

# LBS COLLEGE OF ENGINEERING, KASARAGOD

Department of Computer Science and Engineering

Coders LBSCEK

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## CLUB ACTIVITY REPORT

Academic Year 2025–2026

Submitted as per Notice No. C1/Misc/2026, Dated: 13.03.2026

### 1. About the Club

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Coders LBSCEK is the student-led coding club of LBS College of Engineering, Kasaragod. The club was established with the vision of building a strong technical culture among students by providing hands-on exposure to cutting-edge technologies, competitive programming, cybersecurity, and collaborative development. The club actively organises workshops, hackathons, and competitive events to foster innovation and practical skills beyond the classroom curriculum.

### 2. Summary of Activities

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The following table summarises the events conducted by Coders LBSCEK during the academic year 2025–2026:

Event Name	Platform / Collaboration	Date	Participants	Outcome
TinyML Workshop with XIAO Sense	IEDC Summit 2025 / MakerGram & Seeed Studio	22 Dec 2025	50+	Highly Successful
Mini CTF	College Tech Fest (Stall Event)	23 Mar 2026	20+	Successful

### 3. Event 1 — TinyML Workshop with XIAO Sense Hardware

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#### 3.1 Event Overview

**Event Name:** First TinyML Project with XIAO Sense Hardware (Workshop)

**Platform:** IEDC Summit 2025

**Collaboration:** MakerGram & Seeed Studio

**Date:** 22 December 2025

**Venue:** LBS College of Engineering, Kasaragod

**Number of Participants:** More than 50 students

## 3.2 Description

Coders LBSCEK, in collaboration with MakerGram and Seeed Studio, proudly hosted a flagship hands-on workshop titled "First TinyML Project with XIAO Sense Hardware" as part of the prestigious IEDC Summit 2025 held at LBS College of Engineering, Kasaragod. The session was conducted by Mr. Salman Faris, Co-Founder of MakerGram, bringing industry-level expertise directly to the students.

The workshop offered a beginner-friendly yet technically rich introduction to the world of TinyML — the deployment of machine learning models on microcontrollers. Participants were introduced to Seeed Studio's XIAO ESP32-S3 Sense hardware, one of the most capable and compact edge AI platforms available today. The session covered sensor integration, model training fundamentals, and the complete pipeline for deploying lightweight AI on low-power embedded hardware.

What made this event truly exceptional was the level of engagement and enthusiasm shown by every participant. All 50+ attendees actively participated in the hands-on build session, successfully completing their very first TinyML project by the end of the workshop. The energy in the room was electric — students who had never worked with microcontrollers or ML models walked away having built something real and functional.

## 3.3 Key Highlights

- 50+ students participated with exceptional enthusiasm and full hands-on engagement throughout the session
- Every participant successfully built their first TinyML project using the XIAO ESP32-S3 Sense board
- Expert session delivered by Mr. Salman Faris, Co-Founder of MakerGram — a leading embedded AI community
- Conducted in collaboration with Seeed Studio, a globally recognised hardware manufacturer
- Overwhelmingly positive feedback — participants described the workshop as one of the most impactful technical sessions they had attended
- Multiple participants expressed that the skills and knowledge gained would directly benefit their upcoming academic and personal projects
- The event established Coders LBSCEK as a serious organiser of industry-calibre technical events on campus

### 3.4 Event Poster



Official Event Poster

### 3.5 Event Photographs



Workshop in progress — participants working hands-on with XIAO Sense hardware



Group photograph of participants, volunteers and resource person after the workshop

## 4. Event 2 — Mini CTF (Capture The Flag)

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### 4.1 Event Overview

**Event Name:** Mini CTF (Capture The Flag)

**Platform:** College Tech Fest — Stall Event

**Organised by:** Coders LBSCEK

**Date:** 23 March 2026

**Venue:** LBS College of Engineering, Kasaragod

**Number of Participants:** More than 20 students

### 4.2 Description

As part of the College Tech Fest 2026, Coders LBSCEK organised a Mini CTF (Capture The Flag) competition as a stall event — designed to introduce students to the exciting world of cybersecurity and ethical hacking in a fun, approachable, and competitive format.

The event was intentionally designed to be beginner-friendly, ensuring that participants with no prior cybersecurity experience could engage meaningfully while still offering enough depth to challenge those with intermediate skills. Challenges spanned a wide range of fundamental cybersecurity domains including cryptography, web exploitation, steganography, reverse engineering basics, and open-source intelligence (OSINT). Each challenge was carefully crafted to be educational, ensuring participants walked away with genuine knowledge and skills rather than just a score.

The response from students was remarkably positive. Participants remained deeply engrossed throughout the event, with many spending considerable time working through the challenges collaboratively. The competitive atmosphere created a thrilling environment where participants pushed their limits, and the gradual difficulty curve kept everyone engaged from start to finish. Several participants who had never attempted a CTF before expressed excitement and a newfound interest in cybersecurity as a domain.

### 4.3 Key Highlights

- 20+ participants competed with high energy and strong engagement throughout the event
- Challenges covered cryptography, web exploitation, steganography, reverse engineering, and OSINT
- Beginner-friendly design made cybersecurity accessible to students with no prior experience
- Highly competitive atmosphere with participants deeply invested in solving challenges
- Received excellent feedback — participants expressed strong interest in future CTF events
- Successfully introduced a large group of students to cybersecurity concepts in a practical, hands-on setting
- Demonstrated Coders LBSCEK's capability to design, host and manage competitive technical events independently

## 4.4 Event Photographs



*Mini CTF in progress — participants working on challenges during College Tech Fest 2026*

## 5. Conclusion

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Despite operating within the constraints of a lean budget and an entirely student-driven organisational structure, Coders LBSCEK has delivered two high-quality, impactful events during the academic year 2025–2026. Both events drew strong participation, generated genuine enthusiasm, and left measurable positive outcomes among students.

The TinyML Workshop at IEDC Summit 2025 stands as a landmark event — bringing together 50+ students, industry collaborators, and cutting-edge hardware for a hands-on experience that participants will carry forward into their academic and professional careers. The Mini CTF at the College Tech Fest demonstrated the club's growing capability in cybersecurity education and competitive event management.

Coders LBSCEK remains committed to its mission of building a strong, inclusive, and technically competent community of coders at LBS College of Engineering. The club looks forward to continuing its activities, expanding its reach, and further elevating the technical culture of the institution in the coming semesters.

Submitted by,  
**Coders LBSCEK**  
Dept. of CSE  
LBS College of Engineering, Kasaragod  
Date: 24/03/2026