securing Web APIs	
	81	Testing Web APIs	
	82	Docker	
	83	ACID and BASE	Getting Started with Go
	84	Cocoa Touch Foundations	
	85	View Controllers and Gesture Handling	iOS Development for Creat
	86	Using Interface Builder	Introduction to iOS App De
	87	UIView Subclasses	UI / UX Design Specializati
	88	Data Access and Persistence	Introduction to Programmin
	89	Swift Fundamentals	
IOS GROUP A (V2.0)	90	Syntax and Operators	
	91	Literals and Data Types	
	92	Standard Object Types	Swift 5 iOS Application Dev
	93	Functions and Methods	
	94	Classes and Structures	Introduction to Programmin
	95	Control Flow and Iteration	iOS App Development with
	96	Object-Oriented Programming	
	97	Local and Remote Notifications	Swift 5 iOS Application Dev
	98	Core Location and Core Motion	Introduction to iOS App De
	99	Debugging and Performance Optimization	
	100	Standard Library	Swift 5 iOS Application Dev
IOS GROUP B (V2.0)	101	Object-Oriented Programming	

COMPETENCIES	STT	SUB-COMPETENCIES	
	102	Foundation Library	Swift 5 iOS Application Dev
	103	Error Handling	iOS Development for Creat
	104	Concurrent Programming	
	105	Memory Management	iOS App Development with
	106	Declarations	Parallel, Concurrent, and D
	107	Java Program Construction	Java Programming: Solving
	108	Object Orientation in Java	Object Oriented Programm
	109	Flow Control	
	110	Access Modifiers	
JAVA GROUP A (V2.2)	111	Strings, Formatting and Parsing	Building Scalable Java Mic
JAVA GROUP A (V2.2)	112	Exception Handling	
	113	Git	Version Control with Git
	114	Classes and Objects	Parallel Programming in Ja
	115	Class Structures	
	116	Developing RESTful Applications	
	117	MySQL Query Development	
	118	REST Web Services	Java Programming: Solving
	119	Java I/O	
	120	Compilation and Deployment	
	121	Assignment	Java Programming and So
	122	Interfaces	Parallel, Concurrent, and D
	123	Internationalization	Learn to Teach Java Speci
	124	Java Streams	Parallel Programming in Ja
IA) (A CDOUD D (\(\(\) \(\) \)	125	Spring MVC Framework	Building Cloud Services wit
JAVA GROUP B (V2.0)	126	Hibernate: Annotation-Based Configuration	Parallel, Concurrent, and D
	127	Docker	
	128	Encapsulation	Java Programming: Solving
	129	Associations	Java Programming and So
	130	ACID and BASE	Cloud Computing Application
	131	Database Model Concepts	Web Applications for Every

COMPETENCIES	STT	SUB-COMPETENCIES	
			Link COUSERA
	1	CSS3 Attributes and Properties	<u>Link</u>
	2	Using Components and Data Binding	Link
[WEB-GROUP-A] ANGULAR	3	Using Directives	Link
	4	Using Forms	Link
	5	Coding with TypeScript	Link
	6	HTML5 Syntax and Semantics	<u>Link</u>
	7	HTML5 Document Types and Structure	<u>Link</u>
	8	Coding with TypeScript	<u>Link</u>
	9	Using JavaScript	<u>Link</u>
	10	Arrays	Link
	11	Document Objects	Link
	12	Handling Events	Link
[WEB-GROUP-A] REACT	13	Handling Functions	Link
[WEB GROOF AJREAGT	14	JavaScript Flow Control	<u>Link</u>
	15	Operators and Expressions	<u>Link</u>
	16	Variables and Syntax	<u>Link</u>
	17	React.js: Components	<u>Link</u>
	18	React.js: Lifecycle Methods	<u>Link</u>
	19	React.js: Props	<u>Link</u>
	20	React.js: State	<u>Link</u>
	21	CSS3 Styling	<u>Link</u>
	22	HTML5 APIs	Link
	23	HTML5 Local Storage	Link
	24	HTML5 DOM	Link
	25	Asynchronous Programming	<u>Link</u>
	26	Defining Custom Objects	Link
TAKED ODOLID DI ANOLII AD	27	Classes	<u>Link</u>
[WEB-GROUP-B] ANGULAR	28	Keyed Collections	Link
	29	Arrow Functions	Link
	30	Using Templates, Expressions and Pipes	<u>Link</u>
	31	Project Structure, Setup, Debugging and Building for Release	<u>Link</u>
	32	Routing and Authentication	<u>Link</u>
	33	Angular 5 and 6 Version-Specific Knowledge	Link

