QUARTERLY NEWS LETTER IEEE STUDENT BRANCH REC BANDA

THE OFFICIAL NEWSLETTER





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.



MESSAGE FROM DIRECTOR

It is truly heartening to witness the vibrant growth and spirited involvement of the IEEE Student Branch at Rajkiya Engineering College Banda. In today's transformative era, where technology shapes every corner of society, the role of student-led initiatives in fostering innovation and professional awareness cannot be overstated.

I commend the student team for their thoughtful execution of events, workshops, and outreach activities that go far beyond routine academics. Their energy and vision reflect the spirit of future-ready engineers.

May the IEEE Student Branch at REC Banda continue to evolve as a beacon of excellence, inspiring young minds to contribute with skill, heart, and a sense of responsibility.

Prof. Sheo Prasad Shukla Director, REC Banda



MESSAGE FROM BRANCH COUNSELOR

It is a moment of immense pride and fulfillment to serve as the Branch Counselor of the IEEE Student Branch at Rajkiya Engineering College Banda. IEEE has proven to be much more than just a technical society—it is a transformative platform that equips our students with the vision, skills, and global perspective needed to thrive in today's dynamic world of technology.

At REC Banda, our student branch has been actively fostering a culture of innovation, inquiry, and collaboration.

I extend my heartfelt appreciation to all the dedicated student members and office bearers whose passion and hard work bring our branch to life. May this magazine stand as a celebration of our journey so far and a beacon for future endeavors.

Dr. Pushpendra Singh Branch Counselor



MESSAGE FROM – PES ADVISOR

Itlt is a matter of great honor to serve as the Advisor of the IEEE Power & Energy Society (PES) Chapter at Rajkiya Engineering College Banda. The PES Chapter has emerged as a focused and dynamic platform where students explore the critical domains of electrical power, energy systems, and sustainable technology.

I commend the student leadership for their enthusiasm, professionalism, and commitment to excellence. Their efforts reflect the spirit of IEEE—advancing technology for the benefit of humanity.

I look forward to witnessing the continued growth of this chapter as it empowers the next generation of energy leaders.

Dr. Mohd. Tauseef Khan Advisor – IEEE PES Chapter



MESSAGE FROM – WIE ADVISOR

It gives me immense pleasure to be associated as the Advisor of the Women in Engineering (WIE) Affinity Group at Rajkiya Engineering College Banda. In a time when inclusivity and diversity are key to sustainable progress, the WIE chapter stands as a powerful initiative to uplift, support, and celebrate the presence of women in the field of engineering and technology.

The WIE Affinity Group at REC Banda is more than a platform—it is a growing community that encourages young female engineers to explore, express, and excel

I am proud of the dedication shown by our team in creating opportunities that not only empower individuals but also inspire collective growth. Together, we are shaping a future where every aspiring woman in STEM feels seen, heard, and supported.



Mr. Abhijeet Singh Advisor – WIE Affinity Group

MESSAGE FROM – CHAIRPERSON

Leading the IEEE REC Banda student branch has been a journey of immense learning, leadership, and collaboration. Introducing this newsletter fills me with a sense of accomplishment, as it represents the collective spirit of our dynamic team.

This edition features our workshops, hackathons, and success stories, reflecting the passion of every volunteer who worked behind the scenes. I am deeply grateful to our director, counsellor, and advisors for their constant guidance. To my fellow students: let this newsletter remind us of what we can achieve when we work together. Let us continue to push boundaries and engineer a better future.





EVENTS BETWEEN JANUARY 2025 TO MARCH 2025

Event 1: A Seminar on power electronics system for precision agriculture and climate farming operations on 6th January, 2025

Event 2: Workshop on Drone Technology on 21th-22th February , 2025

Event 3: Webinar on Gate Mentorship, 05th March, 2025.

Event 4: Celebration of International Women's Day on 07th-08th March, 2025.

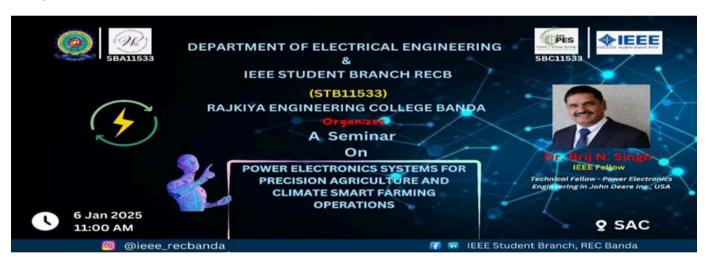
Event 5: Webinar on Women Empowerment and Leadership on 08th March, 2025.

