Monthly Report-2025

February

Department of Engineering and Technology

S-VYASA Deemed to be University

School of Advanced Studies

1. Introduction

This report outlines the key activities and accomplishments of the Engineering and Technology Department of School of Advanced Studies, S-VYASA Deemed to be University for February 2025. The month focused on academic initiatives and student engagement aimed at enhancing the learning experience and fostering innovation.
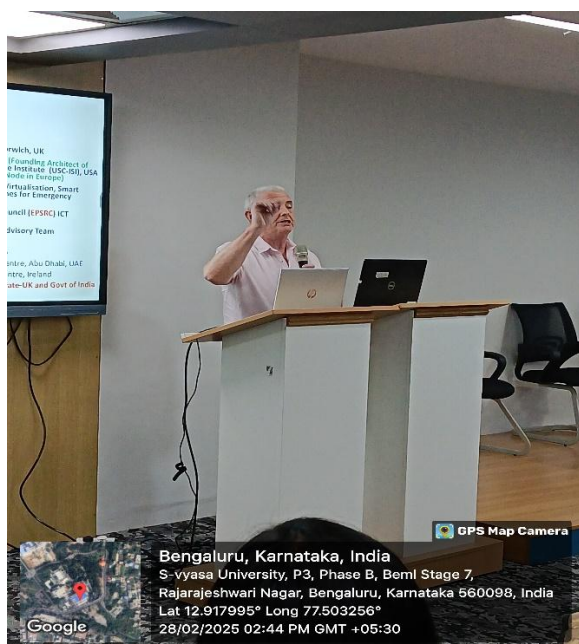
2. Academic Activities

- Course Committee Meeting: The Course Committee Meeting was held at the beginning of the month with the Dean and course instructors of various courses in B.Tech. program to facilitate effective course planning, syllabus structuring, and assessment strategies. The discussions aimed at ensuring a well-organized academic framework to enhance student learning outcomes.

Course Committee Meeting with Course Instructors and Dean, Engineering
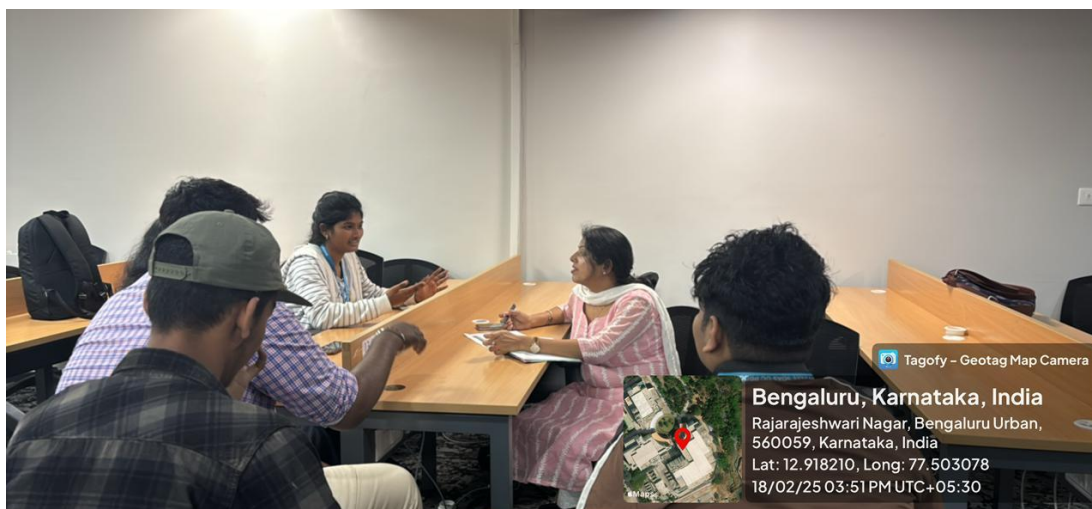
- International Seminar on "Next-Gen Frontiers: Pioneering the Future with Emerging Technologies" was organized in collaboration with BVM Holy Cross College, Cherpunkal, Kerala to commemorate National Science Day 2025. Welcomed 70 students and 5 faculty members from BVM Holy Cross College, alongside 150 of our students.
- Featured five insightful sessions:

1. "The Future of Coding with Generative AI" – Shri. Balaji Sankar, Co-founder, IBM
2. "Machine Learning: The Building Block of AI" – Smt. Divya Krishna R, Co-founder & CEO, Datastride Analytics Pvt. Ltd.

