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THE SPARK

Igniting Innovations

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

MAR 2026

UNIVERSITY COLLEGE OF ENGINEERING KAKINADA (A)
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY KAKINADA

Inside

ACHIEVEMENTS

Outstanding Performance in GATE 2026

The students of the Department of Electrical Engineering demonstrated remarkable academic excellence in the Graduate Aptitude Test in Engineering (GATE) 2026, securing commendable ranks in Electrical Engineering (EE), Electronics and Communication Engineering (EC), and Instrumentation Engineering (IN). A total of 25 GATE qualifications were achieved by the students, reflecting their dedication, perseverance, and strong technical foundation.

Among the top performers, Jinnabattina Mukesh Babu secured an impressive All India Rank (AIR) 2352 in Instrumentation Engineering, while Alapati Bhargava achieved AIR 2761 in Electrical Engineering. Several other students secured competitive ranks below AIR 5000, highlighting the department's consistent focus on academic excellence and competitive examination preparation.

These achievements are a testament to the hard work of the students and the continuous guidance provided by the faculty members. The success of the students in GATE 2026 not only enhances the reputation of the department but also opens opportunities for higher education in premier institutions, research careers, and recruitment in Public Sector Undertakings (PSUs). The Department congratulates all the achievers and wishes them continued success in their future endeavors.

Highlights:

1. AIR 2352 – Jinnabattina Mukesh Babu (Instrumentation Engineering) 22021A0220
2. AIR 2761 – Alapati Bhargava (Electrical Engineering) 21021A0245
3. AIR 3174 – Mallidi Sai Sahit Reddy (Electrical Engineering) 22025A0257
4. AIR 3789 – Ankana Adarsh (Electrical Engineering) 23021A0202
5. AIR 4032 – Bheemireddi Prasanna (Electrical Engineering) 20021A0203

- M. Lalitha Ramya Sri, a I M.Tech student, secured First Place in the Paper Presentation event of ENCURSO 2K26 for her presentation on “GaN & SiC Based Power Converters in EV Applications.” In recognition of her outstanding technical presentation and innovative ideas, she was awarded a cash prize of ₹2,000.
- K. Kavya, (24025A0256) a III B.Techstudent, secured First Place in the Photography Contest held as part of ENCURSO 2K26. In recognition of her creativity, artistic vision, and photographic excellence, she was awarded a cash prize of ₹500.

EVENTS

- Dr. B. Ajay Babu and Dr. V. Shanmukha Naga Raju attended the Two-Week Faculty Development Program on “Internet of Things and Edge AI” organized by the Electronics & ICT Academy, NIT Warangal, in association with UCEK, JNTUK, from 20 February 2026 to 01 March 2026, enhancing his knowledge of IoT systems, Edge AI, and their real-world applications.
- A total of 44 teams participated in the Paper Presentation event of ENCURSO 2K26. Among them, 18 teams were from III B.Tech, 10 teams each from I B.Techand II B.Tech, and 6 teams from M.Tech. The event witnessed enthusiastic participation from students across all academic levels, providing a platform to showcase their technical knowledge, research aptitude, and presentation skills.

SJFD- 2K26

The Senior - Junior Friendship Day (SJFD)-2K26 held on march 14th 2026, was successfully organized by promoting mutual interaction, eliminating hesitation, and establishing a healthy relationship between the senior and junior batches. The main aim of this event is to welcome the junior batch into the college culture in a warm, friendly manner and also to establish a mentoring environment where juniors feel comfortable approaching seniors for academic and personal guidance.

EVENTS

Inaugural ceremony

The event was started with a formal introduction, greeting and addressing the faculty who have filled the hall to set an inspiring and formal tone for the event. This was followed by a brief introduction speech that set the rules and guidelines and the spirit of the day. The very next moment each student present in the event have introduce themselves to the audiance leaving their fear back the stage.

The event was immediately followed by a short speech delivered by J. Eeshithe smile of II B.Techaddressing the value and legacy of UCEK, JNTUK and of EEE department.

Students from first year B.Techof EEE department have delivered a very beautiful singing performances, showcasing their incredible musical talent and mesmerizing the entire audience.

DIGNITARY ADDRESSES

The event was highly elevated by the honorable presence of our chief dignitaries, who shared invaluable insights and recognized student achievements on stage.

Professor. K. Padma Raju, Principal, UCEK, JNTUK graced the occasion and delivered an inspiring address to the gathering. He emphasized the importance of maintaining academic excellence while balancing co-curricular development. He encouraged the students to utilize the college resources to their fullest potential to shape successful careers.

