



POTENTIA

Volume 6 Issue 1

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

Newsletter
January - June 2024



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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.

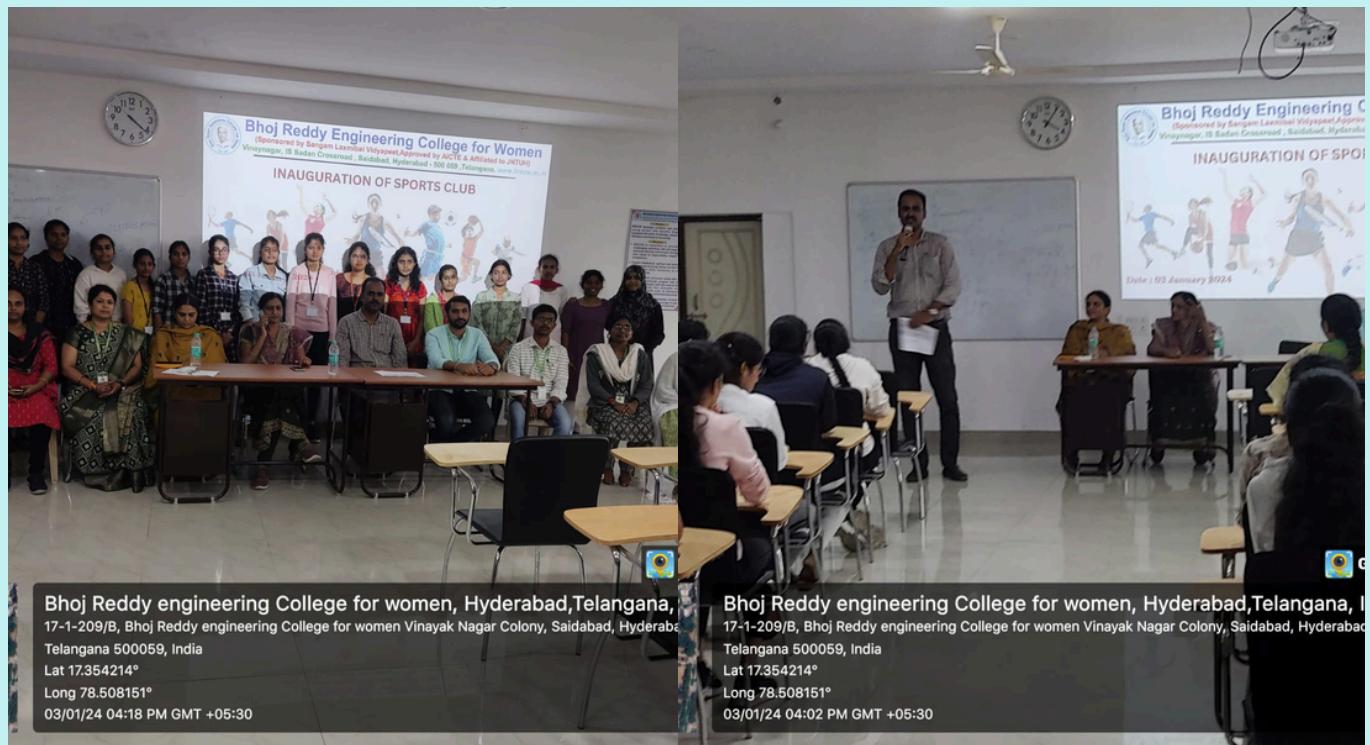
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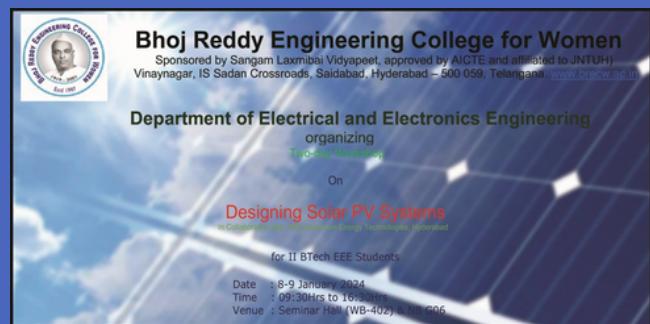
**GAMES &
SPORTS
CLUB**

On the 3rd of January, 2024, BRECW proudly inaugurated its new Sports Club in a well-attended ceremony at the West Block Seminar Hall 2, Room Number 402. The event marked a significant milestone for the college, emphasizing the importance of sports and physical activities in the holistic development of students. The Principal, along with esteemed faculty members, graced the occasion, delivering inspiring speeches that highlighted the club's vision and the benefits of active participation in sports. The inauguration also featured by a detailed presentation on the club's planned activities, facilities, and membership procedures.