3. "The Next Generation of Robotics: Intelligent, Adaptive, and Human-Centric" – Shri. Rahul Balachandran, Founder & MD, Inker Robotics.
4. "UAV Technology: Understanding the Core Mechanics and its Advancements" – Shri. Basim Asis, Senior UAV Hardware Engineer, Fuselage Innovations Pvt. Ltd.
5. "Network-enabled AI Services and Applications" led by Professor Gerard Parr, PhD, MBE, University of East Anglia.

- Hands-on Experience with Drones for seminar participants.

Guest lecture on "Network-enabled AI Services and Applications" led by Professor Gerard Parr, PhD, MBE, University of East Anglia.

- Class Committee Meeting: The objective of conducting course committee meeting was to collect section-wise feedback on class execution and general requirements. The respective meetings were chaired by Dr. Smrithi S P, Ms. Linta Maria George and Dr. Jismy K Joseph. Discussions led to corrective measures for academic enhancement.
- Executiont of Mentoring Programs: Strengthened faculty-student mentorship to provide academic and career guidance.
- First Continuous Internal Assessment (CIA) Planning: The department initiated preparations for the upcoming CIA examinations, ensuring syllabus coverage and assessment strategies were in place.

Class Committee Meetings with Board Chairs and Student Representatives

3. Instituitional/Departmental Initiatives

- Entrepreneurship Program Implementation: The department has initiated Entrepreneurship Program to foster entrepreneurial mindsets in students as a part of student engagement program.

- Parent-Teacher Meeting (PTM): A PTM was conducted to discuss students' academic progress, areas of improvement, and overall development. Faculty provided detailed feedback to parents, addressing student performance and offering guidance for academic success.
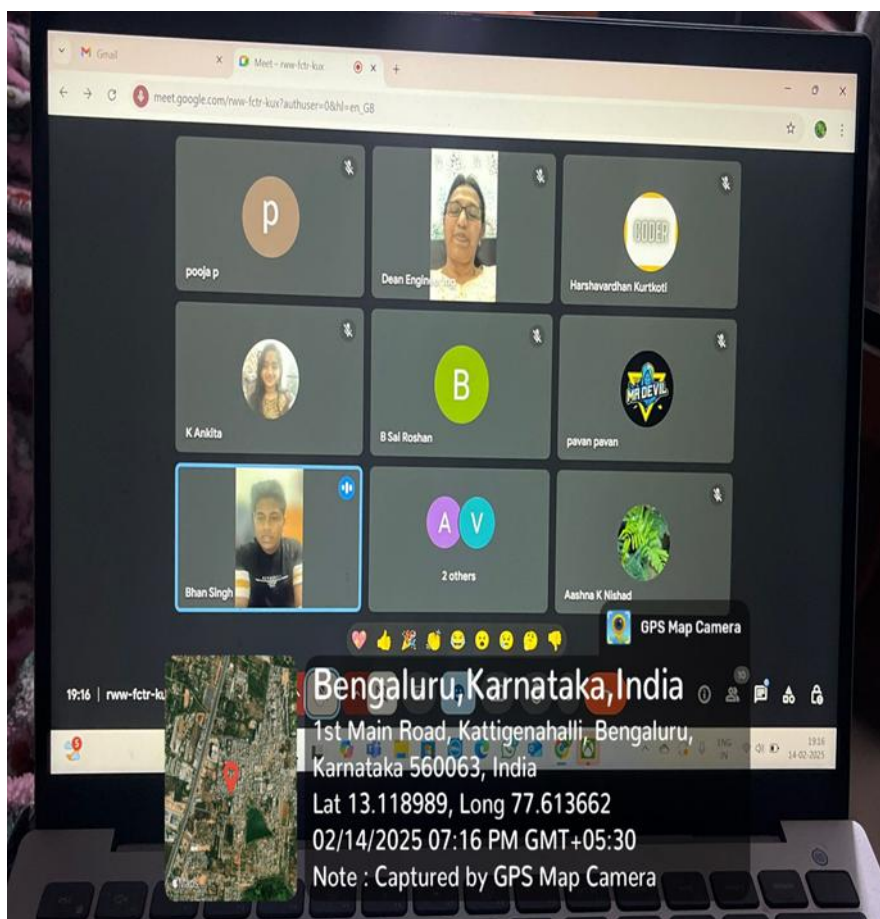
Parents-Teacher's Meeting

