

**BASIS-SEIP Tranche - 3**  
**Lesson Plan**

**Course Name: Mobile Application Development**

**Training Start Date: 22 September 2022**

**Training End Date:**

Class No.	Code	Units Of Competency	Elements	Elements Breakdown
Day 1			Orientation	Orientation
Day 2			Describe Basic concepts of Dart Fundamental	1.1 Variable 1.2 Data Type 1.3 Flutter Introduction 1.4 Flutter Setup
Day 3			Dart Control Statement, Flutter Setup	2.1 Const 2.2 Final 2.3 If Else 2.4 Switch Case 2.5 Create new project 2.6 Scaffold Widget

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				2.7 App Bar 2.8 Statefull and Stateless
Day 4			Dart List, Map and Project Create	3.1. Dart List 3.2 Container Widget 3.3 Center Widget 3.4 Padding Widget 3.5 Margin Widget
Day 5	SEIP-ICT-MAD-01-S		Dart Loop and Flutter Container	4.1 Dart For Loop 4.2 Dart For In Loop 4.3 Dart While Loop 4.4 Container 4.5 Card 4.6 Sized Box 4.7 Row and Columns
Day 6			Dart Functions and Widget	5.1 Dart Functions, Types of functions in dart 5.2 Material App 5.3 List View,List Tile

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Day 7			Dart Functions and Flutter Widgets	6.1 Required and Optional Function 6.2 Drop down 6.3 Circle Avatar, ClipRRect .
Day 8			Dart Class and Flutter Expanded Widget	7.1 Class 7.2 Object 7.3 Expanded Widget 7.4 All Button, Splash Screen 7.5 Deprecated Button Name and New Button 7.6 Extra Advantage of Each Button.
Day 9			Constructor , Instance and Widget	8.1 Dart Instance 8.2 Constructor 8.3 Default Constructor 8.4 Parameterized Constructor

Class No.	Code	Units Of Competency	Elements	Elements Breakdown
				8.5 Card Widget 8.6 Elevation of Card 8.7 How can Create Visiting Card Use of Card Widget 8.8 Ink Well, 8.9 Gesture detector
Day 10			Inheritance Abstraction ,Map,Switch Buttoon	9.1 Inheritance 9.2 Use of Inheritance 9.3Single,Multilevel,M ultiple ,Hybrid Inheritance 9.4 Advantage and Uses of Inheritance. 9.5 Abstraction 9.6 Role of Abstraction in OOP 9.7 Methods of Abstract Class 9.8 Dart Map 9.9 Dart Map Key and Value 9.10 Flutter Switch Button 9.11 Properties of Switch Button

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Day 11			Method ,Constructor ,Overriding, Image, Checkbox	10.1 Dart Method Overriding 10.2 Real Example Method Overriding 10.3 Dart Constructor Overriding 10.4 Getter and Setter 10.5 How can Get Data and Set Data with Getter and Setter 10.6 Single Child Scroll View 10.7 When Use Single Child Scroll View and When not Use 10.8 Image Widget, Checkbox
Day 12			Exception,Bottom Nav,Sliver App bar, Responsive UI	11.1 Exception Handling 11.2 Bottom Navigation 11.3 Sliver App Bar, 11.4 Media Query and responsive UI.
Day 13			Drawer,DateTime	12.1 Drawer , 12.2 Wrap 12.3 Date Time Picker 12.4 Divider

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				12.5 Dismissable
Day 14			Material Route,Dart Constructor	13.1 Material Route, Constructor, Data passing with Constructor 13.2 Visibility
Day 15			Text Field,Font,Transform	14.1 Text Field 14.2 Custom Font 14.3 Google Font 14.4 Transform 14.5 Snackbar
Day 16			Assessment	
Day 17			Flutter Future Builder, Stateful , Stateless setState	16.1 Stateful and Stateless 16.2 Difference between Stateful and Stateless 16.3 Role of Stateful and Stateless  16.4 What is set State 16.5 Image Picker,

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				16.6 Take Image From Gallery and Camera,  16.7 Future Builder
Day 18			Flutter Stack Widget, Position, Aysnc	17.1 Flutter Stack 17.2 Properties of Stack  17.3 Uses of Stack 17.4 Indexed Stack Widget 17.5 Flutter Position Widget 17.6 Different Position of Position Widget 17.7 Async and await 17.8 Image Picker, Future Builder
Day 19			Model Class,Listview Builder	18.1 Model Class 18.2 ListView.Builder 18.3 GridView.Builder 18.4 GridView.Count 18.5 ListView.Count
Day 20			Tab bar,Page View,Sharedprefere nced	19.1 Tab bar