The Head of EEE Department Prof. K. Venkat Reddy took the stage to speak to the students. He highlighted the rich legacy of the EEE department and the value of strong peer-to-peer mentorship. He advised the juniors to look up to their seniors for academic guidance, lab coordination, and career motivation, stressing that a collaborative senior-junior relationship is the backbone of departmental success.

SJFD- 2K26

Prize Distribution Ceremony

The formal Prize Distribution Ceremony was conducted in the presence of Prof. K. Padma Raju, Principal, UCEK; The head of EEE Department, Prof. K. Venkat Reddy and Dr. B. Ajay Babu, Assistant Professor(c). The respected dignitaries hand-delivered awards to the deserving winners of the sports tournaments held leading up to the event. Prizes were presented for each and every player of the winning team of games Dodgeball, Box Cricket, and Kho-Kho, amidst roaring applause from the audience. The segment wrapped up with a formal vote of thanks, appreciating the respected dignitaries and faculty members for taking time out of their busy schedules to guide and encourage the students.

Winners of Dodge ball Team

G. Jhansi (C), B. Veronica Blessy, P. Kavitha, V. Vasanthi, S. Bhavani Sri Manikanta, M. Vinay Krishna, K. Ranganadh, D. Pavan Kumar, E. Gnana Aniruddha, K. Hannah, M. Abhishikth, N. Trinetra Adarsh, V. Hema Raj, N. Aparna, and P. Keerthi were applouded with prizes from the dignitaries.

Winners of Box cricket Team

S. Tejaswini (c), P. Euneka, P. Priyanka, B. Priya Varshini, F. Mohammad, V. Bhaskara Rao, K. Ram Satya Ganesh, K. Harsha Sasidhar, P. Sai Ganesh, D. Arjun Chandran, G. Mohan Vamshi, J. Chandhini Sameera, P. Raja Nandhini, B. Bala Venkata Charan Kumar Reddy, and M. Snehitha were applouded with prizes from the dignitaries

Winners of Box cricket Team

B. Neha (C), K. Hari Chandana Sai Priya, B. Karthikeya Sai, D. Bhargav, K. Nissi, K. Hemalatha, S. Nikhitha, T. Srilakshmi Saathvika Konda, T. Naga Geethika, B. Gnana Charan, K. Geethika, S. Raj Kumar, D. Arjun Chandran, P. Krishna Kumari, and G. Sahasrasri. were applouded with prizes from the dignitaries

Fun time, Games, Dances and conclusion

The afternoon session of the event shifted to a high-energy fun time section featuring interactive games conducted to build teamwork and spark laughter. The activities included fast-paced challenges like Don't Squat at the Same Time and Opposite Sign Making. Dramatic talents were on full display during Dumb Charades and scene Recreation & Dialogues. where students re-enacted iconic cinema moments. The competitive energy beautifully transitioned into back-to-back dance performances by both batches, concluding the day on a memorable note with promoting respect and value to the department. As unfamiliar faces successfully united into a supportive departmental family.

ENCURSO - 2K26

ENCURSO 2k26 is more than just a National Level Technical Symposium; it represents an evolving journey of knowledge and innovation. Organized by the Department of Electrical and Electronics Engineering, this event serves as a dynamic platform designed to highlight and promote the technical skills, creativity, and problem-solving capabilities of the engineering community.

The theme of the symposium emphasizes the concept of continuous progress, with the word "ENCURSO" being derived from Spanish, meaning “IN PROGRESS.” This encapsulates the essence of the event — to foster an environment of growth, learning, and collaboration that moves forward with each iteration.

By using the term "IN PROGRESS", ENCURSO 2k26 is signalling that both the field of engineering and the event itself are ever-evolving, and there is always more to learn, discover, and improve. It’s not just a momentary showcase of current achievements but a call for ongoing development and innovation.

The symposium allows students to present their ideas, research, and projects, thus facilitating the exchange of technical knowledge, inspiring new ideas, and encouraging interdisciplinary collaboration. This in turn contributes to the holistic development of the student community, preparing them for future challenges in the world of engineering and technology.

The inclusion of the word "IN PROGRESS" also reflects the forward-thinking nature of the event. It invites participants to view their contributions not as final products, but as part of an ongoing dialogue that continuously improves the technological landscape.