SEMINAR ON POWER ELECTRONICS SYSTEMS FOR PRECISION AGRICULTURE AND CLIMATE SMART FARMING OPERATIONS ON 6 JANUARY 2025

The IEEE Student Branch in collaboration with the Department of Electrical Engineering (NBA Accredited), of Rajkiya Engineering College Banda, organized a seminar on Power Electronics Systems for Precision Agriculture and Climate Farming Operations on 6 January 2025.

Dr. Brij N. Singh, an IEEE Fellow and Technical Fellow in Power Electronics Engineering at John Deere (USA), brings decades of expertise in advanced power electronics and smart agricultural systems.

The session aimed to explore and demonstrate how advanced power electronics technologies can significantly enhance agricultural productivity, optimize resource usage, improve sustainability, and support autonomous farming practices. Held at the Student Activity Centre (SAC) at 11:00 AM, the seminar provided students with valuable insights into the emerging intersection of power electronics and smart agriculture, highlighting its growing relevance in modern farming ecosystems.





पावर इलेक्ट्रॉनिक्स सिस्टम आधारित सटीक कृषि और जलवायु, स्मार्ट फार्मिंग पर सेमिनार संपन्न

यू एस में पावर इलेक्ट्रॉनिक्स इंजीनियरिंग के टेक्निकल फेलो डॉ बृज सिंह ने कृषि में झुइव सिस्टम, स्मार्ट सेंसर के उपयोग को समझाया

अतरां (बांदा)। राजकांय इंजीनियरिंग कालेज के विधुत अभियांजिकी विभाग के तत्यावरणन में सोमवार के दिन पावर इंलेक्ट्रीनिक्स सोमवार के दिन पावर इंलेक्ट्रीनिक्स सोमवार के दिन पावर इंलेक्ट्रीनिक्स सिस्टम आधारित सटीक कृषि और जलकायु समार्ट फर्मिंग संचालन पर एक दिवसीय सीमनार का आयोजन किया गया। जिसका उद्देश्य छात्रों को पावर इलेक्ट्रीनिक्स के नवीनतम अनुप्रयोगों और सटीक कृषि में उनकी भूमिका के बारे में जानकारी प्रदान करना था। सीमनार का नेतृत और करना था। सीमार कर सेट्रीनिक्स रूपों और इंडर्स जॉन डेरेन करना रूपों हैं हिस्स मार्चांथ भी मार्चांग भी मार्चांग भी मार्चांग भी प्रवास मार्चांग भी मार्चांग

कार्यक्रम के समन्वयक डॉ. पुष्पेंद्र सिंह प्रांरिभक सत्र की थीम पर चर्चा की और इसके महत्व को समझाया।



डॉ. बिज एन सिंह ने अपने व्याख्यान में बताया कि सटीक कृषि और जलवायु स्मार्ट फार्मिंग के लिए कैसे पावर इलेक्ट्र्रिनिक्स सिस्टम का उपयोग ऊर्जा की खपत को कम करते हुए कृषि उत्पादकता को बढ़ाने में किया जा सकता है। उन्होंने सटीक कृषि में डूइव सिस्टम, त्मार्ट सेंसर और ऊर्जा-ब्रुगल समाधानों के उपयोग पर फ्लाश डाला। उन्होंने यह भी समझाया कि कैसे इन तकनीकों का उपयोग जलवायु परिवर्जन के भा सामझा की कैसे इन तकनीकों का उपयोग जलवायु परिवर्जन के भा सामझा की कैसे इन तकनीकों का उपयोग जलवायु परिवर्जन के भा सामकता है। उन्होंने बताया कि विभिन्न रोबोटिक्स-आधारित उपकरणों और स्मार्ट मशीनों का

