CARE COLLEGE OF ENGINEERING
(An Autonomous Institution)
Approved AICTE New Delhi | Affiliated to Anna University Chennai
No 27, Thayanur, Tiruchirappalli 620 009

Innovative Student Projects

Department of Computer Science and Engineering

Academic Year 2025–2026

The Department of Computer Science and Engineering continuously promotes **innovation, problem-solving, and industry-oriented learning** among students through faculty-guided project activities. Faculty members actively mentor students in developing innovative solutions that address real-world challenges in areas such as **automation, digital transformation, logistics optimization, healthcare technology, and smart health management**.

As part of this initiative, the following innovative student projects were successfully guided by faculty members during the academic year **2025–2026**.

1. Barcode Generation for Textile Batch Management

Guided by: Ms. S. Nageshwari, Assistant Professor, CSE

Students developed a **barcode generation system** for managing batches of spindles with fabric (Twisted Nylon) delivered to textile industries. The project aimed to improve **inventory tracking, product identification, and operational efficiency** in textile manufacturing environments.

Industry Associated: SRF

Project Duration: 25.06.2025 to 15.07.2025

2. Mobile Application for Digital Manual Data Entry

Guided by: Mr. N. Dharmaraj, Assistant Professor, CSE

This innovative project focused on designing a **mobile application to digitize manual data entry processes**. The system was intended to reduce paperwork, minimize human errors, and enhance the efficiency of organizational data management.

Industry Associated: RANE (RBL)

Project Duration: 25.06.2025 to 15.07.2025

3. Determining the Optimal Container Path Flow

Guided by: Mr. Subaree, Assistant Professor, CSE and Mrs. Divya Dharshini G, Assistant Professor, CSE

Students worked on an **optimization-based logistics project** to determine the most efficient container movement path. The project contributed to improving **transportation planning, reducing delays, and enhancing container flow management** in industrial operations.

Industry Associated: RANE (RBL)

Project Duration: 25.06.2025 to 15.07.2025

4. Advancing Healthcare Safety Through Ambulance Technology Integration

Guided by: Mr. N. Dharmaraj, Assistant Professor, CSE

This student innovation project explored the integration of **advanced digital technologies into ambulance systems** to improve emergency healthcare services. The project focused on **patient safety, real-time communication, and emergency response support** during medical transportation.

Presented at: TNSCST

Date: 28.08.2025

5. Smart Health Management Through WhatsApp – A Scalable Digital Companion for Chronic Care Support

Guided by: Mr. N. Dharmaraj, Assistant Professor, CSE

Students proposed a **WhatsApp-based smart health management system** to support individuals with chronic health conditions. The system was designed to provide **health reminders, communication assistance, and digital patient engagement**, making healthcare support more accessible and user-friendly.

Presented at: TNSCST

Date: 28.08.2025

The above projects demonstrate the departments commitment to **experiential learning, industry collaboration, healthcare innovation, and digital transformation**. Through continuous faculty guidance, students were able to apply theoretical knowledge to practical problems and develop solutions with **social, industrial, and technological impact**.