

SWARNANDHRA

COLLEGE OF ENGINEERING & TECHNOLOGY

(AUTONOMOUS)

Accredited by National Board of Accreditation, AICTE, New Delhi, Accredited by NAAC with "A" Grade – 3.32 CGPA, Recognized under 2(f) & 12(B) of UGC Act 1956
Approved by AICTE, New Delhi, Permanent Affiliation to JNTUK, Kakinada
Seetharampuram, W.G.DT., Narsapur-534280, (Andhra Pradesh)

DEPARTMENT OF INFORMATION TECHNOLOGY

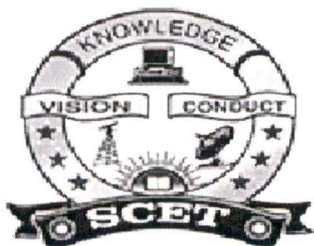
TEACHING PLAN

Course Code	Course Title	Semester	Branch	Contact Periods /Week	Academic Year	Date of commencement of Semester
23CD5Z01	User Interface Design using Flutter	V	DS-A	3 Periods	2025-26	09/07/25

COURSE OUTCOMES

1	Demonstrate the ability to design and implement user interfaces using basic Flutter widgets, layouts, and stateful interactions.
2	Apply responsive design principles and navigation techniques to build adaptive mobile applications that cater to diverse devices and screen sizes
3	Analyze the structure of UI components by creating custom widgets, applying themes, and maintaining consistent visual styling across an application.
4	Evaluate form inputs, asynchronous data interactions, animations, and testing strategies to enhance UI performance, usability, and reliability.

Experiment Number	Experiment	Contact Hours
1	a) Install Flutter and Dart SDK. b) Write a simple Dart program to understand the language basics.	6
2	a) Explore various Flutter widgets (Text, Image, Container, etc.). b) Implement different layout structures using Row, Column, and Stack widgets.	6
3	a) Design a responsive UI that adapts to different screen sizes. b) Implement media queries and breakpoints for responsiveness	3
4	a) Set up navigation between different screens using Navigator. b) Implement navigation with named routes.	3
5	a) Learn about stateful and stateless widgets. b) Implement state management using set State and Provider.	6



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6	a) Create custom widgets for specific UI elements. b) Apply styling using themes and custom styles.	6
7	a) Design a form with various input fields. b) Implement form validation and error handling.	6
CUMULATIVE PROPOSED PERIODS		36

	Name	Signature with Date
i. Faculty	Mr.K.Raja	K. Raja
ii. Module Coordinator	Mr.K.Raja	K. Raja
iii. Programme Coordinator	Dr.RVVSV Prasad	Dr.RVVSV Prasad

Principal