

# QUARTERLY NEWSLETTER

## IEEE STUDENT BRANCH REC BANDA

THE OFFICIAL NEWSLETTER



# IEEE

Student Branch RECB (STB11533)

### ABOUT IEEE STUDENT BRANCH

The IEEE Student Branch at Rajkiya Engineering College Banda stands as a dynamic platform dedicated to cultivating innovation, leadership, and technical excellence among students. Anchored in the mission of advancing technology for societal benefit, the branch actively fosters a culture of exploration and continuous learning beyond academic boundaries.



## EVENTS BETWEEN JULY 2025 TO SEPTEMBER 2025

**Event 1:** Workshop on Hands on Proteus from 8<sup>th</sup> – 11<sup>th</sup> September, 2025

**Event 2:** Workshop on Python Programming and its Application on 11<sup>th</sup> - 12<sup>th</sup> September, 2025

**Event 3:** Engineer's Day Celebration on 15<sup>th</sup> September, 2025

**Event 4:** Student Branch Meeting on 20<sup>th</sup> September, 2025

**Event 5:** IoT Workshop on Tinker CAD on 20<sup>th</sup>-21<sup>th</sup> September, 2025

**Event 6:** Swachhta Pakhwada from 15<sup>th</sup> September– 31<sup>st</sup> October, 2025

**Event 7:** Hands on Practice Workshop on Drone Technology 23<sup>rd</sup> – 26<sup>th</sup> September, 2025

**Event 8:** Hands on Practice Workshop on Drone Technology 23<sup>rd</sup> – 26<sup>th</sup> September, 2025

**Event 9:** Drone competition held on 26<sup>th</sup> September, 2025

**Event 10:** Hands on Practice Workshop on Arduino & Sensors 27<sup>th</sup> – 28<sup>th</sup> September, 2025

**Event 11:** Workshop on DevOps & Cloud, Blockchain, AI Agent from 27<sup>th</sup> to 29<sup>th</sup> September, 2025

## WORKSHOP ON HANDS ON PROTEUS FROM 8 - 11<sup>TH</sup> SEPTEMBER. 2025

The IEEE Student Branch, Rajkiya Engineering College Banda, organized a Workshop on Hands-on Proteus from 8th to 11th September 2025 at Lab-4, commencing at 4:00 PM each day. The workshop aimed to provide participants with practical knowledge of circuit simulation, microcontroller programming, and PCB designing using the Proteus Design Suite. It offered an interactive learning platform where students explored the fundamentals of electronic circuit design and simulation in a real-time environment.

Throughout the four-day session, participants gained insight into designing and testing various electronic circuits, understanding the functioning of microcontrollers, and creating Printed Circuit Boards (PCBs) from schematic diagrams. The hands-on approach enabled students to bridge the gap between theoretical learning and practical implementation, enhancing their technical competence in electronics design and development.

The workshop effectively strengthened students' understanding of circuit behavior and design optimization while encouraging innovation and experimentation. Overall, it was a valuable and enriching experience that helped students build essential skills in electronic system design and simulation using Proteus software.





## WORKSHOP ON PYTHON PROGRAMMING AND ITS APPLICATION ON 11<sup>TH</sup>- 12<sup>TH</sup> SEPTEMBER, 2025

A two-day Workshop on Python Programming and Its Applications was organized by Department of Information Technology in collaboration with IEEE Student Branch, Rajkiya Engineering College Banda, on 11th-12th September 2025 at the Computer Centre. The workshop commenced at 10:30 AM and aimed to equip participants with essential programming knowledge and practical skills in Python—one of the most versatile and in-demand programming languages today.

The primary objective of the workshop was to introduce participants to Python fundamentals, including syntax, data types, control structures, functions, and basic data structures such as lists, tuples, and dictionaries. Hands-on sessions allowed students to develop programming proficiency through real-time coding exercises and debugging tasks. The resource persons also highlighted Python's wide-ranging applications, covering areas like web development using frameworks such as Django and Flask, and data science and analysis through powerful libraries like NumPy, Pandas, and Matplotlib.

The workshop provided an engaging platform for students to gain both theoretical understanding and practical exposure to Python's capabilities. It successfully enhanced participants' technical skills, fostered logical thinking, and encouraged them to explore innovative solutions using Python in real-world applications.