INAUGURAL CEREMONY

The inauguration of ENCURSO 2k26 - EEE, took place on 28th March 2026 at 9:30 AM in the New Seminar Hall, Old Block, Department of Electrical and Electronics Engineering. This event marked the beginning of the highly anticipated National Level Technical Symposium organized by various departments, setting the stage for a celebration of innovation and technical excellence. The ceremony was graced by Prof. P. Subba Rao, the Rector of JNTUK, Kakinada, as the chief guest. His presence added a sense of distinction to the occasion. Alongside him were notable dignitaries such as Prof. K. Ravindra, the Director of IQAC and Capacity building, JNTUK as well as Prof. K. Padma Raju, Principal, UCEK,JNTUK. Dr. G. V. S. R. Deekshitulu, Vice Principal (Academics); Dr. M. Swaroopa Rani, Vice Principal (Administration). The head of EEE Department, Prof. K. Venkat Reddy. The event commenced with a warm welcome to the dignitaries, followed by traditional lighting of the lamp, a gesture that illuminated the ceremony with cultural significance. The atmosphere was filled with positivity as the Ganapathi song resonated throughout the hall, setting the tone for the event.

ENCURSO - 2K26

The student coordinators of Encurso2k26 were invited to present their respective tech fest reports. Ms. Pullati Haritha, the student coordinator for EEE, took the stage first, highlighting the workshops and events lined up for the symposium. The student Coordinators of Encurso 2k26 K.V.V. Sai Sriram, P. Haritha, K. Vijay, R. Hansika from III B.Tech, M. vishnu Vardhan, P. Kushala, K. Lakshmi Varshitha, D.Nivas, B.Pruthvi, D.Amrutha Varshini, N.Ajay from M.Tech

WORKSHOPS

Hands-on Drone Technology

The objective of this workshop was to provide participants with hands-on experience in drone technology. Attendees gained insights into drone operation, aerial photography, safety measures, and real-world applications. The student coordinators were A. Adarsh, P. Priscilla, Kota Sai Venkat from B.Tech; S. Kabu Grace, D. Amrutha Varshini, B. Prudhvi from M.Tech. The resource persons were Mr. Dola Sundeep and Mr. Althaf from IITDM, Kurnool and D. AKHIL, A total of 50 participants registered for the workshop out of which 12 participants from LAKKIREDDY BALIREDDY COLLEGE OF Engineering, 1 participant from BITS Pilani Hyderabad, and 37 participants from UCEK, JNTUK.

The drone training program consisted of three key sessions. In the first session, participants learned the theoretical aspects of a drone's components, including the frame for structure, motors and propellers for lift and movement, ESCs for motor speed control, and the battery for power. The flight controller, described as the drone's brain, processes sensor data from the IMU and GPS to stabilize and control flight. The second session covered the assembly process, where participants attached motors, propellers, ESCs, and the flight controller to the frame, wired the components, connected the battery, and calibrated the system. The final session provided hands-on experience with drone calibration and flight. Participants learned to power on the drone and controller, establish a connection, and control altitude and direction using the joysticks. Emphasis was placed on steady control, battery monitoring, and safe landing practices.

In conclusion, the drone training program provided a comprehensive understanding of drone technology, from theoretical knowledge to practical application. Participants gained insight into the key components and functions of a drone, including the frame, motors, propellers, ESCs, and flight controller. They developed hands-on skills in assembling, calibrating, and flying a drone, learning how to control altitude, direction, and stability. The training enhanced their technical knowledge and practical competence, equipping them with the skills necessary to operate and troubleshoot drones effectively.

ENCURSO - 2K26

Hands on "Li-ion battery packs and EVs

A two-day workshop on Electric Vehicles (EV) / Electric Mobility was conducted to provide students with both theoretical knowledge and practical exposure to modern EV technology. The workshop aimed to enhance students' understanding of EV components, problem diagnosis, and battery systems through a combination of classroom sessions and hands-on activities. It was coordinated by N. Ajay, an M.Tech student, along with M. Yaswanth Surya and S. Nagesh Naik, who are B.Techstudents from the 3rd and 2nd years.

On the first day, the morning session focused on fundamentals and problem diagnosis, where students were introduced to the basic concepts of electric vehicles, major components of EVs, and a systematic approach to diagnosing faults. The session emphasized analytical thinking and step-by-step methods for identifying issues in EV systems. In the afternoon session, students participated in hands-on activities involving the assembling and disassembling of an electric scooter, which provided direct exposure to real EV components and helped them understand the function of each part in detail, effectively bridging the gap between theory and practical application.

