



DEAN'S MESSAGE



The Department of Electrical & Electronics Engineering (EEE) at SRKR Engineering College has, over the years, built an enviable reputation for producing highly skilled and industry-ready graduates. Its consistent performance in academics, placements, and alumni achievements stands as a testament to the dedication of its faculty and the strength of its academic ecosystem.

TA curriculum that combines strong theoretical foundations with advanced practical training in state-of-the-art labs ensures graduates are well-prepared for modern industry needs. Placements are a hallmark, with alumni working in top MNCs like Tata Power, Schneider Electric, JSW, ABB, TCS, Infosys, Wipro, Tech Mahindra, and Cognizant, as well as prestigious PSUs. The global alumni network excels in leadership, research, and entrepreneurship, with many pursuing higher studies in renowned institutions across the USA, UK, Australia, Germany, and Singapore. The department continues to nurture engineers who drive innovation and contribute to societal progress.
Prof. K.R. Satyanarayana
M.Tech (IIT-BHU, Varanasi), Ph.D.
Dean - Training & Placement Cell



Vision and Mission

VISION:

To become a center of excellence in electrical engineering that fosters learning, research and innovation with social relevance.

MISSION:

- To build an environment that cultivates employability skills with human values and topics.
- To establish a collaborative interaction with industry for laboratory development, research and innovation.
- To create an ambience that encourages active participation of students and staff in the pursuits towards excellence.

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Spark of Brilliance

Alumni Reunion

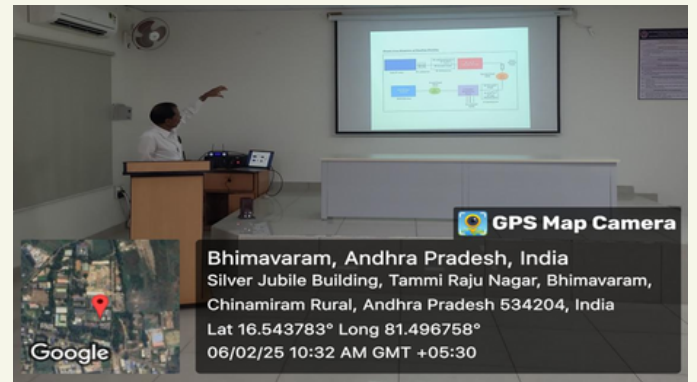


On 22nd January 2025, the Department of EEE, in association with the SRKREC Alumni Association, hosted a grand Alumni Reunion for the 1999 Batch. The event was a delightful blend of nostalgia and celebration, as alumni joyfully reunited with friends and faculty after 26 years. Heartfelt memories were shared, achievements celebrated, and mentors honored in an emotional and inspiring gathering. The event, coordinated by Dr. G.H.K. Varma, rekindled old bonds and highlighted the enduring spirit of the SRKR family.



Workshop on RE & EC

On 6th February 2025, the Department of EEE, SRKR Engineering College, organized an expert talk on “Renewable Energy & Energy Conservation for Sustainable Environment” at the EEE Seminar Hall. Renowned speakers Dr. Naganna Gowda (Former Director, KPCL) and Mr. D. Anbarasu (Deputy Director, NPTI) addressed the gathering, highlighting the role of renewable sources and energy efficiency in building a sustainable future.



The session, coordinated by Dr. G. Pavan Kumar, witnessed enthusiastic participation from over 70 students and provided valuable insights into real-world energy practices and technologies.



MATLAB-Hardware Integration



SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE
China Amiram, Bhimavaram - 534204
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

**A Student Training Program on
MATLAB-HARDWARE INTEGRATION**

In Association With
SRKR IEEE STUDENT BRANCH
SRKR IEEE STUDENT BRANCH

Resource person:
Sri. A. Hemanth Kumar Raju,
Assistant Professor, EEE Department.

Co-Ordinator:
D. Ananth Koteswar Rao,
Assistant Professor, EEE Department.

