

EduPulse

Jan-Mar 2025

Department's Newsletter



Department of CSE (Artificial Intelligence and Machine Learning)



LAKIREDDY BALI REDDY COLLEGE OF ENGINEERING

(An Autonomous Institution since 2010)

Approved by AICTE, New Delhi and Permanently Affiliated to JNTUK, Kakinada

L.B. Reddy Nagar, Mylavaram, NTR District, Andhra Pradesh - 521230



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Department of CSE (Artificial Intelligence and Machine Learning)

VISION

To pioneer transformative advancements that redefine the boundaries of intelligence, empower individuals and organizations, and inspire positive change in society.

MISSION

- ♦ To cultivate interdisciplinary partnerships and drive impactful research that addresses the world's most pressing challenges.
- ♦ To developing transparent, accountable, and equitable AI solutions that empower individuals and communities.
- ♦ To lead by example and inspire innovation, department champions a culture of continuous learning and experimentation, driving progress and pushing the frontier of possibilities.
- ♦ To create actionable insights, drive informed decision-making, and transform industries and societies for the better.

Event : Hands-On Workshop on Smart Solutions with Machine Learning and IoT

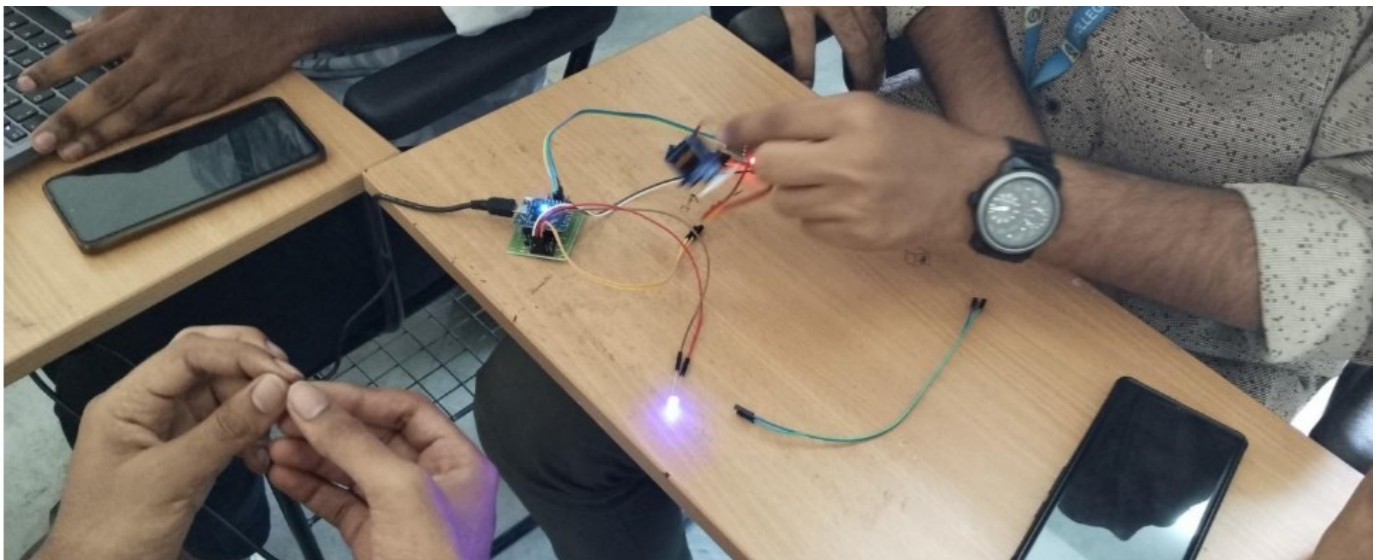
Organised By: **Department of CSE (AI & ML)**

Lakireddy Bali Reddy College of Engineering (Autonomous)

In association with SLABS, Guntur

Dates: 24th February – 3rd March 2025, & 9th March 2025

Venue: ECE Seminar Hall



Resource Person:

**Mr. P. Ashok Chakravarthy,
Founder & CEO, SLABS**

The Department of CSE (AI & ML), in collaboration with SLABS, Guntur, organized a hands-on workshop titled **"Smart Solutions with Machine Learning and IoT"** from 24th February to 3rd March 2025, concluding with a hackathon on 9th March 2025. The event was held at the ECE Seminar Hall and witnessed enthusiastic participation from 141 B.Tech IV Semester students along with 5 faculty members. The workshop was inaugurated by Dr. S. Jayaprada, Head of the Department, and was led by Mr. P. Ashok Chakravarthy, Founder & CEO of SLABS, who shared his industry expertise through interactive lectures and practical sessions.

