Department of Computer Science and Engineering

Introduction to Faculty Readiness Program (FRP)

The **Faculty Readiness Program (FRP)** is a distinctive academic initiative introduced during the **Academic Year 2026–27** under the visionary leadership of **Dr. A. Mohan, Director**, with the primary objective of enhancing faculty preparedness prior to the commencement of class work. The program aims to equip faculty members with contemporary technological knowledge, practical skills, innovative teaching methodologies, and industry-relevant competencies required for effective curriculum delivery and student mentoring.

The FRP serves as a structured platform for faculty members to update their domain expertise, familiarize themselves with emerging technologies, and strengthen their pedagogical practices through focused training sessions, hands-on laboratory activities, continuous assessments, and project-based learning. By promoting experiential learning and outcome-oriented education, the program contributes significantly to academic excellence and institutional quality enhancement.

This initiative reflects the institution's commitment to continuous professional development, Outcome-Based Education (OBE), industry-academia alignment, and the cultivation of a dynamic learning environment that benefits both faculty and students.

Significance of FRP

- Introduced as a **pre-semester faculty development initiative** to ensure faculty preparedness before the start of academic activities.
- Conceptualized and implemented under the guidance of **Dr. A. Mohan, Director**, to strengthen teaching effectiveness and academic quality.
- Enhances faculty readiness for delivering curriculum content aligned with current industry requirements and emerging technologies.
- Promotes effective curriculum delivery through innovative and technology-enabled teaching-learning practices.
- Encourages the adoption of modern tools, platforms, and industry-oriented methodologies in classroom and laboratory instruction.
- Strengthens faculty capabilities in student mentoring, project supervision, innovation activities, and research initiatives.
- Facilitates experiential and project-based learning approaches that improve student engagement and learning outcomes.
- Supports the institution's continuous quality improvement efforts and contributes to the fulfillment of **NBA, NAAC, and OBE requirements**.
- Establishes a culture of lifelong learning, professional growth, and academic excellence among faculty members.

Theme: "Empowering Faculty for Excellence in Teaching, Innovation, and Emerging Technologies"

Event Poster

Event Report

Date: 10-06-2026

Academic Year	2026–2027
Name of the Program	Faculty Readiness Program (FRP) on Flutter / UI Design
Event Type	Faculty Readiness Program (FRP)
In association with	NRCM CSI Student Branch and the Institution's Innovation Council (IIC)
Dates	4 Days Intensive Hands-on Training Program 03rd June 2026 – 06th June 2026
Time	09:30 AM to 4:00 PM
Venue	**IT Park 302**, Narsimha Reddy Engineering College (Autonomous)
Chief Guests /Dignitaries Present	Shri Jakkula Narsimha Reddy, Chairman Shri Trishul Reddy, Secretary Shri Trilok Reddy, Treasurer Dr. A. Mohan, Director Dr. R. Lokanadham, Principal And All the Deans of the Departments
Resource Person:	**Dr. P Ramesh Babu,** Professor & Head Department of Computer Science and Engineering
Event Coordinator	**Dr. N. Rajashekar** Professor, Dean of External Department of Computer Science and Engineering
Number of Participants	12

Brief Report

Inauguration

The workshop began with a formal inauguration in the presence of the esteemed dignitaries.

- **Shri Jakkula Narsimha Reddy, Chairman**, welcomed the gathering and emphasized the importance of adopting emerging technologies in academia.
- **Shri Trishull Reddy, Secretary**, and **Shri Trilok Reddy, Treasurer**, conveyed their best wishes to the participants and appreciated the department's initiative in organizing a Faculty Readiness Program focused on industry-relevant technologies.
- **Dr. A. Mohan, Director**, and **Dr. R. Lokanadham, Principal**, addressed the participants and stressed the significance of faculty development programs in enhancing teaching effectiveness, innovation, and student mentoring capabilities. They encouraged faculty members to leverage the knowledge gained through the program to strengthen practical learning and project-based education.