COMPETENCIES	STT	SUB-COMPETENCIES	
	35	Asynchronous Programming	<u>Link</u>
	36	Defining Custom Objects	<u>Link</u>
	37	Sub-Topic 8	<u>Link</u>
	41	React.js: Events, Refs and Router	<u>Link</u>
[WEB-GROUP-B] REACT	42	React.js: Configuration and Setup	<u>Link</u>
	43	React.js: JSX	<u>Link</u>
	44	Redux and React.js	<u>Link</u>
	45	Android Architecture	Link
	46	Android UI Framework	<u>Link</u>
	47	Android Local App Data Storage Management	<u>Link</u>
ANDROID GROUP A V2.0	48	Android Networking	<u>Link</u>
ANDROID GROOF A V2.0	49	Android Activity Life Cycle	<u>Link</u>
	50	Android UI App Navigatio	<u>Link</u>
	51	Android In-App Communication	<u>Link</u>
	52	Android-Contextual Kotlin	<u>Link</u>
	53	Android Application Structural Format	Link
	54	Android Multimedia Components	Link
	55	Android Security and Permissions	Link
	56	Android UI Agnostic Device Programming	Link
ANDROID GROUP B V2.0	57	Android Version Compatibility	Link
	58	Android Performance Optimization	Link
	59	Android User Notifications	Link
	60	Android Resource Optimization	Link
	61	Language Types	<u>Link</u>
	62	Composite Literals	Link
	63	Go Language Fundamentals	Link
	64	Flow Control	<u>Link</u>
	65	Functions and Methods	<u>Link</u>
	66	Exceptions and Error Handling	<u>Link</u>
GOLANG GROUP A V1.3	67	Packages and Composition	Link
	68	Understanding Web APIs	<u>Link</u>
	69	Web API and Microservice Data Formats	Link

COMPETENCIES	STT	SUB-COMPETENCIES	
	70	Developing RESTful Applications	Link
	71	MySQL Query Development	Link
	72	Using SQL in Databases	Link
	73	Concurrency and Channels	Link
	74	System and I/O	<u>Link</u>
	75	Standard Library	<u>Link</u>
	76	Web and Networking	Link
	77	Build, Ship and Share	<u>Link</u>
GOLANG GROUP B V1.3	78	Documenting and Testing	<u>Link</u>
	79	Conventions and Common Mistakes	<u>Link</u>
	80	Securing Web APIs	Link
	81	Testing Web APIs	Link
	82	Docker	Link
	83	ACID and BASE	<u>Link</u>
	84	Cocoa Touch Foundations	Link
	85	View Controllers and Gesture Handling	<u>Link</u>
	86	Using Interface Builder	<u>Link</u>
	87	UIView Subclasses	<u>Link</u>
	88	Data Access and Persistence	<u>Link</u>
	89	Swift Fundamentals	Link
IOS GROUP A (V2.0)	90	Syntax and Operators	Link
	91	Literals and Data Types	Link
	92	Standard Object Types	<u>Link</u>
	93	Functions and Methods	Link
	94	Classes and Structures	<u>Link</u>
	95	Control Flow and Iteration	<u>Link</u>
	96	Object-Oriented Programming	Link
	97	Local and Remote Notifications	<u>Link</u>
	98	Core Location and Core Motion	<u>Link</u>
	99	Debugging and Performance Optimization	Link
	100	Standard Library	<u>Link</u>
IOS GROUP B (V2.0)	101	Object-Oriented Programming	Link

