



POTENTIA



Volume 5 Issue 2

Department of Electrical & Electronics Engineering
Bhoj Reddy Engineering College for Women

Newsletter
July - December 2023



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EEE Newsletter



Vision, Mission

Program Education Objectives (PEO's) & Program Specific Outcomes (PSO's)

Vision

To develop effective and ethical young women graduates in Electrical and Electronics Engineering for strengthening the society.

Mission

- To provide innovative electrical techniques that contribute to the socio-economic growth with values of compassion and responsibility.
- To imbibe overall development of electrical women engineers towards leading fruitful lives.
- To create a transformative educational experience for students focused on multi-disciplinary knowledge, leadership, and entrepreneurship.
- To impart application-oriented knowledge and inculcate analytical thinking to solve technological problems in the industry.

Program Education Objectives (PEO's)

PEO I: Exhibit strong knowledge in basic sciences and electrical engineering enabling them to analyse, design and provide solutions for energy related complex problems by applying appropriate techniques.

PEO II: Demonstrate their technical, communication and leadership skills in professional environment or as entrepreneurs with social responsibility.

PEO III: Develop ethical values and aptitude for life-long learning that enables them to stay abreast with latest technology needed for successful professional career.

Program Specific Outcomes (PSO's)

PSO I: Facilitate technical solutions for different power issues to maintain the stability and reliability of power systems.

PSO II: Understand the computational tools/methods for designing, analysing and controlling the various electrical drives, power electronic converters used in industry.

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An Industrial visit to Bharat Heavy Electricals Limited (BHEL) was organized by the EEE department of Bhoj Reddy Engineering College for Women on 26 July 2023, with 45 numbers of II EEE BTech students and 6 staff members (1. S Deepti, Associate Professor, HOD-EEE, 2. R Manju Bhargavi, Associate Professor, 3. S Asha Kiranmai, Associate Professor, 4. S Mayuri, Assistant Professor 5. K Rajamani, Lab Assistant and 6. K Kumar Raja, Lab Assistant). The research and development labs at BHEL were particularly fascinating for the students. They were exposed to ongoing projects and research initiatives aimed at developing new and improved products and solutions. The interaction with the research team provided the students with a deeper understanding of the importance of continuous innovation in the field of engineering.



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Orientation and Familiarization: The program begins with orientation sessions that introduce students to the college's facilities, campus layout, and key administrative personnel. The Program helps newcomers to feel more comfortable and confident navigating their new environment.

Academic Guidance: First-year students are given an overview of the B.Tech curriculum, course structure, and academic expectations on 1 & 2 September 2023 in BRECW during their orientation program. They learn about the importance of time management, study skills, and resources available for academic support.

The induction program for first-year B.Tech students in an engineering college is a crucial and exciting initiation into their academic journey. This program is meticulously designed to serve multiple purposes, ensuring a smooth transition into college life and setting the foundation for a successful academic career.



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The President of Arts and Crafts's Club, K Deepthi IV CSE B, took center stage to deliver a captivating speech that left the audience enthralled. With poise and passion, she shared the club's vision, mission, and goals. Her speech highlighted the club's commitment to nurturing artistic talents, fostering inclusivity, and empowering students through the performing arts. Accompanying her speech was a visually stunning presentation that showcased the club's achievements, upcoming projects, and a sneak peek into the exciting activities lined up for the year.