25/01/2025
01:00 pm - 05:00 pm
PG Simulation Lab

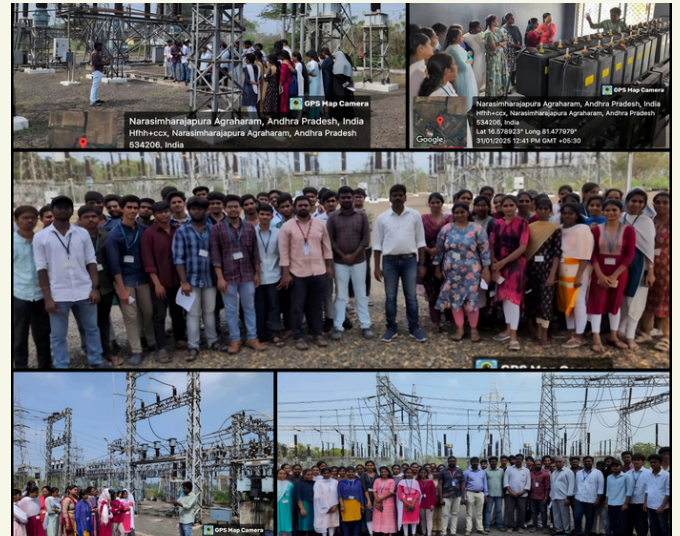
Register At EEE
Department Office Room

On 25th January 2025, the Department of EEE, in association with the SRKR IEEE Student Branch, hosted a dynamic training program on “MATLAB-Hardware Integration.” Guided by Mr. D.A. Koteswara Rao, the workshop empowered students with real-time skills in Arduino-MATLAB interfacing, DC-DC converter design, and closed-loop control systems. Engaging projects like traffic signal automation and wiper control brought theory to life, sparking curiosity and innovation. The session blended simulation with hardware application, equipping future engineers with industry-relevant competencies. A perfect mix of learning, doing, and innovating!



INDUSTRIAL TOUR

On 31st January and 10th February 2025, the Department of EEE organized an insightful industrial visit to the 220kV Substation at Undi for III/IV B.Tech students. The visit offered a real-time learning experience, where 119 students explored key components like transformers, circuit breakers, and switchgear under expert guidance.



This hands-on exposure brought classroom concepts to life, showcasing the complexity of high-voltage power transmission. Coordinated by Mr. I. Kranthi Kumar, the visit successfully bridged the gap between academic knowledge and industrial application, igniting curiosity and technical confidence among budding engineers.

Electric Vehicle Workshop

On 14th February 2025, the Department of EEE, in association with the Association of Electrical Engineers (AEE), conducted an electrifying One Day Workshop on Electric Go-Kart under SANKALP 2K25.



A National Level Techno-Cultural Symposium

SANKALP 2K25

Electrify Your Journey

WORKSHOP ON E-GOKART

DAY ACTIVITIES :-

- Design Drawing
- Vehicle Dismantling & Assembling
- PPT about all Motors, Controllers, Brakes
- Motivation about Vehicle Design

From concept to construction, students explored EV technologies, design principles, and component functionalities through presentations, live demos, and hands-on sessions. Participants reconstructed and test-drove an electric go-kart,



gaining valuable practical experience. Guided by Sri Y. Bhanuchandar and coordinated by K. Dhana Ganesh and K. Kishore, the event fueled curiosity, creativity, and confidence in future e-mobility innovators.

Cisco Certified Value Added Course

On 10th April 2025, the Department of EEE, SRKR Engineering College, in collaboration with the Cisco Networking Academy, commenced a Value-Added Course titled “C Essentials Part-I – Cisco Certification”, which concluded on 3rd May 2025. The course aimed to enhance students’ programming skills, especially in C language fundamentals, pointers, arrays, memory management, and logical operations. Mrs. M.S. Radha, Assistant Professor, IT Dept., served as the resource person, delivering engaging and practical sessions. Mr. A. Hemanth Kumar Raju, Assistant Professor, EEE Dept., efficiently coordinated the program. A total of 48 EEE students actively participated and benefited from this industry-aligned training. The course also enabled students to pursue official Cisco certification, thereby strengthening their career prospects. The department extends its sincere thanks to the management, Dr. Ravi Kiran Varma (HOD, IT Dept.), faculty, and students for their enthusiastic support in making this initiative a success.