उपयोग आधुनिक कृषि के पविषय को और अधिक उन्नत कैसे बना सकते हैं। छात्रों को इस क्षेत्र में नए प्रोजेक्ट्स बनाने और शोध कार्यों के माध्यम से नवाबार में योगदान देने के माध्यम से नवाबार में योगदान देने के लिए प्रोजेक्ट्स किया। संस्थान के निरोक्त प्रोफेसर एसपी शुक्ला ने कहा कि खें बृज सिंह के हारा सेमिनार में बताए गए तकनीकी जा का उपयोग छात्र नवाबार के माध्यम से करें। कार्यक्रम में डॉ. मोहम्मद तीसीफ खान, डॉ. अनुराग चीहान, डॉ. विभाष वारद एवं विदु ज प्रीम्सात्रिकी के सर्वेश कुमार ने छात्रों को प्रेरित किया, कहा कि वे इस सत्र में रही छी गई बतों को अपने प्रोजेक्ट्स और शोध कार्यों में लागू करें।

WORKSHOP ON DRONE TECHNOLOGY ON 21 AND 22 FEBRUARY 2025

A workshop on Drone Technology was organized 21 and 22 February 2025 by IEEE Student Branch in collaboration with Department of Electrical Engineering to provide students with an in-depth understanding of modern drone systems, their diverse applications, and their growing significance in shaping the future of technology and innovation.

The workshop was conducted at the Drone Lab and witnessed enthusiastic participation from students across various academic years. The session was led by final-year students, who shared their technical expertise, project experiences, and hands-on knowledge, making the learning environment both relatable and interactive.

During the session, participants were introduced to the fundamentals of drone architecture, including flight dynamics, control mechanisms, sensors, communication systems, and safety protocols. The speakers also discussed a wide range of real-world applications of drone technology, such as aerial surveillance, agriculture monitoring, disaster management, logistics, mapping, photography, and defense operations, highlighting the growing societal and industrial impact of unmanned aerial systems.

A key highlight of the workshop was the hands-on simulation and demonstration segment, where students gained practical exposure to drone control, navigation, and functionality. This interactive component significantly enhanced the learning experience by allowing participants to visualize drone behavior in different scenarios and understand operational challenges in a controlled







WEBINAR ON GATE MENTORSHIP 05 MARCH 2025

The IEEE Student Branch, Rajkiya Engineering College Banda, successfully organized a GATE Mentorship Webinar with the aim of supporting and guiding engineering students in their preparation for the Graduate Aptitude Test in Engineering (GATE). The webinar was designed to provide strategic insights into GATE preparation while motivating students to approach the examination with clarity and confidence.

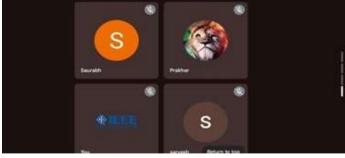
The session featured Aditya Pratap Singh, GATE AIR 501 in Electrical Engineering (2024), who is currently working as an Operation and Maintenance Engineer (Technical Services) at Indian Oil Corporation Limited (IOCL), WRPL Mundra, Gujarat. Drawing from his academic achievements and professional experience, the speaker shared valuable perspectives on balancing conceptual understanding with exam-oriented preparation.

The webinar covered essential aspects such as GATE examination patterns, subject-wise preparation strategies, time management techniques, and effective resource planning. The speaker also shared his personal preparation journey, highlighting common challenges faced by aspirants and practical methods to overcome them. An interactive question-and-answer segment allowed participants to clarify their doubts related to preparation approaches, revision strategies, and career opportunities after GATE.

Through this session, students gained a strong foundational understanding of the GATE examination and its significance for higher education and public sector opportunities. The event also encouraged informal interaction and networking, creating a motivating learning environment for all attendees.

The webinar was conducted in online mode on Wednesday, 05 March 2025, at 6:00 PM, and received enthusiastic participation from students.







CELEBRATION OF INTERNATIONAL WOMEN'S DAY ON 07-08 MARCH 2025

Rajkiya Engineering College Banda celebrated International Women's Day with a vibrant and inspiring two-day event organized by the Department of Electrical Engineering in collaboration with the IEEE Student Branch on 7th and 8th March 2025. The celebration aimed to highlight the importance of gender equality, women empowerment, and leadership, while honoring the achievements and contributions of women across diverse fields of society and technology.

On 7th March 2025, a series of engaging on-campus activities were conducted at the VCR Hall at 12:30 PM, creating an atmosphere of learning, appreciation, and collective reflection. The activities included a quiz competition, a documentary presentation focusing on women's journeys and struggles, and a cake-cutting ceremony, symbolizing unity and recognition of women's accomplishments. The event witnessed active participation from students and faculty members, encouraging meaningful discussions on inclusivity and equal opportunities in academia and professional life.

