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Academic Year 2023 - 2024 (Even Sem)

Course name: - Flutter App Development

Duration: - Throughout the semester **Venue:** - VIVA Institute of Technology

Co-ordinator: - Hima Kantharia

Enrolled students: - 35

Course Objective:-

1. Learn about the features and installation of Flutter

2. Learn about the basic programming constructs of Dart

3. Develop simple mobile applications in Flutter using Dart language

4. Develop mobile applications using database Connections

Course Outcomes: -

After successful completion of the course, the students are able to

- 1. Installation of Flutter in Android Studio.
- 2. Build a simple Flutter application using simple widgets and layouts.
- 3. Build Animation on Flutter.
- 4. Develop Flutter applications using Dart packages .
- 5. Construct Flutter application using database.

Course Content:

UNITS	TOPICS AND SUB-TOPICS
UNIT I: Introduction to Flutter	Features of Flutter- Advantages of Flutter- Disadvantages of Flutter. Flutter InstallationInstallation in Windows- Installation in Mac OS- Creating Simple Application in Android Studio - Architecture of Flutter Applications
UNIT II: Flutter Basics	Widgets- Gestures- Concept of State- Layers- Introduction to Dart Programming- Variables and Data types- Decision Making and Loops. Functions- Object Oriented Programming. Introduction to Widgets- Widget Build Visualization
UNIT III: Introduction to Layouts	Type of Layout Widgets- Single Child Widgets- Multiple Child Widgets- Advanced Layout Application-Introduction to Gestures- Statement Management in Flutter. Ephemeral State Management-Application State - scoped model-Navigation and Routing.
UNIT IV: Animation on Flutter	Introduction to Animation Based Classes- Work flow of the Flutter Animation- Working Application- Android Specific



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Report:

The Value added course on Flutter App Development was conducted by Minta Kambaria. In order to provide basic knowledge of Android App Development to students of second year and third year. This course was conducted throughout the even semicore during the free session in students. Students however app development with handout. Also a 2 day workshop was amaged by industry expect Mr. Pradement Adite. Students got develop how knowledge in this morkshop. Total 30 students joined this course and successfully completed it.

CO-PO Mapping: -

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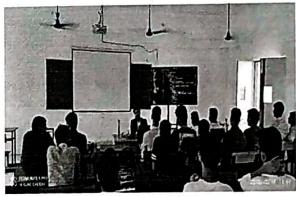
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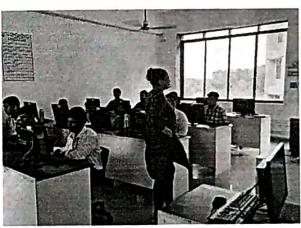
CO PO Justification: -

COs	POs	Justification
CO1	PO1	Moderately mapped as the students will be able to install flutter application
CO2	PO5	Strongly mapped as the students will be able to identify the tools and techniques required to build a flutter app.
CO3	PO5	Moderately mapped as the students will be able to identify tools and techniques to build animation
CO4	PO3	Slightly mapped as the students will be able to find the solutions to problems stated.
CO5	PO5	Moderately mapped as the students will be able to find tools for the system to be developed.









Janhavi Sangoi Incharge HOD, Computer Engg.

QR Code for Certificates