Design & Fabrication of PCB Workshop

SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A)
 China amiram, Bhimavaram - 594004, W.G. Dist., A.P.
 Department of Electrical and Electronics Engineering

A Student Training Program on
DESIGN & FABRICATION OF PCB

In Association With
SRKR IEEE STUDENT BRANCH
 SRKR IEEE STUDENT BRANCH

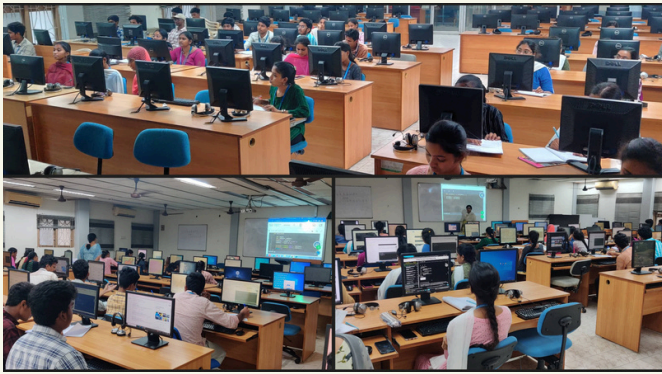
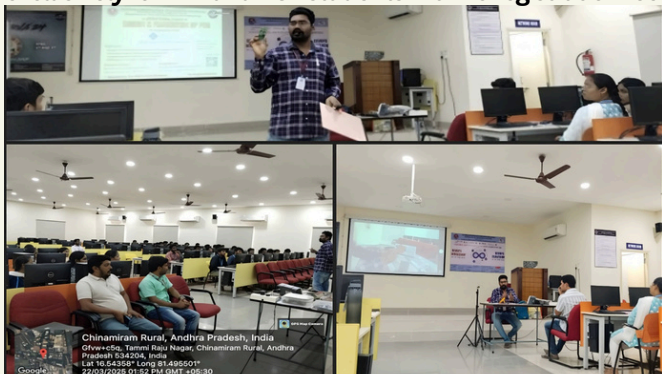
Highlights :

- Design of Schematics and layouts of PCB using EAGLECAD
- Procedural steps to Fabricate the designed PCB
- Identification and Evaluation of Components
- Soldering and Testing of designed board

22/03/2025
 01:30 PM - 04:30 pm
 Venue : D - 311
 Sadhana Lab

Register Here

On 22nd March 2025, the Department of EEE, SRKR Engineering College, in association with the SRKR IEEE Student Branch, organized a hands-on training session on "Design & Fabrication of PCB". The session covered schematic design using EAGLECAD, fabrication steps, component evaluation, soldering, and testing of PCBs. Dr. G. Syamnaresh, Associate Professor, served as the resource person, while Sri. S. Rajasekhar Reddy, Assistant Professor, coordinated the event. The program was conducted exclusively for EEE and ECE students with no registration fee.



Project Expo

On 25th April 2025, the Department of Electrical & Electronics Engineering, SRKR Engineering College, organized Project Expo-2025, a grand hardware exhibition of final-year curriculum and non-curriculum projects. Coordinated by Dr. G. Syamnaresh, the event provided a platform for students to exhibit their technical innovations, teamwork, and problem-solving skills. A total of 46 projects, including 6 industry internships, were showcased, covering cutting-edge topics like smart energy systems, electric vehicles, AI-based solutions, and renewable energy integration. The projects were evaluated by Dr. T.V. Hyma Lakshmi and Dr. K.N.V. Satyanarayana from the ECE Department.



The expo witnessed enthusiastic participation from students and active interaction with faculty and evaluators. Prizes were awarded to the top three teams, recognizing technical excellence and creativity. The department appreciates the support of the management, faculty, and students in making this event a resounding success.