On the second day, the morning session covered battery and controller systems, focusing on battery types, manufacturing processes, charging and discharging mechanisms, battery cycles, lifespan, and key parameters affecting performance. This session offered in-depth knowledge of energy storage systems used in EVs. The afternoon session was dedicated to battery pack fabrication, where students gained practical experience in battery assembly, performed spot welding, conducted testing at different stages, and learned methods to detect faults in battery packs. This hands-on training enabled students to understand real-world battery manufacturing and testing procedures comprehensively.

ENCURSO - 2K26

Hands on workshop on “Digital Controllers

A two-day Hands-on Workshop on Digital Controllers in embedded systems was organized by Efftronics Pvt. Ltd., Amaravati. The workshop was conducted under the guidance of Mr. A. Praveen Reddy along with a team of five resource persons. The primary objective of the workshop was to provide participants with both theoretical knowledge and practical exposure to embedded systems and digital controller applications.

On the first day, the sessions focused on the fundamentals of C programming, introduction to microcontrollers, and basic concepts of embedded systems. The second day emphasized practical aspects such as interfacing of various devices, programming techniques, and digital electronics. These sessions enabled participants to gain hands-on experience and a deeper understanding of real-time applications.

A total of 35 students participated in the workshop, including 17 students from other institutions. Participants from Pragathi Engineering College (2 members) and ISTS for Women (15 members) actively took part in the sessions. The workshop witnessed enthusiastic participation and interaction among students.

The event was successfully coordinated by faculty members Dr. V. S. Naga Raju and Ms. K. Joshi Rani. The student coordinators, Lokeswara Rao, D. Nivas, and V. Upendra, also played a key role in organizing and managing the workshop activities efficiently.

Overall, the workshop was highly beneficial in enhancing the technical knowledge and practical skills of the participants in the field of embedded systems and digital controllers. It provided a valuable learning platform bridging theoretical concepts with real-world implementation.

Events

PAPER PRESENTATION

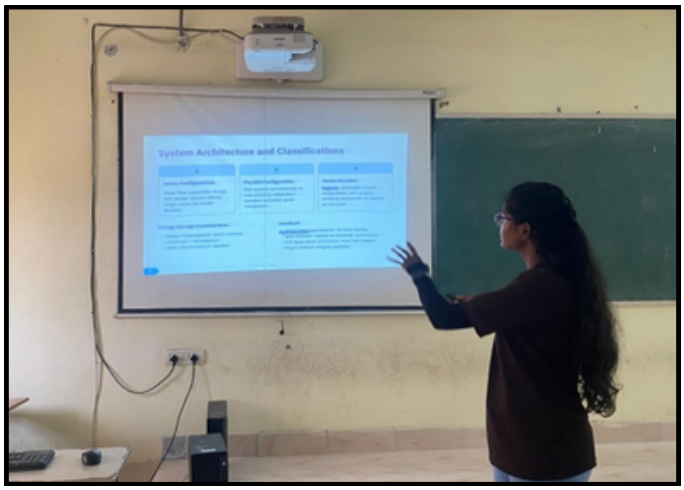
The Technical Paper Presentation, a major event of ENCURSO2K26, was held on March 28–29, 2026, in the EEE Department at JNTUK. The event provided a platform for students to present their technical knowledge, research work, and innovative ideas.

The event was coordinated by Vishnu Vardhan (M.Tech) along with R. Siva Karthikeya and Kavya Sri (III B.Tech, EEE). A total of 44 teams comprising 82 participants took part, including students from I, II, and III B.Tech, M.Tech, and BVCITS.

Research papers submitted by participants were evaluated by faculty members Smt. J. Jyothsna and Sri N. Sagar Teja Yadav, along with external judge Bhavani Satya Prasad, Electrical Engineering Professional at

ENCURSO - 2K26

AM Green Ammonia India Pvt. Ltd. Papers were assessed based on technical quality, originality, plagiarism checks, and relevance of the topic.



Winner of the Paper Presentation is M. Lalitha Ramya Sri from M.Tech 1st Year for the topic "GaN & SiC Based Power Converters in EV Applications" secured 1st Place with a Cash Prize of 2000/- .

PROJECT EXPO

The Project Expo, conducted as part of ENCURSO 2K26 on March 29, 2026, at the EEE Department Systems Studies Lab, featured two hardware projects presented by 7 participants. The projects were evaluated by Bhavani Satya Prasad and Mr. N. Sagar Teja after a day-long display and demonstration session.