- An inspiring guest lecture was given by Dr. K. K. Saju, Vice Chancellor of Kannur University on 11th February, who addressed the engineering students on emerging trends and innovations in the field of technology. His session provided valuable insights into interdisciplinary research, the role of foundational sciences in engineering, and the evolving landscape of higher education. Students had the opportunity to interact with him, gaining perspectives on how to align their academic journey with real-world applications.
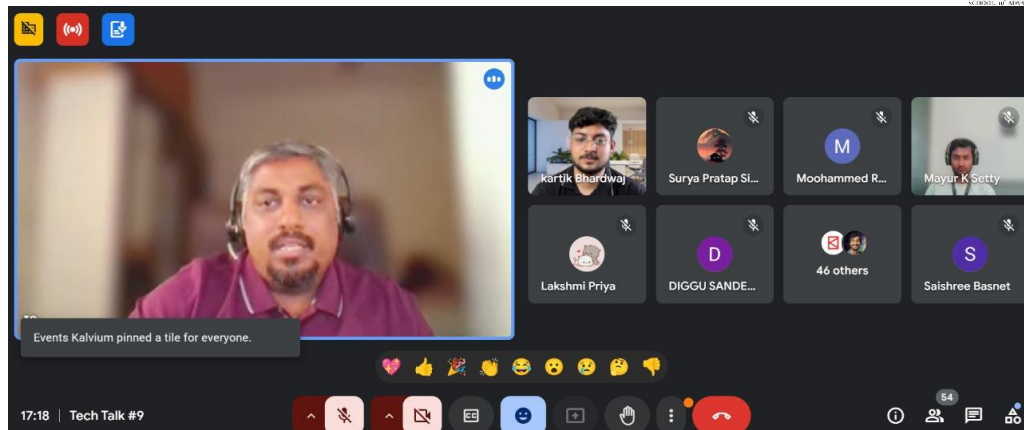

Guest Leture by Dr. K K Saju, Vice Chancellor Kannur University

- Webinar on "AI for Sustainable Development: Transforming the Future of SDGs" for students working on impactful projects and initiatives was organised on 14th February with Bhan Singh, Indian Delegate, Harvard Project for Asian and International Relations (HPAIR) and Founder & President, THE SUMMIT 17 as the resource person.

Webinar on "AI for Sustainable Development: Transforming the Future of SDGs"

- Kalvium Tech Talk: Anup Anand, Lead Software Engineer at Lowe's, is a seasoned technologist with 12+ years of experience in backend development, scalable architecture, and software reliability. Having worked at Target, mscripts, and Exeter Group, he has deep expertise in Java, REST APIs, MySQL optimization, cloud solutions (AWS, S3, SQS), and enterprise security. In the session he gave insights into Test-Driven Design which will help the students to understand how structured testing enhances software quality and scalability.

Kalvium Tech Talkby Mr. Anup Anand

4. Student Engagement Activities

- AI Hackathon Organized by Kalvium: The department participated in this PAN India event involving over 17 campuses. The first round took place on February 3, 2025. Eight teams from our university participated, with two teams qualifying for the next round. Criteria for assessment: 25% each on Idea, Technical Capability, UI/UX and Presentation and Communication. Students used other AI models apart from Promptrepo. However, out of Top 20 teams, who chooses to use Promptrepo were provided Office Hour (interactive session) on 4th Feb 2025 with the Promptrepo team. Students were allowed to choose any problem statement as per their wish, as long as it solves a real-world problem. Extra weightage will be given to ideas that reflect your personal pain point and storytelling. The final round took place on 8th Feb 2025 and the result was announced on 12th Feb, 2025.
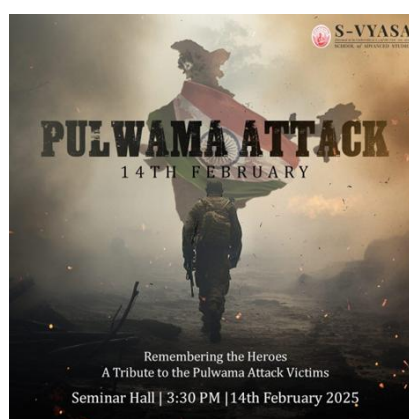

AI Hackathon Event

- The Campus Leet Challenge: An intense coding competition was organised on 18th February, where participants battle it out to solve challenging problems and showcase

their programming skills. The top performer earned the prestigious CampusLeet Tag along with a cash prizes. It was the perfect opportunity to sharpen problem-solving abilities and compete with the best coders on campus!

The Campus Leet Challenge: Competition for Students

- Interactive sessions and technical discussions were conducted as part of regular coursework.
- AI and ML-focused hands-on projects encouraged students to apply theoretical knowledge.
- Participation in industry-oriented events provided exposure to emerging technologies.
- **Remembering the Heroes: A tribute to the Pulwama Attack Victims:** Students were encouraged to organise a meeting and they have enthusiastically gathered in the Seminar hall to pay tribute to the valiant CRPF soldiers who sacrificed their lives in the Pulwama attack.

Event: Remembering the Heroes: A tribute to the Pulwama Attack Victims

Prepared by:

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