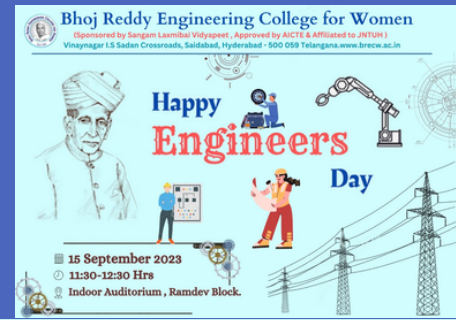
Date: 05 September 2023

Event Venue: Indoor Auditorium, Ramdev Block

Time: 09:45 to 12:30



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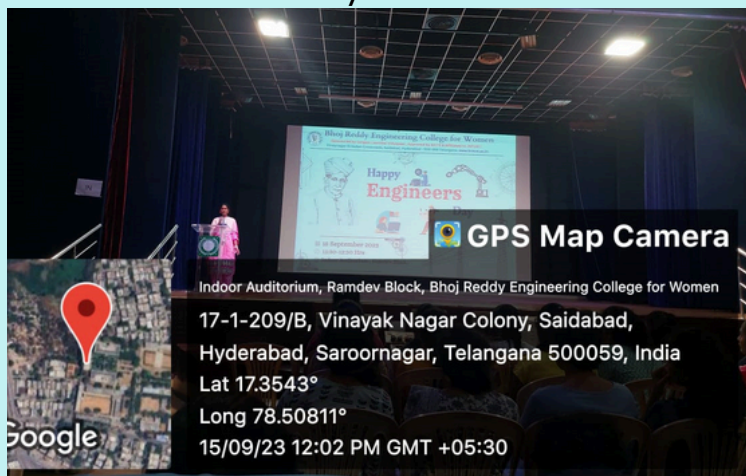
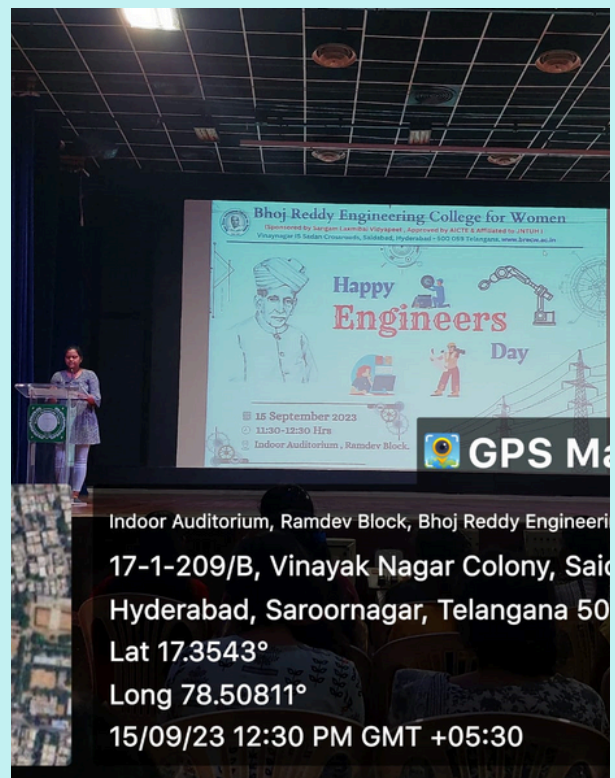
Engineer's Day is a special occasion celebrated annually to honor the contributions of engineers to society. This day typically falls on different dates in various countries, but it is often observed on September 15th, in memory of Sir Mokshagundam Visvesvaraya, a renowned Indian engineer, and statesman. Engineers play a pivotal role in shaping the world we live in, as they innovate, design, and create solutions that address complex challenges across various fields, from technology and infrastructure to healthcare and environmental sustainability. Engineer's Day serves as a reminder of the invaluable work done by engineers and their tireless efforts to improve our quality of life. It is a time to recognize their accomplishments, inspire future generations to pursue careers in engineering, and promote the importance of technological advancement for the betterment of society.