The projects showcased were Smart Mining Safety Helmet and Autonomous Medical Delivery Drone. The Smart Mining Safety Helmet, an IoT-based system for detecting hazardous gases in mines and providing real-time safety alerts, secured first place. The Autonomous Medical Delivery Drone was designed to autonomously transport critical medical supplies to remote and emergency locations using GPS-based navigation.

The winning team, led by S. Yaswanth Kumar from PVP Siddhartha Institute of Technology, received a cash prize of ₹3,000 and merit certificates. Participation certificates were awarded to all other participants.

POSTER PRESENTATION

The Poster Presentation event of ENCURSO 2K26 was held on March 29, 2026, at the Computer Lab, EEE Department, JNTUK. The event provided a platform for students to showcase their creativity, technical knowledge, and innovative ideas through visual presentations.

The event was coordinated by M. V. N. Manasa and B. Mani Prudhvinadh (III B.Tech, EEE).

ENCURSO - 2K26

A total of 5 teams participated, including 4 teams from the EEE Department, JNTUK. The posters covered topics such as Oxygen Suffocation Avoidance and Rescue Systems, Noise Reduction in Shared Environments, Standalone Photovoltaic Systems with MPPT Controllers, and Internet of Things (IoT) applications.

The presentations were evaluated by Smt. J. Jyothsna and Sri N. Sagar Teja Yadav based on technical clarity, originality, innovation, and relevance. The event successfully encouraged students to apply their knowledge creatively while improving their presentation skills.

WATT A QUIZ

Watt-a-Quiz, a fun and engaging event of ENCURSO 2K26, was conducted to provide participants with an enjoyable non-technical competition. The event was coordinated by R. Siva Karthikeya and M. Sharon and was designed to be accessible to all participants, regardless of their technical background.

A total of 4 teams and one M.Tech student participated in the event. The competition was conducted in three rounds, with teams being eliminated based on their performance in each round. The event was conducted under the supervision of Ms. K. Joshi Rani, Assistant Professor(c), who served as the quizmaster and ensured the smooth and fair conduct of the competition.

PHOTOGRAPHY CONTEST

The Photography Contest was organized as a non-technical event of ENCURSO 2K26 to encourage creativity, observation, and artistic expression among students. Coordinated by P. Srinadh, the event provided participants with an opportunity to showcase their perspectives through photography.

Registrations opened on March 25, 2026, and remained open for five days. The contest received 5 registrations from participants across different colleges and localities, with an entry fee of ₹49. Entries were evaluated based on creativity, relevance to the theme, and social media engagement.

One winner was selected and awarded a cash prize of ₹500. Despite the limited participation, the event was successfully conducted and added a creative dimension to the fest, promoting student engagement and artistic talent.

1st Place : K.Kavya (UCEK, JNTUK)

2nd Place : S. Sai (Chaitanya Enginering College)

ENCURSO - 2K26

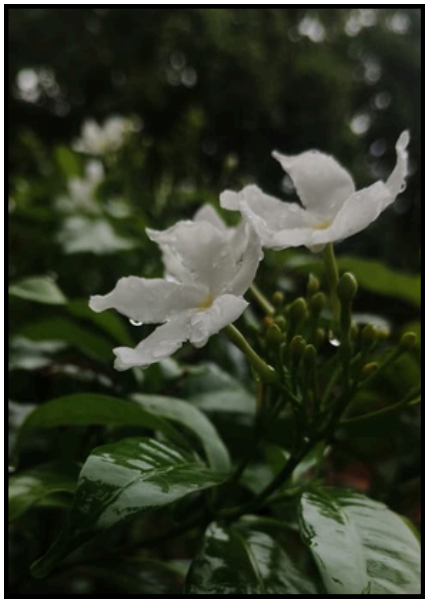
VALEDICTORY CEREMONY

The Electrical and Electronics Engineering (EEE) Department conducted a Valedictory Ceremony on 29th March to honour the success of ENCURSO 2K26 Tech Fest. The event was graced by the presence of faculty members and students, making it a memorable occasion. The ceremony commenced with a warm welcome by M. Snehitha. Followed by Student Coordinator addressing gathering and welcome the Principal Prof. K. Padma Raju for the Valedictory, in the presence of the Convener Dr. K. Venkata Reddy and Faculty Coordinator Dr. T. Murali Mohan student coordinator, namely K. V. V. Sai Sriram, delivered speech reflecting on the successful execution of ENCURSO 2K26 and the valuable experiences gained from it.