COMPETENCIES	STT	SUB-COMPETENCIES		
	102	Foundation Library		<u>Link</u>
	103	Error Handling		<u>Link</u>
	104	Concurrent Programming		Link
	105	Memory Management		<u>Link</u>
	106	Declarations		<u>Link</u>
	107	Java Program Construction		<u>Link</u>
	108	Object Orientation in Java		<u>Link</u>
	109	Flow Control		Link
	110	Access Modifiers		Link
JAVA GROUP A (V2.2)	111	Strings, Formatting and Parsing		<u>Link</u>
JAVA GROOF A (VZ.Z)	112	Exception Handling		Link
	113	Git	<u>Link</u>	
	114	Classes and Objects		<u>Link</u>
	115	Class Structures		Link
	116	Developing RESTful Applications		Link
	117	MySQL Query Development		Link
	118	REST Web Services		<u>Link</u>
	119	Java I/O		Link
	120	Compilation and Deployment		Link
	121	Assignment		<u>Link</u>
	122	Interfaces		<u>Link</u>
	123	Internationalization		<u>Link</u>
	124	Java Streams		<u>Link</u>
JAVA GROUP B (V2.0)	125	Spring MVC Framework	<u>Link</u>	
3AVA ONOOL B (V2.0)	126	Hibernate: Annotation-Based Configuration		<u>Link</u>
	127	Docker		Link
	128	Encapsulation		<u>Link</u>
	129	Associations		<u>Link</u>
	130	ACID and BASE		<u>Link</u>
	131	Database Model Concepts		<u>Link</u>

COMPETENCIES	STT	SUB-COMPETENCIES	
			Tên
	1	CSS3 Attributes and Properties	CSS3 Properties
	2	Using Components and Data Binding	Web Components in Action
[WEB-GROUP-A] ANGULAR	3	Using Directives	Mastering AngularJS Direc
	4	Using Forms	Programming Microsoft® V
	5	Coding with TypeScript	Programming TypeScript
	6	HTML5 Syntax and Semantics	HTML5 Cookbook
	7	HTML5 Document Types and Structure	Great HTML: Level 1
	8	Coding with TypeScript	Mastering HTML5 Forms
	9	Using JavaScript	Learn to Build Progressive
	10	Arrays	Mastering JavaScript Array
	11	Document Objects	DOM Scripting: Web Desig Document Object Model
	12	Handling Events	Hands-On RxJS for Web D
 [WEB-GROUP-A] REACT	13	Handling Functions	A Beginner's Guide to Web
[14	JavaScript Flow Control	JavaScript: Best Practice
	15	Operators and Expressions	The Full Stack Web Develo
	16	Variables and Syntax	Java Quick Syntax Referer
	17	React.js: Components	Getting Started with Web C
	18	React.js: Lifecycle Methods	A Comprehensive Guide to and Cost Control: Methods Project Lifecycle
	19	React.js: Props	JavaScript Series: Masterir
	20	React.js: State	JavaScript React (React.js
	21	CSS3 Styling	CSS: The Definitive Guide,
	22	HTML5 APIs	Pro HTML5 Programming: Internet Application Develo
	23	HTML5 Local Storage	A JavaScript Local Storage
	24	HTML5 DOM	Head First HTML5 Progran
	25	Asynchronous Programming	Asynchronous Programmin
	26	Defining Custom Objects	Java™ How To Program (E
TAVED ODOLLD DI ANOLII AD	27	Classes	Learn Practical Web Comp
[WEB-GROUP-B] ANGULAR	28	Keyed Collections	Modern Java Collections
	29	Arrow Functions	React - The Complete Guid
	30	Using Templates, Expressions and Pipes	Learning Regular Expression
	31	Project Structure, Setup, Debugging and Building for Release	Building Scalable Web Site
	32	Routing and Authentication	CCNP Routing and Switchi
	33	Angular 5 and 6 Version-Specific Knowledge	Pro Angular 6
ı		•	•

COMPETENCIES	STT	SUB-COMPETENCIES	
	35	Asynchronous Programming	Asynchronous Android Pro
	36	Defining Custom Objects	Java™ How To Program (E
	37	Sub-Topic 8	Oracle Certified Profession Exam 1Z0-809: A Comprek Guide
TAKED ODOLID DI DEACT	41	React.js: Events, Refs and Router	Building Web Apps with Sp
[WEB-GROUP-B] REACT	42	React.js: Configuration and Setup	System Center 2012 Opera Second Edition
	43	React.js: JSX	JavaScript React (React.js
	44	Redux and React.js	Learning React.js with Flux
	45	Android Architecture	Android Application Archite
	46	Android UI Framework	UI Testing with the UIAutor
	47	Android Local App Data Storage Management	Android Apps with App Inve
ANDROID GROUP A V2.0	48	Android Networking	Networking Fundamentals
711211012 011001 71 12.0	49	Android Activity Life Cycle	Rapid Android Developmer
	50	Android UI App Navigatio	Android App UI Design with Material Design
	51	Android In-App Communication	Android™ Tips and Tricks: 6 devices, Second Edition
	52	Android-Contextual Kotlin	Android Programming with
	53	Android Application Structural Format	Professional Android, 4th E
	54	Android Multimedia Components	Beginning Android 3
	55	Android Security and Permissions	Android Security Cookbook
ANDROID OROLID B V2 0	56	Android UI Agnostic Device Programming	Smashing Android UI
ANDROID GROUP B V2.0	57	Android Version Compatibility	Android App Compatibility:
	58	Android Performance Optimization	Pro Android Apps Performa
	59	Android User Notifications	Developing Android User Ir Training)
	60	Android Resource Optimization	Android System Programm
	61	Language Types	The Go Programming Lang
	62	Composite Literals	Ultimate Go Programming,
	63	Go Language Fundamentals	Getting started with Go Pro
	64	Flow Control	Go: Design Patterns for Re
	65	Functions and Methods	Ultimate Go Programming,
GOLANG GROUP A V1.3	66	Exceptions and Error Handling	Mastering Go
GULANG GROUP A VI.3	67	Packages and Composition	Go in Action
	68	Understanding Web APIs	Craft GraphQL APIs in Elix
	69	Web API and Microservice Data Formats	Hands-On Software Engine