### फोटोपायथन प्रोग्रामिंग वर्तमान डिजिटल युग की महत्वपूर्ण भाषा है: डॉ विभाष यादव



#### ➤ राजकीय इंजीनियरिंग कॉलेज में पायथन प्रोग्रामिंग पर दो दिवसीय कार्यशाला का शुभारम्भ

अंतरा (बौदा, ११) सितम्बर। राजकीय इंजीनियरिंग कॉलेज, अंतरा बौदा में दो दिवसीय पायथन प्रोग्रामिंग कार्यशाला का शुभारम्भ हुआ। जिसका आयोजन सूचना प्रौद्योगिकी विभाग एवं आईईईई-एसटीबी के संयुक्त तत्वावधान में किया गया। कार्यक्रम का शुभारम्भ सूचना प्रौद्योगिकी विभाग अध्यक्ष डॉ. विभाष यादव ने किया। उन्होंने कहा कि पायथन प्रोग्रामिंग वर्तमान डिजिटल युग की एक अत्यंत महत्वपूर्ण भाषा है। यह छात्रों को आर्टिफिशियल इंटेलिजेंस, डेटा

साइंस और मशीन लर्निंग जैसी नई तकनीकों से जोड़ती है। ऐसी कार्यशालाएँ न केवल विद्यार्थियों को ज्ञान प्रदान करती हैं, बल्कि उन्हें आगे और सीखने के लिए प्रेरित भी करती हैं। कार्यशाला के अध्यक्ष डॉ. पुष्पेन्द्र सिंह ने कहा कि इस प्रकार की कार्यशालाएँ छात्रों को व्यावहारिक ज्ञान प्रदान करती हैं और उन्हें तकनीकी क्षेत्र में नवीन विचार अपनाने तथा अपने कौशल को विकसित करने की प्रेरणा देती हैं। यह छात्रों को सोच और नवाचार की दिशा में आगे बढ़ने का अवसर भी प्रदान करती हैं। मुख्य वक्ता के रूप में साइंट प्रो टेक के मुख्य प्रौद्योगिकी अधिकारी रॉहित कुमार उपस्थित रहे। उन्होंने विद्यार्थियों को पायथन प्रोग्रामिंग की विशेषताओं, इसके

व्यावहारिक अनुप्रयोगों और नवीन तकनीकों संभावनाओं के बारे में विस्तार से जानकारी दी। कार्यशाला में सूचना प्रौद्योगिकी, इलेक्ट्रिकल इंजीनियरिंग और मेकेनिकल इंजीनियरिंग शाखा के छात्र-छात्राओं ने भाग लिया। कार्यशाला में संस्थान के संकाय सदस्य अधिजीत सिंह, इन्द्र कुमार, डॉ. ज्ञान सिंह, सोनाली पाण्डेय, अभिषेक सिंह, साधना यादव एवं नेहा सखवार उपस्थित रहे। निदेशक डॉक्टर एसपी शुक्ल ने कहा कि इस प्रकार की कार्यशालाएँ छात्रों के व्यक्तित्व विकास और तकनीकी दक्षता को नई दिशा प्रदान करती हैं। यह ज्ञान और अनुभव उनकी आगे की शैक्षणिक यात्रा को और समृद्ध करेगा।

लोक भारती

प्रादेशिक

### तकनीकी छात्रों ने सीखे पायथन प्रोग्रामिंग के गुर

राजकीय इंजीनियरिंग कॉलेज में पायथन प्रोग्रामिंग पर दो दिवसीय कार्यशाला सम्पन्न

अंतरा (बौदा) राजकीय इंजीनियरिंग कॉलेज, बौदा में पायथन प्रोग्रामिंग विभाग द्वारा आयोजित दो दिवसीय पायथन प्रोग्रामिंग कार्यशाला संपन्न हुई। सूचना प्रौद्योगिकी विभाग अध्यक्ष डॉ. विभाष यादव ने बताया कि इस कार्यशाला के माध्यम से छात्रों ने न केवल पायथन प्रोग्रामिंग की महत्व