Date: 15 September 2023

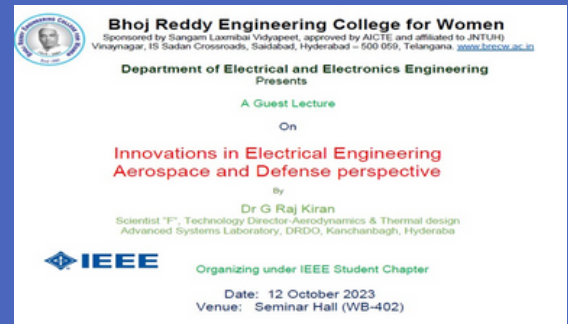
Event Venue: Indoor Auditorium

Ramdev Block

Time: 11.30 to 12:30



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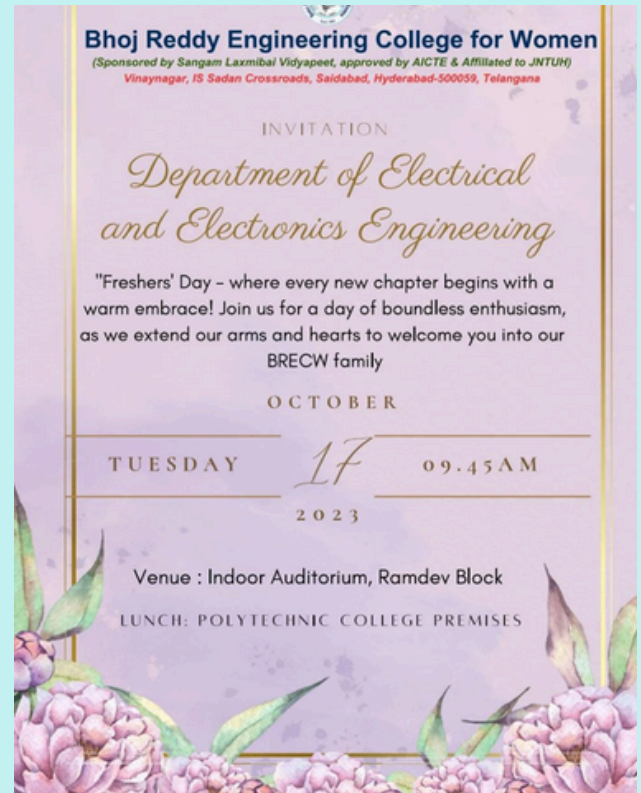
The EEE Department organized a Guest Lecture on “Innovations in Electrical Engineering – Aerospace and Defense perspective” for II, III & IV B Tech EEE students on 12 October 2023, Guest Lecture was scheduled from 10:30 to 12:30 Hrs. The speaker was Dr G Rajkiran, Scientist “F”, Technology Director- Aerodynamics & Thermal design, Advanced Systems Laboratory and an accomplished scientist with over 20 years of experience in the DRDO. The lecture was attended by II, III and IV BTech students and faculty members from the EEE department. The lecture aimed to shed light on the latest technological advancements in the field of electrical engineering as they relate to aerospace and defense applications.