COMPETENCIES	STT	SUB-COMPETENCIES	
	70	Developing RESTful Applications	Go Web Development Coo
	71	MySQL Query Development	MySQL 8 Cookbook
	72	Using SQL in Databases	Mark Bates on Go Databas
	73	Concurrency and Channels	Hands-on Concurrency with
	74	System and I/O	Go Standard Library Solution
	75	Standard Library	Go Standard Library Cookt
	76	Web and Networking	Network Programming with and Securing Networks
	77	Build, Ship and Share	Black Hat Go
GOLANG GROUP B V1.3	78	Documenting and Testing	Go in Practice
	79	Conventions and Common Mistakes	Go in 24 Hours, Sams Tea Systems Programming with
	80	Securing Web APIs	Building RESTful APIs with
	81	Testing Web APIs	Building RESTful Web serv
	82	Docker	Setting up your Go develop
	83	ACID and BASE	Cloud Native Go: Building \ Microservices for the Cloud
	84	Cocoa Touch Foundations	Learn Cocoa Touch for iOS
	85	View Controllers and Gesture Handling	iOS Developer's Guide to \
	86	Using Interface Builder	Designing Interfaces, 3rd E
	87	UIView Subclasses	iOS SDK Programming A E
	88	Data Access and Persistence	Pro Core Data for iOS: Dat Engine for iPhone, iPad, ar
	89	Swift Fundamentals	Building iOS 10 Application
IOS GROUP A (V2.0)	90	Syntax and Operators	iOS 13 Programming for Be
	91	Literals and Data Types	iOS 10 Programming for Be
	92	Standard Object Types	C++ Standard Template Lit
	93	Functions and Methods	iOS Programming in 7 Day
	94	Classes and Structures	Complete iOS 12 Developr
	95	Control Flow and Iteration	iOS 8 Programming Funda
	96	Object-Oriented Programming	An Introduction to Object-C Objective-C 2.0
	97	Local and Remote Notifications	Complete iOS 12 Developr
	98	Core Location and Core Motion	Mastering iOS Developmer
	99	Debugging and Performance Optimization	High Performance iOS App
	100	Standard Library	iOS Programming: The Big
IOS GROUP B (V2.0)	101	Object-Oriented Programming	Beginning iOS Programmir