- **Dr. P. Ramesh Babu, Professor & Head, Department of CSE and Resource Person**, highlighted the objectives of the program and discussed the importance of Flutter as a modern cross-platform mobile application development framework. He emphasized the role of Flutter in developing responsive, scalable, and industry-ready applications.
- **Dr. N. Rajashekar, Program Coordinator**, introduced the theme, objectives, expected outcomes, and day-wise schedule of the Faculty Readiness Program. He explained how the training was aligned with the **NR23 UI Design – Flutter Laboratory syllabus** and designed to equip faculty members with practical skills in Flutter development, Firebase integration, responsive UI design, and project-based learning methodologies.

The inaugural session concluded on a positive note, reaffirming the institution's commitment to fostering technical excellence, innovation, and industry readiness among faculty members through continuous professional development initiatives and emerging technology training programs.

Training Objective:

The primary objectives of the Faculty Readiness Program were:

- To introduce faculty members to Flutter Framework and Dart Programming.
- To provide hands-on experience in developing cross-platform mobile applications.
- To enable faculty members to design attractive and responsive user interfaces.
- To develop real-time applications using Firebase services.
- To enhance project-based learning methodologies.
- To strengthen faculty competency in mentoring student projects.
- To bridge the gap between academic curriculum and industry requirements.

Training Schedule:

Day 1 – Introduction to Flutter and Dart

- Introduction to Mobile Application Development
- Overview of Flutter Framework
- Advantages of Cross-Platform Development
- Dart Programming Fundamentals
- Flutter Architecture
- Flutter SDK Installation and Configuration
- Developing the First Flutter Application

Practical Session

- Flutter Environment Setup
- Emulator Configuration
- Creating and Running Flutter Projects
- Understanding Project Structure

Day 2 – Flutter Widgets and UI Design

- Stateless and Stateful Widgets
- Material Design Components
- Layout Widgets
- Forms and Input Controls
- Responsive UI Design
- Themes and Styling
- Custom Widgets

Practical Session

- Designing Login Screens
- Creating Registration Forms
- Developing Responsive Interfaces
- Implementing Custom Themes

Day 3 – Navigation and State Management

- Navigation and Routing
- Passing Data Between Screens
- State Management Concepts
- Provider Package
- Shared Preferences
- Bottom Navigation Bar
- Drawer Navigation

Practical Session

- Multi-Screen Application Development
- Student Dashboard Application
- Navigation Drawer Implementation
- State Management Demonstration

Day 4 – Firebase Integration and Mini Project Development

- Introduction to Firebase
- Firebase Authentication
- Firestore Database
- Firebase Storage
- Real-Time Database Concepts
- REST API Integration
- Application Testing and Deployment

Practical Session

- Authentication App Development
- Firebase Connectivity
- Real-Time Notes Application
- Image Upload Functionality
- Mini Project Development and Presentation

Tools and Technologies Covered

The program provided practical exposure to:

- Flutter Framework
- Dart Programming Language
- Firebase Authentication
- Cloud Firestore Database
- Firebase Storage
- REST APIs
- Shared Preferences
- Android Studio
- Visual Studio Code
- Git and GitHub
- Android Emulator

Assessment and Project-Based Learning

To ensure effective learning and active participation, **daily assessment tests** were conducted at the end of each day based on the topics covered during the respective sessions. The assessments included multiple-choice questions, practical exercises, coding tasks, and concept-based evaluations related to Flutter development, UI design, navigation, state management, Firebase integration, and API handling.

The daily assessments helped in:

- Evaluating participants' understanding of the concepts covered.
- Reinforcing key technical topics through practice.
- Identifying areas requiring additional clarification and support.
- Encouraging continuous learning and engagement throughout the program.

As a culmination of the Faculty Readiness Program, **each participant was assigned a mini-project on the final day** to independently design and develop a Flutter-based mobile application. Participants applied the knowledge gained during the training to develop functional applications incorporating responsive user interfaces, navigation, state management, Firebase services, and other Flutter features.