The enthusiasm and excitement among students were palpable as they eagerly signed up for various sports and activities offered by the club. The event concluded with a Q&A session, where faculty members and students discussed future plans, upcoming events, and the potential impact of the club on the student community.



EEE Newsletter



The EEE department conducted a two-day workshop on “Designing Solar PV Systems” for II B Tech EEE students from 8-9 January 2024. The theory part was explained in the II EEE class room (NB G06) and hands-on session conducted on solar panels. This workshop was conducted by Mr B Purushotham Chary, M/s Greenvion Energy Technologies, Hyderabad. The workshop is scheduled between 09:30 – 16:30 Hrs. From this workshop, the students came to know about the concepts of Solar photovoltaic system, design of Solar PV systems, power calculations and hands on experience on how to install the Solar PV system. This workshop also helps the students in doing their mini and major projects using PV systems. The workshop was dealt with the basics of the Present Energy Scenario in India Types of PV systems, Power and energy calculation. The afternoon session was on Components of solar Photo-Voltaic system, Load analysis, Component selection, battery safety, Voltage drops, controllers and commissioning procedures.



GPS Map C

Wet block seminar hall 402, Telangana
17-1-209/B, Vinayak Nagar Colony, Saidabad,
Hyderabad, Saroornagar, Telangana 500059,
Lat 17.3543°
Long 78.50811°
08/01/24 10:25 AM GMT +05:30



GPS Map C

North block, Bhoj Reddy Engineering College
Rooftop, North block, 17-1-209/B, Vinayak Nagar
Saidabad, Hyderabad, Saroornagar, Telangana 500059
Lat 17.367799°
Long 78.507431°
09/01/24 03:53 PM GMT +05:30

EEE Newsletter



The Annual Students Sports & Games Meet 2023-24, held on the 27 and 28 March 2024, was a resounding success at BRECW, showcasing the vibrant athletic talent and sportsmanship within our college community. The event, which ran from 9:30 AM to 4:30 PM on both days, saw enthusiastic participation from students across various disciplines, creating an atmosphere of excitement and camaraderie in the college premises.

The meet kicked off with a grand inauguration ceremony at 9:30 AM on 27 March 2024, featuring an inspiring keynote address by the Principal. Over the two days, students competed in a range of sports, including track and field events, basketball, volleyball, chess, etc. The competitions were fierce yet friendly, and the spirit of fair play was evident throughout. The closing ceremony on the 28th at 4:00 PM was marked by the awarding of medals and trophies to the winners, with the Principal and other dignitaries commending the participants for their exceptional performances and sportsmanship. The event concluded on a high note, leaving everyone eagerly anticipating the next annual meet.



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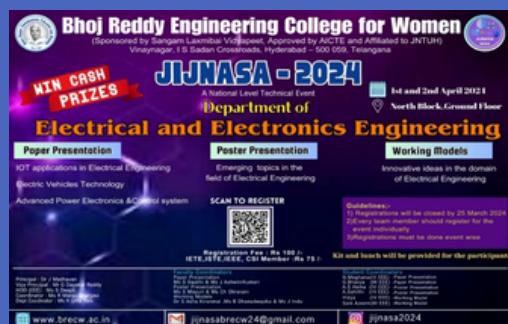


An Industrial visit to 220kV/132kV/33kV Chandrayangutta Substation was organized by the EEE department of Bhoj Reddy Engineering College for Women on 09 February 2024, with 49 numbers of III EEE BTech students and 5 staff members (1. R Manju Bhargavi, Associate Professor, EEE; 2. J Ashwini Kumari, Associate Assistant Professor, EEE; 3. K Uma Rani, Assistant Professor, EEE; 4. J Indu, Assistant Professor, EEE; 5. K Rajamani, Lab Assistant, EEE).