COMPETENCIES	STT	SUB-COMPETENCIES	
	102	Foundation Library	Mastering the C++17 STL
	103	Error Handling	iOS Programming: The Big
	104	Concurrent Programming	Concurrent Programming in
	105	Memory Management	Pro Multithreading and Mer OS X
	106	Declarations	Java 8 Fundamentals: Mod Lambdas, Streams, and Int the Java Platform Module 9
	107	Java Program Construction	Program Development in Jand Object-Oriented Desig
	108	Object Orientation in Java	OCA Java SE 8 Programm 808)
	109	Flow Control	Securing Systems
	110	Access Modifiers	From 0 to 1: Learn Java Pr To Code
JAVA GROUP A (V2.2)	111	Strings, Formatting and Parsing	Learning Java, 4th Edition
UNIVITORIOUT TY (V2.2)	112	Exception Handling	Core Java 11 Fundamenta
	113	Git	Git Essentials - Second Ed
	114	Classes and Objects	Beginning Java 9 Fundame Modules, JShell, and Regu
	115	Class Structures	Object-Oriented Data Struc
	116	Developing RESTful Applications	Restlet in Action: Developing
	117	MySQL Query Development	MySQL Cookbook, 3rd Edi
	118	REST Web Services	Master Java Web Services Boot
	119	Java I/O	Java I/O, 2nd Edition
	120	Compilation and Deployment	Java Cookbook, 4th Edition
	121	Assignment	OCA Java SE 8 Programm
	122	Interfaces	Functional Interfaces in Jav Examples
	123	Internationalization	Full Stack Development wit
	124	Java Streams	Programming with Java La
IAVA CROUD B (V2 0)	125	Spring MVC Framework	Spring MVC for Java Deve
JAVA GROUP B (V2.0)	126	Hibernate: Annotation-Based Configuration	Java Hibernate Cookbook
	127	Docker	Docker for Java Developer
	128	Encapsulation	OCA / OCP Java SE 8 Pro
	129	Associations	A Programmer's Guide to J Associate (OCA)
	130	ACID and BASE	Basic Data Analysis with Ja
	131	Database Model Concepts	Java 8 Fundamentals: Mod Lambdas, Streams, and Int the Java Platform Module 9

COMPETENCIES	STT	SUB-COMPETENCIES	
			Link O'REILLY
[WEB-GROUP-A] ANGULAR	1	CSS3 Attributes and Properties	<u>Link</u>
	2	Using Components and Data Binding	<u>Link</u>
	3	Using Directives	<u>Link</u>
	4	Using Forms	<u>Link</u>
	5	Coding with TypeScript	<u>Link</u>
	6	HTML5 Syntax and Semantics	<u>Link</u>
	7	HTML5 Document Types and Structure	<u>Link</u>
	8	Coding with TypeScript	<u>Link</u>
	9	Using JavaScript	<u>Link</u>
	10	Arrays	<u>Link</u>
	11	Document Objects	<u>Link</u>
	12	Handling Events	<u>Link</u>
[WEB-GROUP-A] REACT	13	Handling Functions	<u>Link</u>
[14	JavaScript Flow Control	<u>Link</u>
	15	Operators and Expressions	<u>Link</u>
	16	Variables and Syntax	<u>Link</u>
	17	React.js: Components	<u>Link</u>
	18	React.js: Lifecycle Methods	<u>Link</u>
	19	React.js: Props	<u>Link</u>
	20	React.js: State	<u>Link</u>
	21	CSS3 Styling	<u>Link</u>
	22	HTML5 APIs	<u>Link</u>
	23	HTML5 Local Storage	<u>Link</u>
	24	HTML5 DOM	<u>Link</u>
	25	Asynchronous Programming	<u>Link</u>
	26	Defining Custom Objects	<u>Link</u>
	27	Classes	<u>Link</u>
[WEB-GROUP-B] ANGULAR	28	Keyed Collections	<u>Link</u>
	29	Arrow Functions	<u>Link</u>
	30	Using Templates, Expressions and Pipes	<u>Link</u>
	31	Project Structure, Setup, Debugging and Building for Release	<u>Link</u>
	32	Routing and Authentication	<u>Link</u>
	33	Angular 5 and 6 Version-Specific Knowledge	<u>Link</u>

COMPETENCIES	STT	SUB-COMPETENCIES	
	35	Asynchronous Programming	<u>Link</u>
	36	Defining Custom Objects	<u>Link</u>
	37	Sub-Topic 8	<u>Link</u>
	41	React.js: Events, Refs and Router	<u>Link</u>
[WEB-GROUP-B] REACT	42	React.js: Configuration and Setup	<u>Link</u>
	43	React.js: JSX	<u>Link</u>
	44	Redux and React.js	<u>Link</u>
	45	Android Architecture	<u>Link</u>
	46	Android UI Framework	<u>Link</u>
	47	Android Local App Data Storage Management	<u>Link</u>
ANDROID GROUP A V2.0	48	Android Networking	<u>Link</u>
ANDINOID GROOF A V2.0	49	Android Activity Life Cycle	<u>Link</u>
	50	Android UI App Navigatio	<u>Link</u>
	51	Android In-App Communication	<u>Link</u>
	52	Android-Contextual Kotlin	<u>Link</u>
	53	Android Application Structural Format	<u>Link</u>
	54	Android Multimedia Components	<u>Link</u>
	55	Android Security and Permissions	<u>Link</u>
ANDROID OROUB BYO	56	Android UI Agnostic Device Programming	<u>Link</u>
ANDROID GROUP B V2.0	57	Android Version Compatibility	<u>Link</u>
	58	Android Performance Optimization	<u>Link</u>
	59	Android User Notifications	<u>Link</u>
	60	Android Resource Optimization	<u>Link</u>
	61	Language Types	<u>Link</u>
	62	Composite Literals	<u>Link</u>
	63	Go Language Fundamentals	<u>Link</u>
	64	Flow Control	<u>Link</u>
	65	Functions and Methods	<u>Link</u>
GOLANG GROUP A V1.3	66	Exceptions and Error Handling	<u>Link</u>
	67	Packages and Composition	<u>Link</u>
	68	Understanding Web APIs	<u>Link</u>
	69	Web API and Microservice Data Formats	<u>Link</u>