The project development activity enabled participants to:

- Gain hands-on experience in end-to-end mobile application development.
- Apply theoretical concepts to real-world scenarios.
- Enhance problem-solving and design-thinking skills.
- Demonstrate proficiency in Flutter UI Design and application deployment concepts.

The projects were reviewed and evaluated based on functionality, UI design, code quality, implementation of concepts learned, and overall application performance. This project-based approach significantly contributed to strengthening faculty competency in mobile application development and project mentoring.

Outcomes:

At the end of the Faculty Readiness Program, participants were able to:

- Develop modern cross-platform mobile applications.
- Design responsive and attractive user interfaces.
- Implement navigation and state management techniques.
- Integrate Firebase services and REST APIs.
- Develop real-time cloud-connected applications.
- Guide students in mobile application development projects.
- Conduct industry-oriented laboratory sessions.
- Support innovation, hackathons, and project-based learning activities.
- Effectively deliver the NR23 Flutter UI Design Laboratory course.

PO Highlights Mapped

The Faculty Readiness Program contributed significantly towards achieving:

- **PO1:** Engineering Knowledge
- **PO2:** Problem Analysis
- **PO3:** Design and Development of Solutions
- **PO4:** Investigation of Complex Problems
- **PO5:** Modern Tool Usage
- **PO9:** Individual and Team Work
- **PO10:** Communication Skills
- **PO12:** Life-long Learning

Valedictory Session

The **Faculty Readiness Program (FRP) on Flutter UI Design** concluded with a valedictory session, marking the successful completion of four days of intensive learning, hands-on practice, assessments, and project development activities.

- **Dr. R. Lokanadham, Principal**, appreciated the enthusiastic participation and commitment demonstrated by the faculty members throughout the program. He emphasized the importance of continuous professional development, adoption of emerging technologies, and the integration of industry-oriented skills into the teaching-learning process.
- **Dr. A. Mohan, Director**, commended the Department of Computer Science and Engineering for organizing a highly relevant and skill-enhancing Faculty Readiness Program. He highlighted the significance of hands-on training in strengthening faculty competencies and improving the quality of technical education delivered to students.
- **Dr. P. Ramesh Babu, Professor & Head, CSE and Resource Person**, congratulated the participants for successfully completing the training program. He appreciated their active involvement in daily assessments, practical sessions, and project development activities. He encouraged faculty members to apply the acquired knowledge in classroom teaching, laboratory sessions, student project mentoring, and innovation initiatives.

- **Dr. N. Rajashekar, Program Coordinator**, presented a brief summary of the program activities, highlighting the successful completion of daily assessment tests and the development of individual Flutter-based applications by the participants as part of the final evaluation.

As part of the program assessment, participants showcased their Flutter applications developed during the final-day project activity. The projects demonstrated the effective implementation of Flutter UI components, navigation, state management, Firebase integration, and responsive design principles learned during the training.

Certificates of Participation were distributed to all faculty members who successfully completed the Faculty Readiness Program and actively participated in the assessments and project development activities.

Participants shared their feedback and expressed appreciation for the practical, industry-oriented nature of the training. They highlighted that the program enhanced their confidence in developing mobile applications and strengthened their ability to mentor students in Flutter-based projects.

The session concluded with a formal Vote of Thanks delivered by the Program Coordinator, expressing gratitude to the Management, Director, Principal, Resource Person, faculty participants, and organizing team for their support and contribution toward the successful conduct of the Faculty Readiness Program.

The valedictory session concluded on a positive note, reaffirming the department's commitment to continuous faculty development, innovation-driven teaching practices, and industry-aligned technical education.

Conclusion:

The **Faculty Readiness Program on Flutter UI Design** was successfully conducted and provided faculty members with comprehensive knowledge and practical exposure to modern mobile application development technologies. Through hands-on training, project development activities, Firebase integration, and responsive UI design practices, the program enhanced faculty readiness for emerging technologies and strengthened their ability to deliver industry-oriented education.