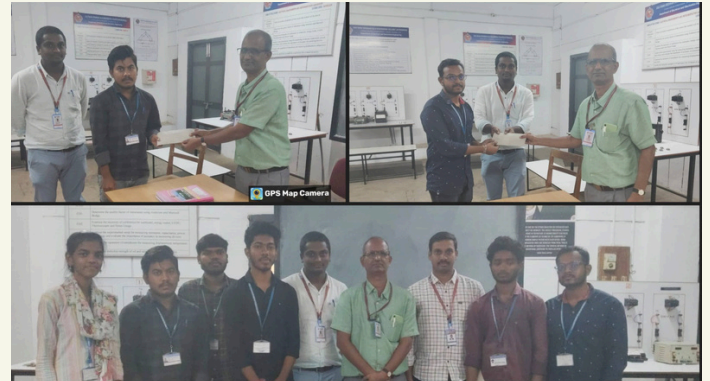
Empower & Inspire

On 24th January 2025, the Department of EEE, SRKR Engineering College, in association with Women Empowerment Cell (WEC), organized an inspiring event titled “Empower & Inspire Girl Child” to mark National Girl Child Day. The program featured an interactive session by Dr. Aishwarya Bhupathi Raju (MBBS, MD General Medicine), who addressed students on the importance of health, education, and equal opportunities for girls. Held at the EEE Seminar hall, the session aimed to raise awareness about girl child rights and empower young minds to pursue their dreams confidently.



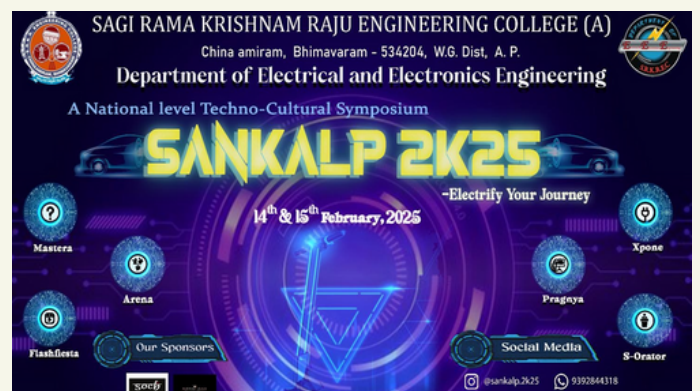
Coordinated by Dr. K. Swetha, the event witnessed enthusiastic participation from faculty and students and was well appreciated for its strong message on gender equality and social empowerment.

STUF – Student Feeding Initiative (Spring 2025)



From February to April 2025, the Voluntary Service Group (VSG) of the EEE Department organized the Student Feeding Initiative (STUF) – a meaningful social service program aimed at supporting students in need. Coordinated by Dr. K.S.S. Prasad Raju, the initiative provided food and tiffin tokens to underprivileged students, ensuring they received proper nourishment during their academic routine. With the support of faculty and alumni, a total of 7 students were benefited – 4 received tiffin tokens, and 3 received food tokens. The initiative not only addressed a basic need but also reflected the department's deep commitment to empathy and student welfare. Such acts of kindness strengthen the spirit of community and service among students and staff alike.

SANKALP-2025



SANKALP-2K25 – Where Energy Meets Innovation!
 Boom! 🌟 On 15th Feb 2025, the EEE Department of SRKR Engineering College turned up the voltage with SANKALP-2K25 – a day dedicated to E-Mobility and pure creative power.

From brain-buzzing battles in XPONE, confidence showdowns in MASTERA, power-packed ideas in PRAGNYA, and mic-dropping moments in S-ORATOR, to the thrill of Treasure Hunt and the fun frenzy of ARENA – the campus was ELECTRIFIED! 📱. Students from various branches joined forces, proving that when young minds connect, the spark is unstoppable. One epic day, countless charged memories



Apoorva-2025



📌 **Apoorva-2025 – Connecting Generations through Alumni Wisdom** On 12th April 2025, the EEE Department, in collaboration with the SRKR Alumni Association, organized Apoorva-2025, an Alumni Interaction Workshop. The event featured Dr. Nayak as Chief Guest, whose keynote address inspired students with insights from his academic and professional journey. Alumni from various batches shared career experiences, offered mentorship, and discussed industry trends. Interactive Q&A sessions and networking opportunities fostered a meaningful bond between past and present students, creating a foundation for ongoing guidance and collaboration.

Farewell-2025



📌 **Farewell Meet 2025 – A Fond Farewell to the 2021-25 Batch** The Department of Electrical & Electronics Engineering organized a heartfelt Farewell Meet for the 2021-25 batch on 26th April 2025 in the U-Block Seminar Hall. The event commenced at 11:00 A.M., bringing together all faculty members and final-year students to celebrate four years of learning, growth, and memories. Faculty and students shared their experiences, reflecting on achievements, challenges, and unforgettable moments. Best Outgoing Student Awards were presented to one male and one female student, recognizing their outstanding contributions and performance. Winners of Project Expo-2025 were also felicitated for their innovation and technical skills. The gathering concluded with a fellowship lunch, marking not just the end of an academic chapter, but the beginning of new journeys for the graduating students.