As a continuation of the celebration, a Women Empowerment and Leadership Webinar was organized on 8th March 2025 in online mode via Google Meet at 11:30 AM. The webinar focused on inspiring students by addressing the evolving role of women in leadership, engineering, and society, and emphasized the importance of confidence, resilience, and continuous learning. Overall, the International Women's Day celebration successfully fostered awareness, inspiration, and dialogue, reinforcing the institution's commitment to promoting a respectful, inclusive, and empowering campus environment for all.









WEBINAR ON WOMEN EMPOWERMENT AND LEADERSHIP ON 08 MARCH 2025

The IEEE Student Branch at Rajkiya Engineering College Banda held a successful webinar titled "Women Empowerment and Leadership" on March 8, 2025, in celebration of International Women's Day. The goal of the session was to inspire and empower women by providing them with the confidence, knowledge, and leadership skills essential for success in academic, professional, and social arenas.

We were privileged to have Dr. Shweta Tamrakar, Assistant Professor of Chemistry at PMCOE Government PG College, Satna, as our esteemed speaker. Drawing from her rich academic background and personal experiences, she offered valuable insights into the changing dynamics of women in leadership roles. Dr. Tamrakar emphasized the significance of resilience, self-belief, and a commitment to continuous growth.

During the informative discussions, we tackled the various challenges women often encounter in leadership positions and explored effective strategies to navigate them. Key topics included different leadership styles, personal branding, the importance of networking, decision-making processes, and the need for inclusive, supportive environments for emerging leaders. Dr. Tamrakar also underscored the vital role of mentorship and lifelong learning in cultivating effective and impactful leaders.

The webinar, held online at 11:30 AM, saw enthusiastic participation from students, who found the session both inspiring and thought-provoking. Overall, the event delivered a powerful message about women's empowerment and leadership, motivating participants to pursue excellence and leadership with confidence and intention.







IEEE REC BANDA TEAM FOR SESSION 2025-26

IEEE Student Branch REC Banda team for session 2025-26.

Post	Name	Year/Branch	Membership Id	Moblie No.
Chairperson	Mr. Vaibhav Chaudhary	3rd / EE	99926103	8171141324
Vice-Chairperson	Mr. Rahul Kumar	3rd / EE	100934112	9548197348
Secretary Treasurer Webmaster	Mr. Manas Singh Mr. Anubhav Agarwal	2nd / EE 2nd / EE	99926078 100950891	6261281318 7307537343

IEEE Power and Energy Society REC Banda team for session 2025-26.

Mr. Saurabh Yadav	Year/Branch	Membership Id	Moblie No. 9580725225				
	3rd / EE	99924187					
Mr. Sarthak Gupta	3rd / EE	100934131	7355194809				
Mr. Aditya Ratan Mr. Deepak Kumar Mr. Prakhar Maurya	3rd / EE 2nd / EE 2nd / EE	99927086 100187291 100951258	8303623829 9628419441 7800399718				
					Mr. Saurabh Yadav Mr. Sarthak Gupta Mr. Aditya Ratan Mr. Deepak Kumar	Mr. Saurabh Yadav 3rd / EE Mr. Sarthak Gupta 3rd / EE Mr. Aditya Ratan 3rd / EE Mr. Deepak Kumar 2nd / EE	Mr. Saurabh Yadav 3rd / EE 99924187 Mr. Sarthak Gupta 3rd / EE 100934131 Mr. Aditya Ratan 3rd / EE 99927086 Mr. Deepak Kumar 2nd / EE 100187291

IEEE Women in Engineering Society REC Banda team for session 2025-26.

Post Chairperson	Name	Year/Branch	Membership Id 99098608	Moblie No. 7052001270
	Miss. Stuti Singh	3rd / EE		
Vice-Chairperson	Mr. Samarth Chaubey	2nd/EE	100973683	8601950070
Secretary	Miss. Akriti Maurya	1st / EE	100983185	7754916009
Treasurer	Miss. Prakriti Raj	1st / EE	1009830171	8528324835
Webmaster	Miss. Harshita Kushwaha	1st / EE	100983112	9198781256

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 IEEE. 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.



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