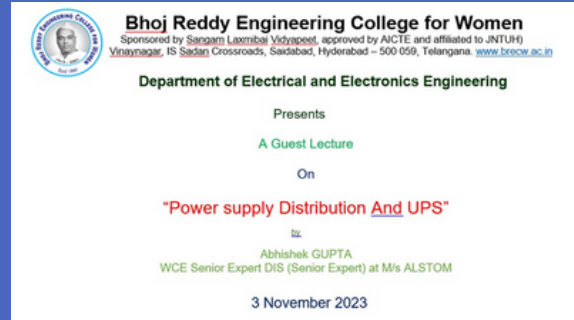


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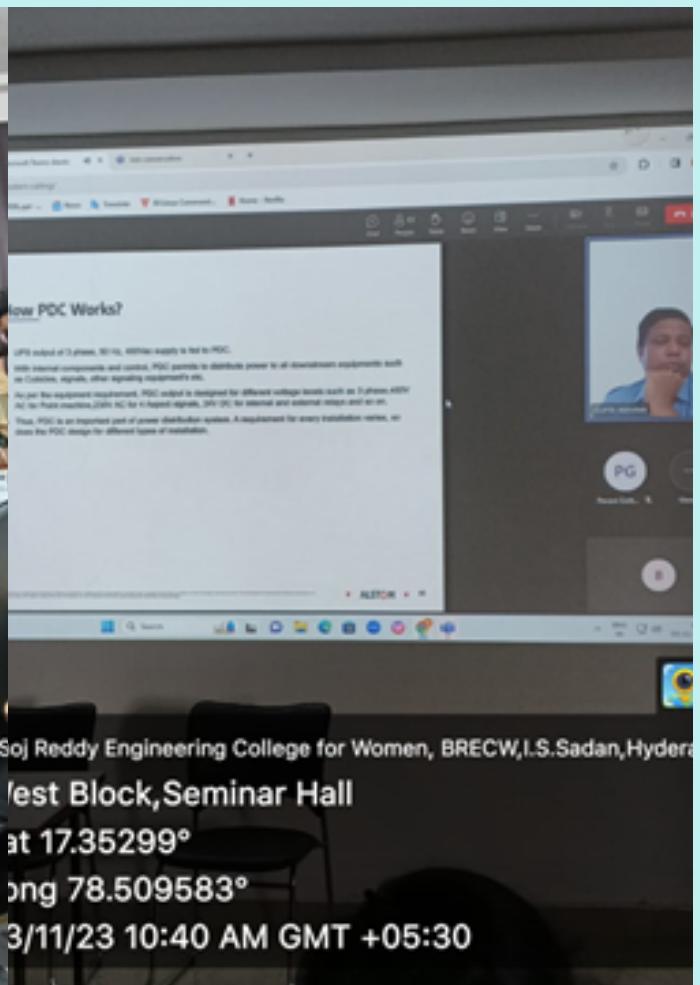
EEE department has celebrated fresher's day on 17 October 2023, from 9:45 am to 4:00 pm. There were several events including the ramp walk, then there was an hour break for lunch in the premises of polytechnic college. After lunch the event continued, and many students performed different activities. Freshers Day was co-ordinated by S Deepti, Associate professor, HOD-EEE and department cultural co-ordinator R Manju Bhargavi, Associate professor (EEE); along with the staff and student cultural coordinators from all classes.



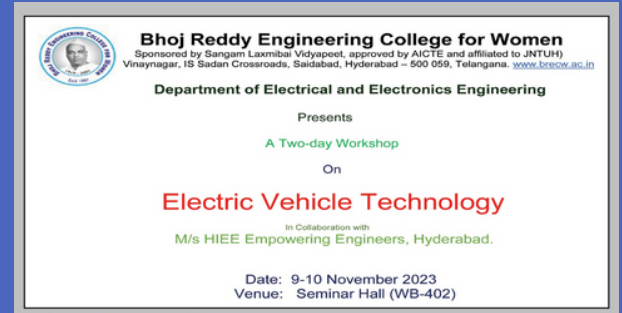


The EEE Departments organized a Guest Lecture on "Power Supply Distribution and UPS" for III BTech EEE students on 3 November 2023, Guest Lecture was scheduled from 10:00AM to 11:30AM. The venue was Seminar Hall WB-401. The Speaker was Abhishek Gupta, WCE Senior Expert DIS (Senior Expert), at M/s ALSTOM. He commenced by providing a comprehensive overview of Power Supply Distribution and UPS systems, highlighting their importance in various industries.