STUDENT ACHIEVEMENTS



🏆 **SRKR EEE Students Win ₹30 Lakhs in MSME Idea Hackathon 4.0** Two final-year EEE students from SRKR Engineering College achieved national recognition in the MSME Idea Hackathon 4.0 (Youth), organized by the Ministry of MSME, Government of India. Out of 4,000+ teams, only 488 ideas were approved nationwide, including 47 from Andhra Pradesh. **Breathease – Issapuri Ganga Bhavani (4/4 EEE)**, Mentor: M. Raj Sekhar – AI-powered device to optimize sleep breathing patterns. **FitBreath – Mohammad Arfatulla (4/4 EEE)**, Mentor: M. Raj Sekhar – Portable breath analyzer to track fat metabolism during workouts. Supported by AICTE IDEALab & MSME Business Incubator, each project received ₹15 lakhs, totaling ₹30 lakhs in funding. Principal Dr. K.V. Murali Krishnam Raju commended their innovation and entrepreneurial spirit.

Faculty Achievements

Ph.Ds



Faculty Achievements – Ph.D. Milestone
 The Department of Electrical & Electronics Engineering proudly congratulates three faculty members on successfully earning their Ph.D. degrees, marking a significant milestone in their academic careers: Dr. Swetha Monica Indukuri – A Novel Intelligent Techniques Integration of Grid Connected PV System for Power Quality Improvement, Nirwan University (Guide: Dr. Alok Kumar Singh) Dr. N.V.A. Bhavani – Design and Implementation of Renewable Hybrid Power Generation System with Novel Energy Management Strategy and Advanced Multi-Level Converters, Nirwan University (Guide: Dr. Alok Kumar Singh) Dr. Dadinaboina A.K. Rao – Power Quality Improvement in Grid Connected Microgrid System Applications with Adaptive Control Scheme, Annamalai University (Guide: Dr. C. Sasi) The department applauds their dedication to research and academic excellence and wishes them continued success.



This achievement is a testament to their consistent dedication to academic excellence, impactful research, and unwavering commitment to student success. Over the years, they have contributed significantly to the department’s growth through quality teaching, innovative projects, and mentorship. The department wishes them continued success and looks forward to their future contributions in shaping the next generation of engineers.

CERTIFICATIONS



Our faculty members have successfully completed NPTEL Online Certification Courses offered by IITs in Internet of Things, Power Electronic Converters, and Research Methodology, securing high scores that reflect their dedication and expertise. This accomplishment demonstrates their commitment to continuous learning and to enhancing the quality of teaching, research, and innovation in our institution. We congratulate them on this remarkable achievement.

PROMOTIONS

Faculty Promotions – Celebrating Excellence in EEE
 The Department of Electrical & Electronics Engineering proudly congratulates Dr. Md. Azahar Ahmed, Dr. G. Kusuma, and Dr. G. Shyam Naresh on their well-deserved promotion to Associate Professor.

