



Government Polytechnic Lakhisarai

Department of Electrical Engineering

SPARK



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vision

TO BE A STRONG
INFLUENCE IN
PREPARING THE NEXT
GENERATION OF
ELECTRICAL
PROFESSIONALS AND
TO IMPROVE THE
ABILITY OF STUDENTS
TO ACTIVELY
PARTICIPATE IN THE
WELL BEING OF
SOCIETY.

Mission

M1- TO PROVIDE A
HIGH QUALITY AND
PRACTICAL EDUCATION
THAT EQUIPS
STUDENTS WITH THE
ESSENTIAL SKILLS AND
KNOWLEDGE FOR
SUCCESS IN FIELD OF
ELECTRICAL
ENGINEERING.
M2- COMMITTED TO
CREATE A FRIENDLY
PLACE FOR LEARNING ,
ENCOURAGE NEW AND
CREATIVE IDEAS.
M3-- TO GET STUDENTS
READY TO HANDLE
THE CHANGES AND
CHALLENGES IN THE
ELECTRICAL
ENGINEERING FIELD.

It gives me immense pleasure to launch this edition of the newsletter SPARK from the Department of Electrical Engineering at Government Polytechnic, Lakhisarai. A departmental newsletter is not just a collection of articles; it is a vibrant reflection of the academic excellence, creative talents, and technical milestones achieved by our students and faculty. The field of Electrical Engineering is the driving force behind global modernization, industrial growth, and the ongoing renewable energy revolution. At Government Polytechnic, Lakhisarai, our mission is to equip our students with robust technical competencies and practical problem-solving skills that align with these fast-evolving global industries. Through a blend of rigorous academics, well-equipped laboratory training, and active industry interaction, we ensure our young engineers are prepared to lead and innovate. I extend my heartfelt congratulations to the Head of the Department, the dedicated faculty members, and the enthusiastic editorial team for their tireless efforts in bringing this newsletter to fruition. To our students, I encourage you to keep pushing your boundaries, embrace curiosity, and strive for excellence in all your professional endeavors.

Happy reading!

Principal

Government polytechnic lakhisarai

FROM THE DESK OF EDITORS

It gives me immense pleasure and pride to present the latest edition of the Electrical Engineering Department Newsletter, Government Polytechnic Lakhisarai. This newsletter captures the academic achievements, technical activities, innovative projects, and vibrant events of our department during the academic session. Our students have actively participated in workshops, seminars, projects, industrial visits, skill-development programmes, sports, and cultural activities, reflecting their enthusiasm and dedication. The newsletter provides a platform to celebrate these accomplishments and highlight the collective efforts of our students and faculty. I sincerely thank our respected Principal, Head of the Department, faculty members, technical and administrative staff, and students for their valuable support and contributions. I hope this edition inspires our students to pursue excellence, strengthen their technical skills, and contribute meaningfully to society.

Warm Regards,

Neha Kumari

Editor

Department of Electrical Engineering
Government Polytechnic Lakhisarai



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Nayee Ummid: A Better Tomorrow



The “Nayee Ummid: A Better Tomorrow” programme was organized at Government Polytechnic Lakhisarai on 25 July 2024 in the institute’s auditorium. The programme aimed to guide students in dealing with the challenges and pressures of modern life with confidence and a positive outlook. The session began with a welcome address by Principal Dr. R. K. Ranjan, who warmly welcomed the guests and motivated students to face challenges with determination and resilience. Shri B. K. Arvind Ji, an eminent speaker from the Brahma Kumaris institution, delivered an insightful talk on various challenges faced by students and ways to overcome them. He encouraged students to develop a positive mindset, self-confidence, and inner strength. Sister Rita Ji, the distinguished guest, shared valuable insights on maintaining balance and adapting positively to the changing social environment. The interactive session provided students with meaningful guidance for their personal and academic development. The programme inspired students to look towards the future with hope, confidence, and a constructive attitude. The event concluded with a vote of thanks by the coordinator of “Nayee Ummid: A Better Tomorrow.” Faculty members and staff of the institute were present and actively participated in the programme.