Throughout the workshop, students gained in-depth exposure to IoT architecture, sensor integration, data preprocessing, and machine learning model development. Hands-on sessions with tools like Raspberry Pi, Arduino, and ultrasonic sensors allowed participants to build real-time smart applications. Topics such as cloud and edge computing, mobile app development, and ML deployment were effectively covered, enabling students to work on mini-projects addressing real-world challenges in sectors like healthcare, agriculture, and smart cities.

The final day featured an intra-departmental hackathon, where students showcased innovative solutions developed during the workshop. This event significantly enhanced the technical capabilities of the participants, encouraging them to pursue research and entrepreneurial opportunities in the AIoT domain. The workshop concluded on a high note with excellent feedback from students, highlighting the event's success in blending academic learning with practical implementation and industry relevance.



Industrial Visit : Two-Day Industrial Visit to MSME Technology Center, Visakhapatnam

Organised By: Department of CSE (AI & ML)

Lakireddy Bali Reddy College of Engineering (Autonomous)

In association with MSME, Vizag

Place of Visit : 21st – 22nd March 2025

Venue: MSME Technology Center, Auto Nagar, Visakhapatnam



Objective of the Visit: The primary objective of this industrial visit was to expose students to cutting-edge industrial technologies and real-time applications in manufacturing, automation, and mechatronics. The visit was designed to bridge the gap between academic concepts and practical industry requirements by offering firsthand exposure to modern tools, industrial workflows, and training opportunities. It also aimed to inspire students to pursue innovation, entrepreneurship, and advanced skill development in the context of India's growing MSME ecosystem.

About MSME Technology Center, Visakhapatnam

The MSME Technology Center, Visakhapatnam, is a premier institution under the Ministry of Micro, Small and Medium Enterprises, Government of India. Established to support industrial growth and empower youth, the center is equipped with state-of-the-art infrastructure including CNC machining units, CAD/CAM labs, 3D printing technologies, and robotics labs. It offers both long-term and short-term training programs, technical consultancy, and prototyping services. The center plays a crucial role in upskilling students and entrepreneurs, fostering innovation, and strengthening the MSME ecosystem through industry-academia collaboration.



Highlights of the Visit

- ◆ Inaugural session by Prof. Dr. K. Murali Krishna on industrial technologies
- ◆ Tour of CNC, CAD/CAM, 3D printing, and cloud-based automation systems
- ◆ Interaction with MSME professionals and technologists
- ◆ Certification and appreciation for student participation
- ◆ Group photo with MSME faculty and dignitaries
- ◆ Positive student feedback emphasizing practical learning and inspiration

The Department of CSE (AI & ML), Lakireddy Bali Reddy College of Engineering, organized a two-day industrial visit to the MSME Technology Center, Visakhapatnam from 21st to 22nd March 2025. A total of 122 students, accompanied by six faculty members, participated in this educational trip. The visit aimed to bridge the gap between academic learning and real-world industrial practices, offering students an opportunity to explore modern manufacturing, automation, and digital technologies firsthand.

The visit commenced with an engaging session by Prof. Dr. K. Murali Krishna, HoD, Mechatronics, who gave an insightful presentation on emerging technologies including AI, Cloud Computing, IoT, and Networking. Students were taken through advanced sections of the facility, witnessing live operations involving CNC machining, 3D printing, precision tooling, and cloud-based services. They also explored various training and skill development programs available at the center, which cater to the evolving needs of the MSME ecosystem.

This industrial exposure significantly enhanced the students' understanding of MSME functions and their role in the economy. It encouraged innovation, entrepreneurial thinking, and awareness of industry-relevant skills. Participants expressed great enthusiasm in applying their observations to future projects and research. The visit not only reinforced technical knowledge but also fostered teamwork, communication skills, and career clarity. Overall, the event proved to be a valuable and transformative learning experience for all attendees.