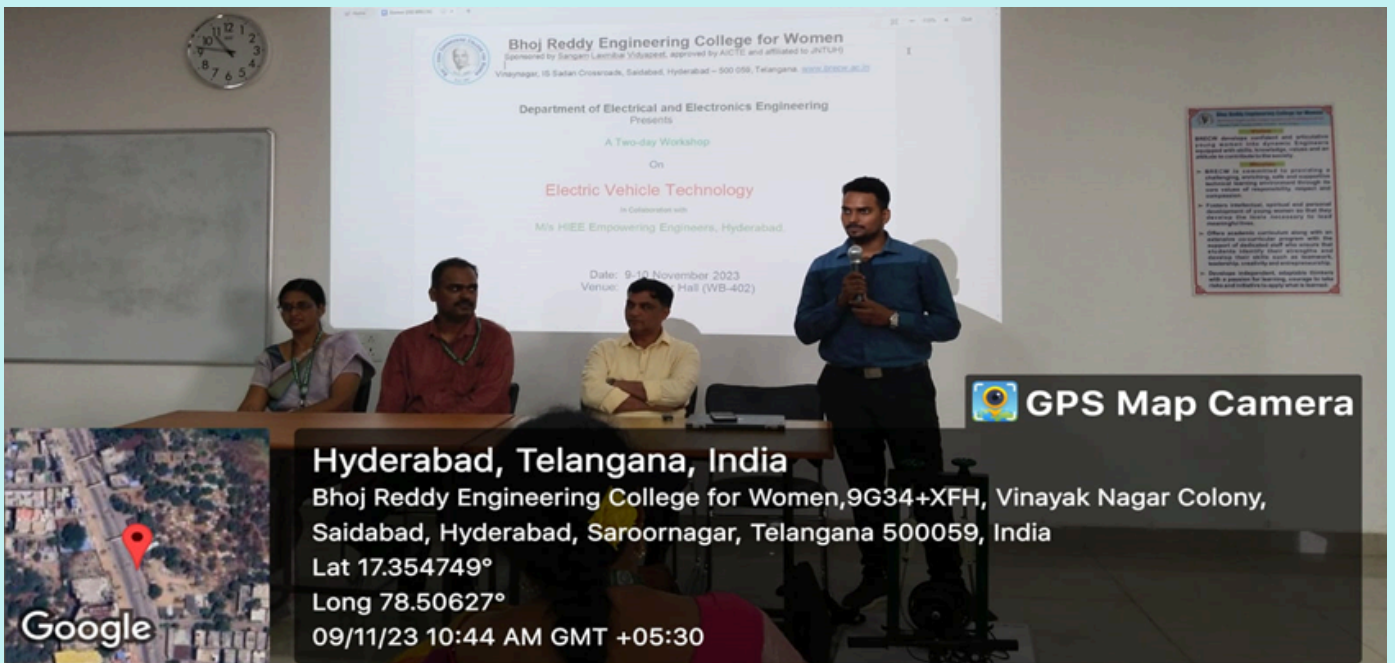
Mr. Abhishek Gupta delved into the latest technological advancements in the field, discussing the design, operation, and maintenance of UPS systems. He presented case studies and examples from ALSTOM's projects to illustrate their practical applications.



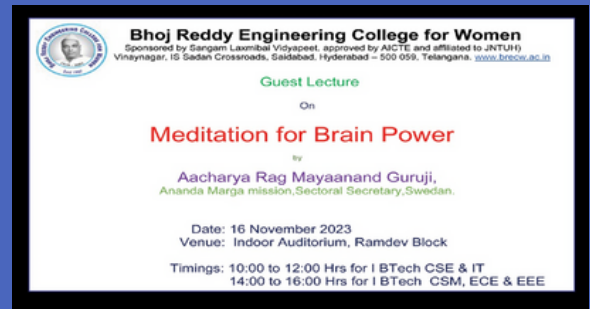
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The EEE department of Bhoj Reddy Engineering College for Women organized a two-day workshop on “Electric Vehicle Technology” for III B Tech EEE students from 9 to 10 November 2023. The theory part will be explained in the West Block Seminar Hall (WB 402). This workshop was conducted by Mr K Madhan Mohan Goud, CEO & Founder, M/s HIEE Empowering Engineers, Hyderabad. The workshop is scheduled between 09:30 – 16:30 Hrs. Resource persons were Mr K Madanmohan Koukuntla, Founder & CEO at HIEE, Managing Director-HIEE, Mr Deepesh Kumar Barla, Co-founder & MD-EV Retron Energies, Neha Nandargi, Battery Engineer, EV Retron Energies, Mr Abhijith, Design engineer and battery manufacturer.