The Department of Computer Science and Engineering expresses its sincere gratitude to **Dr. P. Ramesh Babu, Professor & Head, CSE**, for serving as the Resource Person and to **Dr. N. Rajashekar**, Program Coordinator, for successfully organizing the program. The initiative significantly contributed to faculty development, continuous improvement, and focused quality enhancement practices.

Coordinator **Hod-CSE**

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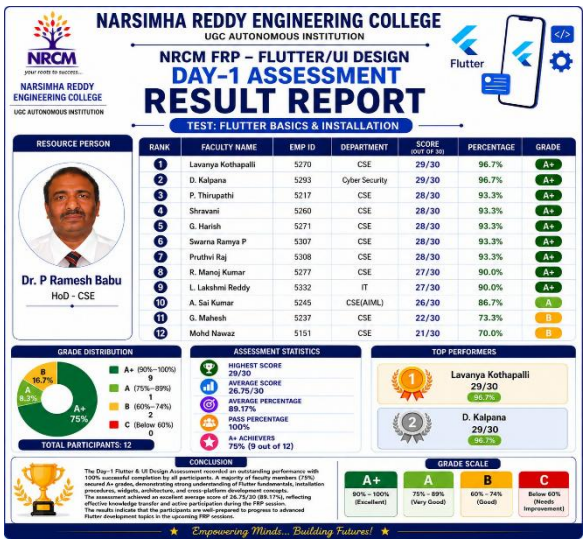
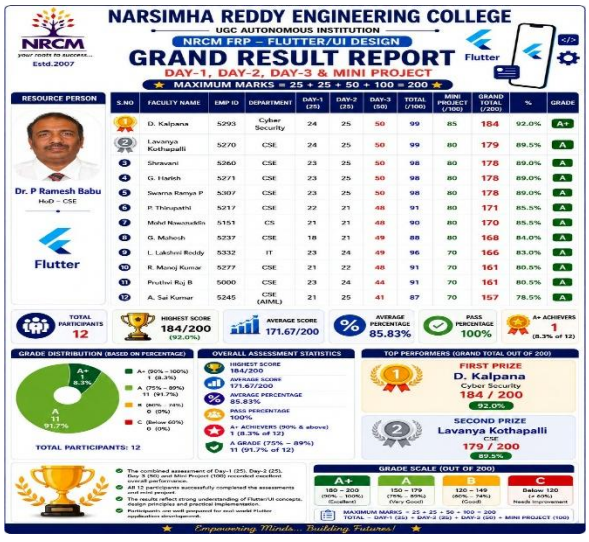
Glimpses of the Workshop on

"Faculty Readiness Program (FRP) on Flutter / UI Design"





EVALUATION PROFORMA

Four-Day Faculty Readiness Program (FRP) on

"Flutter / UI Design"

Dates: 03rd June 2026 – 06th June 2026.

Venue: Narsimha Reddy Engineering College (Autonomous), Hyderabad

Dear Participant,

Thank you for participating in the Faculty Readiness Program (FRP). Your feedback is valuable in helping us improve future training programs. Kindly provide your honest responses.

Section A: Participant Details

Name: _____
Designation: _____
Department: _____
Email ID: _____
Date: _____
Program Evaluation

Rate the following parameters on a scale of 1 to 5

(1- Poor, 2- Fair, 3- Good, 4- Very Good, 5- Excellent)

S.No	Parameter	Rating (1-5)
1	Relevance of the FRP content to your teaching requirements	
2	Achievement of program objectives	
3	Quality of course materials and resources	
4	Effectiveness of the Resource Person	
5	Clarity of explanations and demonstrations	
6	Hands-on practical sessions	
7	Coverage of Flutter and Dart concepts	
8	Coverage of Firebase Integration concepts	
9	Usefulness of project-based learning activities	
10	Daily assessment activities	
11	Overall organization and coordination of the program	
12	Overall satisfaction with the FRP	

Learning Outcomes

Please indicate your level of agreement.