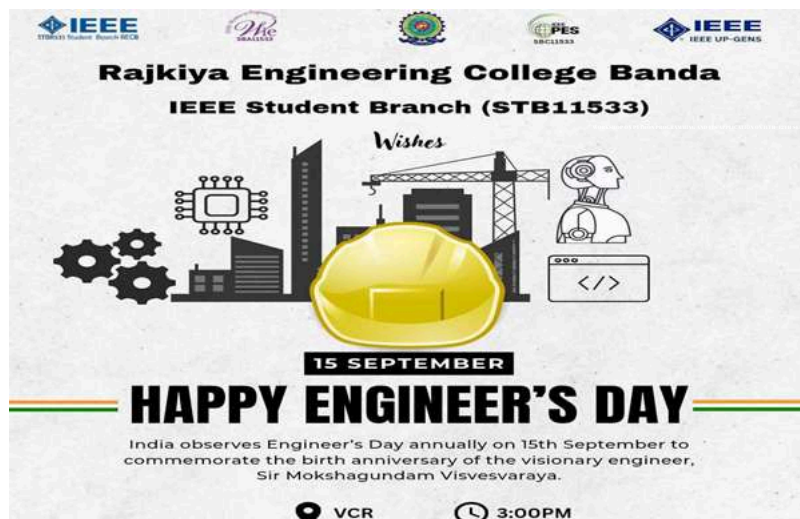


से सम्पन्न कीया इसे नई-नई तकनीकी चुनौतियों से जबरक अनुभवों, कोशल तकनीकों, तथा प्रोब्लम-सॉल्विंग प्रवर्धन के माे से विद्यार्थियों का उन्मुखीकरण करने हुए कहा कि इस प्रकार की कार्यशालाएँ विद्यार्थियों को नई तकनीकों से परिचित करती हैं

और उनके सकोशल विकास में सहायक सिद्ध होती हैं। कार्यशाला में सूचना प्रौद्योगिकी, विद्युत अभियांत्रिकी शाखा के छात्र-छात्राओं ने अपने अनुभव साझा किए। कार्यशाला में संकाय सदस्य अधिजीत सिंह, इन्द्र कुमार सिंह, प्रमोद यादव, डॉ. ज्ञान सिंह, सोनाली पाण्डेय, अभिषेक सिंह, एन नेहा सखवार उपस्थित रहे। संस्थान के निदेशक प्रो एस.पी. शुक्ल ने छात्रों को उनके उज्जल भविष्य के लिए प्रेरित किया।

The IEEE Student Branch, Rajkiya Engineering College Banda, proudly celebrated Engineer's Day on 15th September 2025 at the VCR Hall, beginning at 3:00 PM. The event was organized to commemorate the birth anniversary of Bharat Ratna Sir Mokshagundam Visvesvaraya, one of India's greatest engineers and visionaries, whose contributions laid the foundation for modern engineering and national development.

The event also sought to motivate young engineers by emphasizing the limitless opportunities the field offers for innovation and societal betterment. Participants reflected on Sir Visvesvaraya's legacy and reaffirmed their commitment to uphold his ideals of excellence, discipline, and service to the nation. The celebration concluded with an inspiring message encouraging students to use their technical knowledge and creativity to build a brighter and more sustainable future.



- राजकीय इंजीनियरिंग कॉलेज में इंजीनियर्स डे पर हुआ मल्ल आयोजन
- भारत रत्न एमजी विश्वश्रैया की जयंती को समर्पित रहा कार्यक्रम

अतः (बादा) राजकीय ईजीनियरिंग कलेज में आई.ई.ई.ई. छात्र शाखा, वुमेन इन ईजीनियरिंग और पावर एंड एनर्जी सोसाइटी के संयुक्त तत्वावधान में ईजीनियर्स डे का आयोजन किया गया। यह दिवस भारत रत्न मोक्षगुंडम विश्वेश्वरैया जी जयंती का समर्पित था। इस मौके पर सूचना प्रौद्योगिकी विभाग के विभागाध्यक्ष डॉ. विभाष यादव ने विद्यार्थियों को संबोधित करते हुए कहा, ईजीनियर समाज की तरफ से सच्चे निष्ठा है। हमें तकनीकी का इस्तेमाल सफ़ेद करियर तक सीमित न रखकर, इसे सामाजिक विकास के लिए भी उपयोग करना चाहिए। निष्कर्षक





## STUDENT BRANCH MEETING ON 20<sup>TH</sup> SEPTEMBER, 2025

The IEEE Student Branch, Rajkiya Engineering College Banda, conducted a Student Branch Meeting on 20th September 2025 at the VCR Hall, beginning at 3:00 PM. The meeting served as an interactive platform for members to discuss upcoming events, share ideas, and plan future activities with teamwork, enthusiasm, and a spirit of collaboration.

The primary objective of the meeting was to strengthen organizational coordination and ensure the smooth execution of forthcoming technical and professional events. Members deliberated on strategies for event management, task distribution, and enhancing student participation in IEEE initiatives. The session also emphasized the importance of teamwork, communication, and leadership in building a dynamic and active student community.