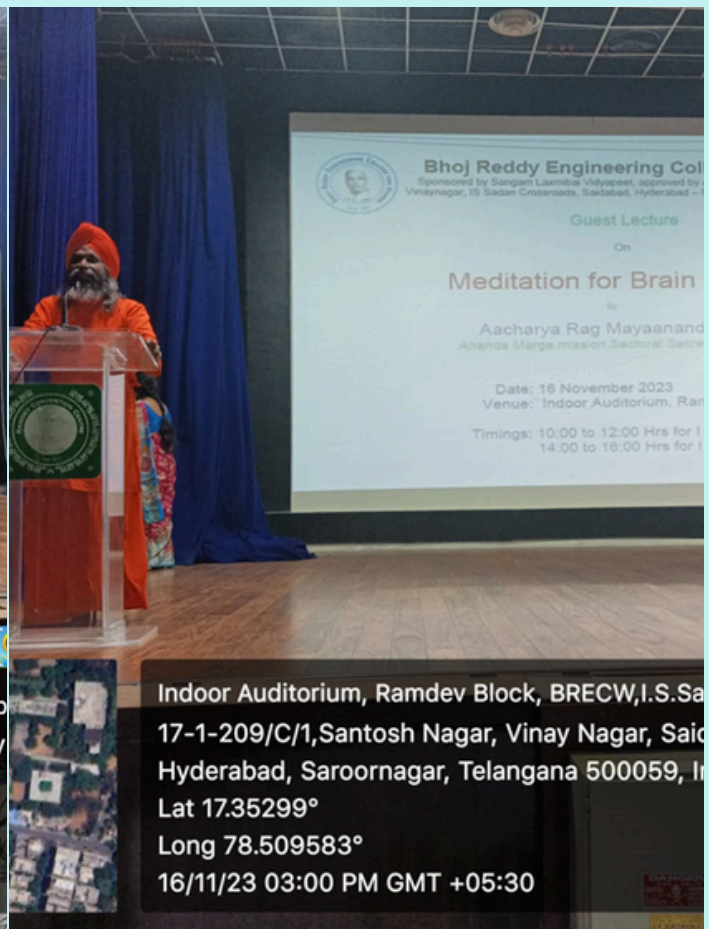
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Bhoj Reddy Engineering College for Women organized a Guest Lecture on "Meditation for Brain Power" for the first-year students of BTech programs in Computer Science and Engineering (CSE), Computer Science and Machine learning (CSM), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), and Information Technology (IT) students on 16 November 2023. Speakers-Aacharya Rag Mayaanand Guruji; Ananda Marga mission, Sectoral Secretary, Sweden; Aacharya Avaduthika Ananda Aradhana, Delhi; Shri Shubhacintananda Avadhuta, Hongkong; Shri Aacharya Subhadrananda Avadhuta, Mumbai.



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The Bhoj Reddy Engineering College for Women organized a Guest Lecture on “Basic Life Support” on 18 November 2023. Basic Life Support (BLS) is a critical and fundamental set of emergency medical procedures designed to sustain life in individuals experiencing cardiac or respiratory arrest. The primary goal of BLS is to maintain blood circulation and oxygenation to vital organs until more advanced medical interventions can be administered. Key components of BLS include chest compressions, rescue breaths, and early defibrillation.

During a cardiac arrest, immediate initiation of high-quality chest compressions is crucial to pump oxygenated blood to the brain and other vital organs. Rescue breaths, which involve providing artificial ventilation, aid in restoring oxygen levels. Early access to automated external defibrillators (AEDs) is also emphasized in BLS protocols, as defibrillation can restore a normal heart rhythm in some cases of cardiac arrest caused by certain arrhythmias.