FACULTY PUBLICATIONS

- Santosh B S S, Thameem Ansari M Mohammed, Kanta Rao P and Harish Kumar Varma G "Optimal initial duty for improved mppt under change in irradiances and partial shading conditions," Journal of Engineering Research Express, vol. 6, no. 07-Oct-24, doi: doi.org/10.1088/2631-8696.
- O.Koduri, R.Ramachandran, M.Sai Veerraju, "Empirical mode decomposition and optimization assisted ANN based fault classification schemes for series capacitor compensated transmission line," Journal of Operation and Automation in Power Engineering, vol. 13, no. 1, doi: 10.22098/joape.2023.12112.1899.
- M. Rama Prasad Reddy, P Sailesh Babu, K Giridhar, Rudresha S J, Chodagam Srinivas, and Siva Ramaiah Yenugu, "Block-chain enabled strategies for efficient power loss management in distribution networks," I. J. of Electrical & Electronics Research, vol. 12, no. 4, doi:https://doi.org/10.37391/IJEER.120448.
- S. Sai Kumar, Surya Prasada Rao Borra, Yaswanth Kumar Alapati, P Udaya Bhanu, Ramesh Chandra, Bakkala Santha Kumar, "Empirical soundings to facial countenance recognition using CNN," Journal of Theoretical and Applied Information Technology, vol. 102, no. 24, doi: https://www.jatit.org/volumes/Vol102No24/7Vol102No24.pdf.
- Rachakonda V.L.N.D., Garlapati S., Yadlapati K., "A new dual-input bidirectional dc-dc converter with enhanced voltage gain and reduced part count," Journal of Electrical Engineering and Technology, , doi: 10.1007/s42835-025-02141-5.
- Etukuri S., Siva M., Varma B.R.K., "Enhanced fault classification in inverter-fed transmission lines using deep learning," Engineering Research Express , doi: 10.1088/2631-8695/ad7d6a.
- K., Swetha, Murali, Chekuri Srinivasarao, Mantri , S., Srikanth, A., Ramakrishna, Adabala, "Harmonic analysis of stator current for grid connected five phase open end winding squirrel cage induction generator using indirect rotor field-oriented control technique with three level rectifier," International Journal of Electrical and Electronics Research, vol. 12, no. 4, doi: https://ijeer.forexjournal.co.in/archive/volume-12/ijeer-120449.html.
- Swetha Kannepally, Ch.Murali, "Indirect field-oriented vector control for five- phase open end winding asynchronous generator in wind energy system," 2024 2nd International Conference on Cyber Physical Systems, Power Electronics and Electric Vehicles (ICPEEV), , doi: https://doi.org/10.1109/ICPEEV63032.2024.10932062.
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- Pavan Kumar Gorle, R. Srini Naik, Anilkumar chappa, karanam appala naidu, Durga Prasad Chinta, "Cascade control scheme for frequency control of wind-integrated multi-area-multi-machine ac/dc-interlinked power system with deregulation," Electrical Engineering, doi: https://doi.org/10.1007/s00202-024-02896-6.
- Kumarraja Andanapalli, M. Biswal, P.Ray "Wavelet synchro-squeezing transform and dynamic threshold supported symmetrical power swing technique for modern transmission network," Chinese Journal of Electrical Engineering*, vol. 10, no. 2, doi: 10.23919/CJEE.2024.000064.
- Venkatanagaraju, Kasimala, Maddi Rakesh, Bhanu Chandar Yenugu, P. Prabhakara Sharma, Kumarraja Andanapalli, and Monalisa Biswal. "Major power system blackouts: a survey," 2024 10th International Conference on Electrical Energy Systems (ICEES) , doi: 10.1109/ICEES61253.2024.10776859.
- Chodagam Srinivas, P Sailesh Babu, V Durga Rao, A Venkateswara Reddy, G Mallikarjuna, Heman Chittapragada, "Block-chain assisted strategies for power loss reduction in modern distribution systems," International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Application. https://doi.org/10.1109/ICAQSA64000.2024.10882445.
- K. Chandravathi, T. R. V. Pavan Teja, Reddi. Bhavya Sri, G. Harish Kumar Varma, B.S.S Santosh, "Power enhancement of pv array by calcudoku static reconfiguration technique," 2024 International Conference on Sustainable Power & Energy (ICSPE), 2024. , doi: 10.1109/ICSPE62629.2024.10924346.
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- Alluri Hemanth Kumar Raju, Venugopal Reddy Barry, G Harish Kumar Varma, "Design of novel cross-tied trinary sequence multilevel inverter," 2024 International Conference on Social and Sustainable Innovations in Technology and Engineering (SASI-ITE), doi: 10.1109/SASI-ITE58663.2024.00034.
- Kante Venkatadurgaprasad1*, Barry Venugopal Reddy2, Gadiraju Harish Kumar Varma3 and Soumitra Das4, "Investing solar bifacial half cut single pv panel for enriched power delivery and system stability using hybrid approaches," International Conference on Sustainable Green Energy Technologies (ICSGET2024).doi: https://doi.org/10.1051/e3sconf/202454701023.

STUDENT COORDINATOR : P.SUPHAL ANAND