COMPETENCIES	STT	SUB-COMPETENCIES	
	70	Developing RESTful Applications	<u>Link</u>
	71	MySQL Query Development	<u>Link</u>
	72	Using SQL in Databases	<u>Link</u>
	73	Concurrency and Channels	<u>Link</u>
	74	System and I/O	<u>Link</u>
	75	Standard Library	<u>Link</u>
	76	Web and Networking	<u>Link</u>
	77	Build, Ship and Share	<u>Link</u>
GOLANG GROUP B V1.3	78	Documenting and Testing	<u>Link</u>
	79	Conventions and Common Mistakes	<u>Link</u>
	80	Securing Web APIs	<u>Link</u>
	81	Testing Web APIs	<u>Link</u>
	82	Docker	<u>Link</u>
	83	ACID and BASE	<u>Link</u>
	84	Cocoa Touch Foundations	<u>Link</u>
	85	View Controllers and Gesture Handling	<u>Link</u>
	86	Using Interface Builder	<u>Link</u>
	87	UIView Subclasses	<u>Link</u>
	88	Data Access and Persistence	<u>Link</u>
	89	Swift Fundamentals	<u>Link</u>
IOS GROUP A (V2.0)	90	Syntax and Operators	<u>Link</u>
	91	Literals and Data Types	<u>Link</u>
	92	Standard Object Types	<u>Link</u>
	93	Functions and Methods	<u>Link</u>
	94	Classes and Structures	<u>Link</u>
	95	Control Flow and Iteration	<u>Link</u>
	96	Object-Oriented Programming	<u>Link</u>
	97	Local and Remote Notifications	<u>Link</u>
	98	Core Location and Core Motion	<u>Link</u>
	99	Debugging and Performance Optimization	<u>Link</u>
	100	Standard Library	<u>Link</u>
IOS GROUP B (V2.0)	101	Object-Oriented Programming	<u>Link</u>

COMPETENCIES	STT	SUB-COMPETENCIES	
	102	Foundation Library	<u>Link</u>
	103	Error Handling	<u>Link</u>
	104	Concurrent Programming	<u>Link</u>
	105	Memory Management	<u>Link</u>
	106	Declarations	Link
	107	Java Program Construction	<u>Link</u>
	108	Object Orientation in Java	<u>Link</u>
	109	Flow Control	<u>Link</u>
	110	Access Modifiers	<u>Link</u>
JAVA GROUP A (V2.2)	111	Strings, Formatting and Parsing	<u>Link</u>
JAVA GROOF A (VZ.Z)	112	Exception Handling	<u>Link</u>
	113	Git	<u>Link</u>
	114	Classes and Objects	<u>Link</u>
	115	Class Structures	<u>Link</u>
	116	Developing RESTful Applications	<u>Link</u>
	117	MySQL Query Development	<u>Link</u>
	118	REST Web Services	<u>Link</u>
	119	Java I/O	<u>Link</u>
	120	Compilation and Deployment	<u>Link</u>
	121	Assignment	<u>Link</u>
	122	Interfaces	<u>Link</u>
	123	Internationalization	<u>Link</u>
	124	Java Streams	<u>Link</u>
	125	Spring MVC Framework	<u>Link</u>
JAVA GROUP B (V2.0)	126	Hibernate: Annotation-Based Configuration	<u>Link</u>
	127	Docker	<u>Link</u>
	128	Encapsulation	<u>Link</u>
	129	Associations	<u>Link</u>
	130	ACID and BASE	<u>Link</u>
	131	Database Model Concepts	Link