Through this meeting, participants gained a clearer understanding of their roles and responsibilities within the branch, fostering a sense of unity and collective purpose. The gathering concluded with a motivational note encouraging members to contribute actively, innovate, and uphold the IEEE spirit of excellence and service. Overall, the meeting reinforced collaboration and proactive engagement as key pillars of the branch's success.



## IOT WORKSHOP ON TINKER CAD ON 20<sup>TH</sup>- 21<sup>TH</sup> SEPTEMBER, 2025

A two-day IoT Workshop on TinkerCAD was successfully organized by the IOTVerse Club in collaboration with the IEEE Student Branch, Rajkiya Engineering College Banda, on 20th–21st September 2025 at the IoT Lab (TF-22) from 2:30 PM to 5:00 PM. The workshop aimed to provide participants with a hands-on introduction to Internet of Things (IoT) concepts using TinkerCAD, a free, browser-based simulation platform.

The sessions focused on building practical skills in circuit design, programming, and prototyping IoT-based applications in a simulated environment. Participants learned how to integrate sensors, microcontrollers, and actuators to develop real-world IoT solutions virtually. The interactive exercises encouraged creativity and problem-solving while helping students understand the fundamentals of embedded systems and connectivity.

Through guided demonstrations and practice sessions, students gained valuable experience in designing and testing smart circuits without physical hardware. The workshop fostered innovation, technical curiosity, and teamwork among participants, preparing them to explore IoT technologies more deeply. Overall, the event proved to be an enriching and informative experience, bridging theoretical knowledge with practical applications in the rapidly evolving field of IoT.





## SWACHHTA PAKHWADA FROM 15<sup>TH</sup> SEPTEMBER – 31<sup>ST</sup> OCTOBER. 2025

The IEEE Student Branch of Rajkiya Engineering College Banda organized Swachhta Pakhwada from 15th September to 31st October 2025, taking a meaningful step towards the vision of a Cleaner India and Better India Day by Day. This initiative aligned with the national spirit of the Swachh Bharat Mission, aiming to spread awareness about cleanliness, hygiene, and sanitation among students and the wider community. The program was conducted at the Student Activity Center (SAC), REC Banda, commencing at 9:00 PM, and witnessed enthusiastic participation from students and volunteers.

The primary objective of Swachhta Pakhwada is to create an intensive, fortnight-long focus on sanitation and cleanliness issues by encouraging active involvement from institutions, organizations, and citizens. Through this initiative, the IEEE Student Branch emphasized the importance of making cleanliness an integral part of daily life rather than limiting it to occasional campaigns. The program highlighted the need for mass participation, promoting responsible waste management, personal hygiene, and clean surroundings.

By fostering awareness and collective responsibility, Swachhta Pakhwada helps sustain the momentum of the Swachh Bharat Mission throughout the year. Such initiatives play a vital role in building a cleaner, greener, and healthier India by reducing sanitation-related diseases and strengthening community well-being.





## HANDS ON PRACTICEWORKSHOP ON DRONE TECHNOLOGY 23 - 26 SEPTEMBER, 2025

A four-day Hands-on Practice Workshop on Drone Technology was successfully organized by the Department of Electrical Engineering and Department of Information Technology in collaboration with the IEEE Student Branch, Rajkiya Engineering College Banda, from 23rd to 26th September 2025 at the Drone Lab (TF-24), commencing at 4:00 PM each day. The workshop aimed to provide participants with a comprehensive and practical understanding of Unmanned Aerial Systems (UAS), focusing on both theoretical foundations and real-world applications of drone technology.

The sessions covered essential topics such as aerodynamics, emphasizing the principles of lift, drag, thrust, and weight to help participants understand flight mechanics. Students also explored the core components of drones, including frames, motors, propellers, Electronic Speed Controllers (ESCs), and batteries. Through guided, hands-on exercises, participants learned to assemble, operate, and troubleshoot drones effectively.

This immersive workshop encouraged problem-solving, innovation, and technical proficiency, allowing students to apply engineering principles to drone design and operation. By blending conceptual learning with live demonstrations, the event successfully enhanced participants' confidence and skills in modern aerial technologies. Overall, it proved to be a valuable and enlightening experience, fostering curiosity and technical excellence in the rapidly evolving field of drone technology.



