MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)

(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)

Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act, 1956

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2250585 SKILL DEVELOPMENT COURSE (UI-FLUTTER) LAB

L/T/P/C 0/0/2/1

COURSE OUTCOMES - CO'S

B. Tech.III Year-II Sem

- Implements Flutter Widgets and Layouts.
- Create Responsive UI Design and with Navigation in Flutter
- Create custom widgets for specific UI elements and also Apply styling using themes and custom styles.
- Design a form with various input fields, along with validation and error handling
- Fetch data and write code for unit Test for UI components and also animation

LIST OF EXPERIMENTS

- 1. a) Install Flutter and Dart SDK.
- b) Write a simple Dart program to understand the language basics.
- 2. a) Explore various Flutter widgets (Text, Image, Container, etc.).
- b) Implement different layout structures using Row, Column, and Stack widgets.
- 3. a) Design a responsive UI that adapts to different screen sizes.
- b) Implement media queries and breakpoints for responsiveness.
- 4. a) Set up navigation between different screens using Navigator.
- b) Implement navigation with named routes.
- 5. a) Learn about stateful and stateless widgets.
- b) Implement state management using set State and Provider.



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- 6. a) Create custom widgets for specific UI elements.
- b) Apply styling using themes and custom styles.
- 7. a) Design a form with various input fields.
- b) Implement form validation and error handling.
- 8. a) Add animations to UI elements using Flutter's animation framework.
- b) Experiment with different types of animations (fade, slide, etc.).
- 9. a) Fetch data from a REST API.
- b) Display the fetched data in a meaningful way in the UI.
- 10. a) Write unit tests for UI components.
- b) Use Flutter's debugging tools to identify and fix issues