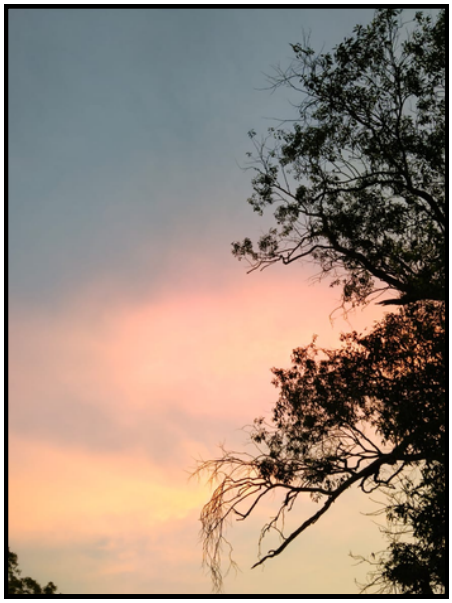
The Principal also addressed the gathering with an inspiring speech, appreciating the efforts of the organizers and highlighting the significance of such technical fests in enhancing students' practical knowledge and innovation. The Principal further distributed certificates to the winners of various technical events, acknowledging their achievements. Additionally, stainless steel bottles were presented as tokens of appreciation to the resource persons, jointly distributed by the Principal and Convener Prof. K. Venkata Reddy

PHOTOGRAPHY

B PRIYA VARSHINI
I B.Tech

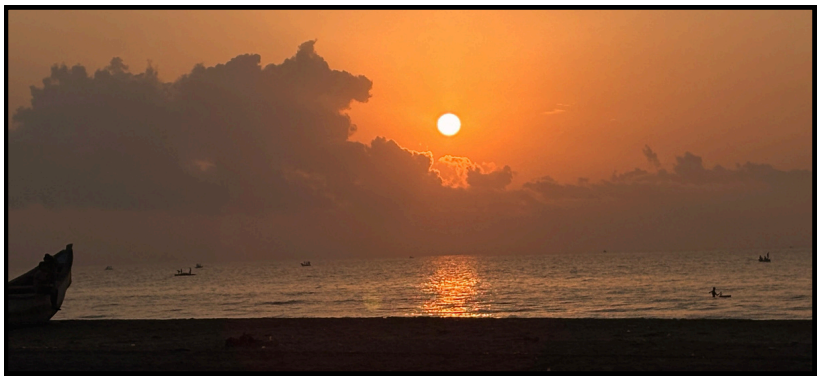


G. Jhansi
II B.Tech

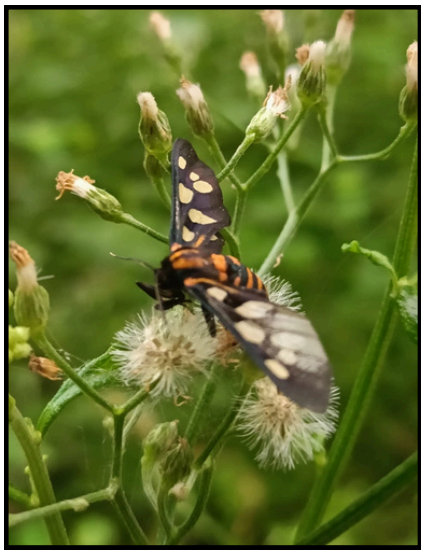


P. HARITHA
III B. Tech

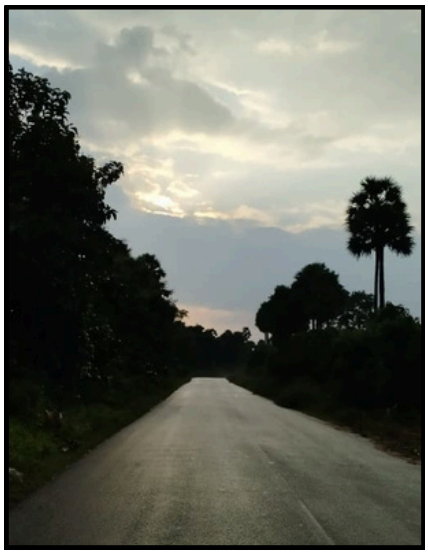
JESSIE AASHINYA
I B.Tech



P MAHITHA TEJASWI
III B.Tech



J. JYOTHSNA
III B.Tech



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The Spark

Igniting Innovations

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