(Strongly Agree / Agree / Neutral / Disagree / Strongly Disagree)

1. The FRP enhanced my understanding of Flutter UI Design.

☐ Strongly Agree ☐ Agree ☐ Neutral ☐ Disagree ☐ Strongly Disagree

2. I gained practical knowledge in mobile application development.

☐ Strongly Agree ☐ Agree ☐ Neutral ☐ Disagree ☐ Strongly Disagree

3. The program improved my ability to mentor student projects.

☐ Strongly Agree ☐ Agree ☐ Neutral ☐ Disagree ☐ Strongly Disagree

4. The hands-on sessions helped me understand the concepts effectively.

☐ Strongly Agree ☐ Agree ☐ Neutral ☐ Disagree ☐ Strongly Disagree

5. I will be able to effectively deliver the Flutter UI Design laboratory course.

☐ Strongly Agree ☐ Agree ☐ Neutral ☐ Disagree ☐ Strongly Disagree

Program Components

Which sessions were most useful to you? (Select all that apply)

☐ Flutter Fundamentals
☐ Dart Programming
☐ UI Design and Widgets
☐ Navigation and State Management
☐ Firebase Integration
☐ API Integration
☐ Project Development
☐ Assessment Activities

How would you rate the overall effectiveness of the program?

☐ Excellent
☐ Very Good
☐ Good
☐ Fair
☐ Poor

Suggestions and Feedback

What aspects of the program did you find most beneficial?

Suggestions for improving future FRPs:

Overall Feedback

Would you recommend similar Faculty Readiness Programs to other faculty members?

☐ Yes
☐ No

Additional Comments:

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your roots to success.
Estd.2007

Sample Certificate


NARSIMHA REDDY ENGINEERING COLLEGE

COURSE CERTIFICATE

Certificate of Appreciation

This certificate is proudly presented to Dr./Mr./Ms.

MOHD NAWAZUDDIN.

has actively participated in and successfully completed the **ONE-WEEK FACULTY READINESS PROGRAM (FRP)** on **FLUTTER** conducted from 1st June 2026 to 6th June 2026, organized by the Department of Computer Science & Engineering, Narsimha Reddy Engineering College (Autonomous).

Dr. P. Ramesh Babu, Course Coordinator | Dr. N. Rajasekhar, Convener | Dr. R. Lokanatham, Principal | Dr. A. Mohan, Director


NARSIMHA REDDY ENGINEERING COLLEGE

COURSE CERTIFICATE

Certificate of Appreciation

This certificate is proudly presented to Dr./Mr./Ms.

G. HARISH

has actively participated in and successfully completed the **ONE-WEEK FACULTY READINESS PROGRAM (FRP)** on **FLUTTER** conducted from 1st June 2026 to 6th June 2026, organized by the Department of Computer Science & Engineering, Narsimha Reddy Engineering College (Autonomous).

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NARSIMHA REDDY ENGINEERING COLLEGE

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PAINDLA THIRUPATHI

has actively participated in and successfully completed the **ONE-WEEK FACULTY READINESS PROGRAM (FRP)** on **FLUTTER** conducted from 1st June 2026 to 6th June 2026, organized by the Department of Computer Science & Engineering, Narsimha Reddy Engineering College (Autonomous).

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COURSE CERTIFICATE

Certificate of Appreciation

This certificate is proudly presented to Dr./Mr./Ms.

RAMGIRI MANOJ KUMAR.

has actively participated in and successfully completed the **ONE-WEEK FACULTY READINESS PROGRAM (FRP)** on **FLUTTER** conducted from 1st June 2026 to 6th June 2026, organized by the Department of Computer Science & Engineering, Narsimha Reddy Engineering College (Autonomous).

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