Class No.	Code	Units Of Competency	Elements	Elements Breakdown
				19.2 Page View, PageView.builder 19.3 Hero Animation 19.4 Shared preferred
Day 21			Github, Alert Dialog, Bottom Sheet Widget, http package and url launcher	20.1 Git hub 20.2 Git hub Account Open 20.3 Advantage of Git Hub 20.4 Data Push in Git hub in Details 20.5 Alert Dialog 20.6 Bottom Sheet 20.7 http package and url launcher
Day 22			BMI Calculator	21.1 BMI Calculator with Provider
Day 23			UI Design	22.1 UI Design
Day 24				23.1 UI Design
Day 25				24.1 UI Design



Class No.	Code	Units Of Competency	Elements	Elements Breakdown
Day 26			Figma to UI Design	25.1 Figma UI Design
Day 27			Figma to UI Design	26.1 Figma UI Design
Day 28			Figma to UI Design	27.1 Figma UI Design
Day 29			Database	28.1 Database Concept 28.2 Mysql Database Create 28.3 Mysql Table Create,Rename,Alter 28.4Mysql Insert Query 28.5 Mysql Update Query 28.6 Mysql Delete Query 28.7 Mysql Delete Query 28.8 Mysql Select Query

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				<p>From Single and Multiple Tables.</p> <p>28.9 Mysql Join,Where,Group by,Orderby etc.</p> <p>28.10 Mysql Some Functions.</p>
Day 30				<p>29.1 Hive Database</p> <p>29.2 Data Insert From Flutter UI to Hive DB</p> <p>29.3 Data Update From Flutter UI to Hive DB</p> <p>29.4 Data Delete From Flutter UI to Hive DB</p> <p>29.5 Data Delete From Flutter UI to Hive DB</p> <p>29.6 Simple Project with Hive DB</p>

Class No.	Code	Units Of Competency	Elements	Elements Breakdown
Day 31				30.1 Sqlite Database 30.2 Data Insert From Flutter UI to Sqlite 30.3 Data Update From Flutter UI to Sqlite 30.4 Data Delete From Flutter UI to Sqlite 30.5 Simple Project with to Sqlite
Day 32			Assessment	Assessment
Day 33			WASDA	32.1 WASDA
Day 34				33.1 WASDA
Day 35				34.1 WASDA
Day 36				35.1 WASDA
Day 37				36.1 WASDA
Day 38			Google Map	37.1 Uses of Google Map

Class No.	Code	Units Of Competency	Elements	Elements Breakdown
				37.2 Google Map API 37.3 Get Current location 37.4 Google Places, Latitude, Longitude .
Day 39			<b>Firebase</b>	38.1 Introduction and Setup details Firebase 38.2 Firebase Stream Builder 38.3 Firebase Future Builder
Day 40			<b>Authentication</b>	39.1 Firebase Gmail Authentication 39.2 Firebase Google Authentication 39.3 Firebase Phone Authentication
Day 41			<b>Firebase CRUD Blog App</b>	40.1 Data Insert From Flutter UI to Firebase 40.2 Data Update From Flutter UI to Firebase 40.3 Data Delete From Flutter UI to Firebase 40.4 Data Display From Flutter UI to Firebase

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Day 42			Blog App	41.1 Project 1 with Firebase
Day 43			Ecommerce App	42.1 Project 1 with Firebase
Day 44			Ecommerce App	43.1 Project 1 with Firebase
Day 45			Ecommerce App	44.1 Project 1 with Firebase
Day 46			http package json, Weather App	45.1 http package/Dio, Json Parsing. 45.2 All http status code. 45.3 Details about Rest-API 45.4 Starting Weather App.
Day 47			Weather App	46.1 Fetch Weather Data from API. 46.2 Get Current location Weather Data. 46.3 Make Responsive Weather App UI.
Day 48			Fitness App	47.1 Fetch Data from API and Show Data. 47.2 Show Fitness animation and details page

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Day 49			Fitness App	48.1 play audio. 48.2 State- Management(Provider )  48.3 Finishing the app
Day 50			E-Commerce App	49.1 Project 4 E- Commerce App using Rest-API(Login , Registration)  49.2 View All Orders.
Day 51			Assessment	50.1 Assessment
Day 52			E-Commerce App	51.1 Project 4 (Display Home Page , Category Page, Product Page data),  52.2 Display Cart Options  52.3 Remove from Cart.
Day 53			E-Commerce App	52.1 Project 4 with API (Edit+Update+Delete for Categories , Products pages )  52.2 State Management.

Class No.	Code	Units Of Competency	Elements	Elements Breakdown
Day 54			API Creation	53.1 Student Project and Prove solving
Day 55				54.1 Student Project and Prove solving
Day 56			Problem Solve	55.1 Student Project and Prove solving
Day 57				56. Student Project and Prove solving
Day 58			App Publishing	57.1 Build Debug and App Publish
Day 59			Job and Freelancing	58.1 Job and Freelancing Marketplace
Day 60			Project Submit	59.1 Project Submit