Faculty Accompanied:

- ◆ Dr. B. Rajendra Prasad
- ◆ Dr. Shaik Salma Asiya Begum
- ◆ Mr. L. Narendra
- ◆ Mr. Y. Kranthi Kumar
- ◆ Mr. R. Chiranjeevi
- ◆ Ms. P. Padmini



Faculty Updation Programme (FUP) on Cybersecurity in Financial Services



MeitY
Government of India



Organised By: Department of CSE (AI & ML), AI&DS, MBA

Lakireddy Bali Reddy College of Engineering (Autonomous), Spoke Institute in coordination with Jawaharlal Nehru Technological University Kakinada (JNTUK), Kakinada Under the prestigious The Ministry of Electronics and Information Technology (MeitY), Information Security Education and Awareness (ISEA) Phase-III Project initiative by the Government of India.

Dates : 17th March 2025 to 21st March 2025

Offline Sessions: 17th&18th March 2025 | Online Sessions: 19th to 21st March 2025

Timings: 10:00 AM – 12:00 PM, 2:00 PM – 4:00 PM



Dr.K.V.Ramana Sir welcome by Ms.G.Divya



Principal Dr.K.Appa Rao, Resource Person Mr Ram Kumar, Project Manager, Aditi Software, Principal Investigator Dr K V Ramana



Convener Dr.S.Jayaprada speech



Faculty joined for the 2 Days of the Offline Programme

The Faculty Updation Programme (FUP) on “Cybersecurity in Financial Services”, sponsored under the prestigious ISEA Phase-III Project, was inaugurated on 17th March 2025 at Lakireddy Bali Reddy College of Engineering (LBRCE), Mylavaram. The inaugural ceremony was graced by esteemed dignitaries, including the Principal Investigator Dr. K. V. Ramana, Rector, JNTUK, Kakinada, and Dr. K. Appa Rao, Principal, LBRCE.

The Department of CSE (AI & ML), Lakireddy Bali Reddy College of Engineering (LBRCE), in association with JNTUK, Kakinada, successfully organized a five-day Faculty Updation Programme (FUP) on "Cybersecurity in Financial Services" from 17th to 21st March 2025 in hybrid mode. Sponsored under the ISEA Phase-III Project, this initiative aimed to empower faculty members with contemporary knowledge and practical insights in areas such as blockchain, digital banking, cybersecurity, and financial technology. The event brought together over 166 faculty participants from various institutions, reflecting a strong commitment to continuous professional development.

The programme was inaugurated on 17th March 2025 at LBRCE, Mylavaram, with eminent guests including Dr. K. V. Ramana, Rector, JNTUK and Principal Investigator of the ISEA Phase-III project, and Dr. K. Appa Rao, Principal of LBRCE. Dr. Ramana emphasized the role of cybersecurity in the rapidly evolving digital economy and encouraged faculty to adopt updated teaching practices. The first two days featured offline sessions, including expert talks and hands-on workshops led by Sri Ram Kumar from Aditi Software and Dr. E. Suresh Babu from NIT Warangal, focusing on the fundamentals of blockchain, digital payments, and cryptocurrency.

The subsequent three days of online sessions featured insightful lectures and practical demonstrations from renowned academicians such as Dr. Ramesh Babu Battula (MNIT Jaipur), Dr. N. Vijaya Raj (Vel Tech Institute), and Dr. Rajendra Pamula (IIT Dhanbad). Topics covered included smart contracts, decentralized finance (DeFi), cybersecurity in fintech, quantum cryptography, and curriculum design for financial technologies. These sessions not only enhanced the participants' technical skills but also inspired them to innovate in academic delivery and research.

The programme concluded with a valedictory session addressed by Dr. K. V. Ramana, who highlighted the significance of faculty training in national development. Participants expressed their appreciation for the well-organized and content-rich programme, which combined theory, hands-on exposure, and curriculum development strategies. The FUP made a significant impact by enriching academic capabilities, encouraging interdisciplinary research, and fostering a deeper understanding of cybersecurity in financial services.



Dr E Suresh babu sir explaining the concepts of Digital Payments, Banking, And Cryptocurrency



Sri Ram Kumar sir during the hands on session



Sri Ram Kumar sir being felicitated by the Convenors of the FUP