

**MASTER OF COMPUTER APPLICATION****Semester:II**

Subject Code	Subject Title	Teaching Scheme					
		(Hours/Week)		Credits	Examination Marks		Total Marks
		Theory	Tutorial		Internal	External	
2050302209	Application Development Using flutter	3	0	3	40	60	100

Duration of Exam: 2:30 Hours**Objective of the course:**

- To enable the students for developing simple mobile applications that can run on Android, IOS and Web.
- To learn the fundamentals of Flutter platform.
- To enable the students to write cross-platform applications.

Upon completion of the course, the student shall be able:

Sr. No.	CO statement	Marks % weightage
CO-1	After studying this course, students will be able to Install and use flutter.	15
CO-2	After studying this course, students will be able to use DART language.	20
CO-3	After studying this course, students will be able to build a cross-platform APP.	20
CO-4	After studying this course, students will be able to deploy application with single codebase.	20
CO-5	Use Flutter's tools to enhance your development process.	25

**Detail Content:**

Sr. NO.	Topic	Total Hrs.
1	Introduction Introduction to Flutter, Installation, Flutter First Application, Flutter Architecture ,Flutter Vs React native.	10
2	Data Programming IntroductionData types, Variable and Functions, Operators ,Decision making and loops,Comments, Continue and break, Final and const Keyword	15
3	The basics of Flutter Hello world flutter app, Widgets,Column,Row,Container,Image,Icon,Buttons,Text,etc	12
4	Flutter Routing Navigation & Routing,Flutter Packages,Flutter Google maps Working with SQLite Database Introducing ANDROID databse,Content values and cursors Working with SQLite databases, Creating content provider	10
5	Publishing and Exporting app and Advanced feature Working with location and maps, Telephony and SMSVideo and using camera,Publishingyour Application.	10

Textbooks:

A tour of the Dart language (HYPERLINK "<https://dart.dev/guides/language/language-tour>"<https://dart.dev/guides/language/language-tour>)

Flutter in Action, By Eric Windmill, 2020 (Text Book)

Beginning App Development with Flutter: Create Cross-Platform Mobile Apps, By Rap Payne, 2019

Flutter Succinctly By Ed Freitas, 2019

Flutter Docs (<https://flutter.dev/docs>)