## DRONE COMPETITION HELD ON 26TH SEPTEMBER, 2025

A thrilling Drone Competition was organized on 26th September 2025 at the Central Ground, Rajkiya Engineering College Banda, by the Department of Electrical Engineering, the Department of Information Technology, and the IEEE Student Branch. The event took place at 2:45 PM as part of a series of drone-related activities conducted from 23rd to 26th September 2025.

The competition aimed to foster innovation, technical excellence, and teamwork among students by challenging them to apply their knowledge of drone design and control in practical scenarios. Participants showcased their custom-built drones, demonstrating flight stability, maneuvering precision, and task-specific performance. The event encouraged students to explore advanced aspects of aerodynamics, control systems, and unmanned aerial technology while enhancing their problem-solving and piloting skills.

Judges evaluated teams based on creativity, technical design, and overall execution. The competition not only highlighted students' engineering capabilities but also promoted collaboration, research, and innovation in the rapidly growing field of drone technology. Overall, the event proved to be an exciting and educational experience, inspiring participants to further explore the limitless possibilities of unmanned aerial systems.





## HANDS ON PRACTICE WORKSHOP ON ARDUINO & SENSORS 27 – 28 SEPTEMBER, 2025

A two-day Hands-on Practice Workshop on Arduino & Sensors was organized by the IoT Verse Club in collaboration with the IEEE Student Branch, Rajkiya Engineering College Banda, from 27th to 28th September 2025 at the IoT Lab (TF-22), from 2:30 PM to 5:30 PM. The workshop aimed to provide participants with practical experience and foundational knowledge in using Arduino boards and sensors for developing interactive electronic projects.

During the sessions, participants learned about Arduino architecture, circuit connections, and sensor integration, gaining insights into how hardware and software work together in real-world applications. Through guided demonstrations and hands-on practice, students explored how various sensors—such as temperature, motion, and light sensors—can be used to collect data and control electronic systems.

The workshop emphasized problem-solving, creativity, and innovation, enabling participants to design and implement their own mini-projects using Arduino. It effectively bridged theoretical learning with practical experimentation, fostering technical curiosity and confidence among students. Overall, the event proved to be an engaging and skill-building experience, empowering participants to explore the exciting world of embedded systems and automation.

**IoTVerse Club**  
in Collaboration with  
**IEEE Student Branch (STB11533)**  
Rajkiya Engineering College Banda  
Organises  
**2 Days Workshop on  
Hands on Practice  
Session on Arduino &  
Sensors**

27 - 28 SEP, 02:30 PM - 05:00 PM  
IoT Lab (TF-22)  
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## WORKSHOP ON DEVOPS& CLOUD, BLOCKCHAIN, AI AGENT FROM 27<sup>TH</sup> TO 29<sup>TH</sup> SEPTEMBER, 2025

A three-day Workshop on DevOps & Cloud, Blockchain, and AI Agents was organized by the Web Development Club, in collaboration with the IEEE Student Branch and the Training and Placement Cell, Rajkiya Engineering College Banda, from 27th to 29th September 2025 at the VCR Hall, from 5:30 PM to 7:30 PM. The workshop served as a comprehensive technical event designed to equip participants with both theoretical knowledge and practical insights into some of the most transformative technologies shaping the modern digital world.

The sessions covered key concepts of DevOps and Cloud Computing, focusing on automation, continuous integration, and scalable deployment environments. The Blockchain module introduced participants to the fundamentals of decentralized systems, smart contracts, and secure data exchange. In the AI Agents segment, attendees explored the working of intelligent agents and their integration into modern applications for automation and decision-making.

Through demonstrations, discussions, and hands-on activities, participants developed a multidisciplinary perspective on how these technologies interconnect to build modern, intelligent, and secure systems. The workshop was highly informative and empowering, fostering innovation and preparing students for emerging opportunities in advanced technology domains.





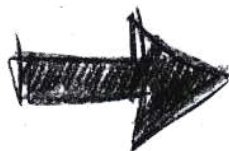
## CLOSING NOTE

As we conclude this edition of the newsletter, we extend our heartfelt appreciation to all faculty members, students, and departments whose dedication and active participation continue to drive the growth and excellence of Rajkiya Engineering College Banda. The events, workshops, and initiatives highlighted in this issue reflect our collective commitment to innovation, learning, and community engagement. We look forward to many more milestones and achievements in the coming months.

Together, we remain inspired to create, collaborate, and contribute to a brighter and more dynamic academic environment.

*Thank You*

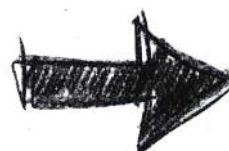
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