Yoga Dialogue Programme – Nayee Ummid: A Better Tomorrow



A Yoga Dialogue Programme was organized at Government Polytechnic Lakhisarai on 26 July 2024 under the initiative “Nayee Ummid: A Better Tomorrow.” The programme was held in the institute auditorium with Shri Praveen Kumar Tevatia, Ex-MARCOS Commando, as the keynote speaker. The programme commenced with a welcome address by Principal Dr. R. K. Ranjan, who encouraged students to face life’s challenges with courage, discipline, and determination. Shri Tevatia interacted with the students and shared valuable insights on overcoming difficulties and developing mental strength. He also shared his experiences of the 26/11 Mumbai terrorist attacks, offering students a powerful message on courage, resilience, and service to the nation. His inspiring interaction left a deep impression on the students and faculty members. He emphasized the importance of maintaining physical fitness and mental balance in everyday life. Towards the end of the session, students were guided through various yoga asanas and encouraged to make yoga a regular part of their daily routine. The programme included an engaging question-and-answer session in which students actively participated. Ms. Sakshi Sinha, Programme Coordinator, delivered the vote of thanks. The event successfully inspired students to embrace yoga, discipline, fitness, and a positive approach towards life.

Startup Outreach Programme



A Startup Outreach Programme was organized at Government Polytechnic Lakhisarai on 26 July 2024 to encourage entrepreneurship and innovation among students. The programme aimed to create awareness about startup opportunities and develop an entrepreneurial mindset among young learners. Students were introduced to the importance of innovation, creativity, problem-solving, and self-employment. The session highlighted the opportunities available for students who aspire to transform their ideas into successful ventures. Participants gained valuable insights into developing innovative ideas and identifying solutions to real-world problems. The programme also encouraged students to explore entrepreneurship as an alternative and rewarding career path. An interactive session provided students with an opportunity to ask questions and share their innovative ideas. Faculty members motivated students to develop confidence, take initiative, and embrace new challenges. The event created an inspiring environment for learning, creativity, and entrepreneurial thinking. Overall, the programme successfully encouraged students to think innovatively, create opportunities, and become future job creators.

78th Independence Day Celebration & Merit Prize Distribution



The 78th Independence Day was celebrated with great enthusiasm and patriotic spirit at Government Polytechnic Lakhisarai on 15 August 2024. The programme commenced with the hoisting of the National Flag, followed by the National Anthem and patriotic activities. The occasion provided an opportunity to remember the sacrifices of our freedom fighters and celebrate the values of unity, freedom, and national pride. A Merit Prize Distribution Ceremony was also organized to recognize and encourage meritorious students for their outstanding academic performance. The deserving students were felicitated for their dedication, hard work, and achievements. The awards motivated students to pursue excellence and set higher goals in their academic journey. Faculty members appreciated the achievements of the students and encouraged them to continue their efforts. Students and staff actively participated in the celebrations, making the occasion memorable and inspiring. The programme fostered a sense of patriotism, achievement, and healthy competition among the students. The event concluded with best wishes to all the awardees and a renewed commitment to contributing towards the progress and development of the nation.

Smart Bihar Hackathon 2024 Organized at Government Polytechnic Lakhisarai



A grand three-day “Smart Bihar Hackathon” was organized at Government Polytechnic Lakhisarai from 2 to 4 September 2024, under the direction of the Department of Science, Technology and Technical Education, Government of Bihar, Patna, and under the supervision of IIT Patna. The programme aimed to encourage students to apply their technical skills, creativity, and innovative ideas to develop solutions that could benefit society and industry. Students from six polytechnic institutions—Lakhisarai, Jamui, Sheikhpura, Munger, Bhagalpur, and Banka—participated enthusiastically in the hackathon. The central theme focused on using electric vehicles to develop innovative solutions in areas such as water resources, electricity, healthcare, education, transportation, and logical management. The event was inaugurated by the principals and representatives of the participating institutions through the ceremonial lighting of the lamp. The guests were warmly welcomed by the Principal of Government Polytechnic Lakhisarai, Dr. Rajesh Kumar Ranjan. The Chief Guest, Shri Udayan Kumar Mishra, Director, Department of Science, Technology and Technical Education, Bihar, addressed the participants online and encouraged them to work with creativity and dedication. Dr. D. Pradhan from IIT Patna provided technical guidance and important directions for project development. The hackathon provided students with an excellent platform to collaborate, innovate, solve real-world problems, and enhance their technical and entrepreneurial skills. The event successfully promoted a culture of innovation, teamwork, and technology-driven problem-solving among the participating students.