The visit commenced as planned, with the bus departing from our college premises at 10:00 AM and arriving at 220kV/132kV/33kV Chandrayangutta Substation around 10:30 AM. The journey was smooth and efficient. Upon reaching Chandrayangutta, we were warmly received by the staff from the TSTRANCO department, led by Mr Bhamachaari, Assistant Divisional Engineer and Mr Srinivas, Assistant Divisional Engineer. The warm welcome and smooth coordination set a positive tone for the entire visit. A brief introduction about the substation and its operations was given.



EEE Newsletter



A National level technical event JIJNASA-2024 was conducted on 1st and 2nd April 2024 organized under IEEE and ISTE student chapter. The inaugural session started at 10.00am on 1 April in presence of Chief Guest Mrs S Shankari, Project Director, ASL at DRDO ,Prof Sudha Vepa Secretary, SLV, Dr Ch Sujatha Ganadhar, Chief Operating Officer, SLV, Dr Gracy Saila Sree, Director HR&ACADEMICS, SLV, Dr J Madhavan-Professor & Principal, BRECW, Mr G Dayakar Reddy-Vice Principal BRECW, Ms R Manju Bhargavi-Convener. For Jijnasa 2024, Ms. S Deepti, Associate Professor & HOD-EEE and Ms. K. Uma Rani, Assistant Professor, department coordinator made this event successful in the EEE department.

As part of the national-level technical event JIJNASA-2024, the EEE department organized various events including paper presentations, poster presentations, working models, and guest lectures. For this event, participants from different colleges of UG and PG across the nation participated. The EEE department received a total of 135 registrations from different colleges.



EEE Newsletter



BRECW organized "Farewell Day-2024" for all students. The event was celebrated on 6 May 2024, from 9:45 am to 4:00 pm for the EEE department. Farewell Day was co-ordinated by S Deepti, Associate professor, HOD-EEE and department cultural co-ordinators R Manju Bhargavi, Associate professor (EEE) along with the staff and cultural coordinators from all classes and monitored by Dr Ch Sujatha Gangadhar-Chief Operating Officer, Dr K Gracy Saila Sree- Director HR & Academics, SLV, Dr J Madhavan-Principal, G Dayakar Reddy-Vice Principal. All the students of I, II, III, IV year of EEE department have actively participated.

The farewell day celebration is a momentous event in the life of every graduating batch at an engineering college. It serves as an opportunity for students to bid farewell to their alma mater, reflect on their academic journey, and embark on a new chapter in their lives. The farewell day celebration at BRECW was organized by the student council, with support from the faculty and administration.



Auditorium, Ramdev Block, BRECW, I.S. Sadan, Hyderabad, Telangana, India
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+91 98499 52999*
+91 9509583*
24 11:18 AM GMT +05:30

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Bhoj Reddy Engineering College for Women
Sponsored by Sangam Laxmi Vilaspati, approved by AICTE
Vinayapuri, 15 Sebin Crossroads, Saidabad, Hyderabad - 500 059, Telangana. [www.brecw.ac.in](http://brecw.ac.in)

Department of Electrical and Electronics Engineering
Presents

A Guest Lecture
On

"Hybrid Electric Powertrains: Energy Sources, Configurations, Benefits and Challenges"
Organizing under IEEE Student Chapter

By
Dr. Vikranth Racherla
Professor, IIT Kharagpur & Prof-in-Charge for Centre for Railway Research(CRR),
Associate Head-Center for Rural Development and Innovative Sustainable Technology

Date: 07 June 2024 for I, II & III BTech EEE Students
Timings: 10:30 to 12:30 Hrs
Venue: Seminar Hall (WB-402)

The EEE department conducted a guest lecture on "Hybrid Electric Powertrains: Energy Sources, Configurations, Benefits and Challenges" for I, II & III BTech EEE students on 07 June 2024. The guest lecture is scheduled from 10:30 to 12:30 Hrs at Seminar Hall (WB 402). The guest lecture by Dr. Vikranth Racherla on hybrid electric powertrains was highly informative and well-received. Dr. Vikranth Racherla's ability to break down complex concepts and relate them to real-world applications resonated with both students and professionals. The interactive elements, especially the Q&A session and group discussions, fostered a dynamic learning environment.

Dr. Vikranth Racherla's dual roles in railway research and sustainable technology provided a unique and comprehensive perspective on the subject. Participants appreciated his insights into the technical, economic, and policy challenges of hybrid electric powertrains, as well as his vision for the future of sustainable transportation.



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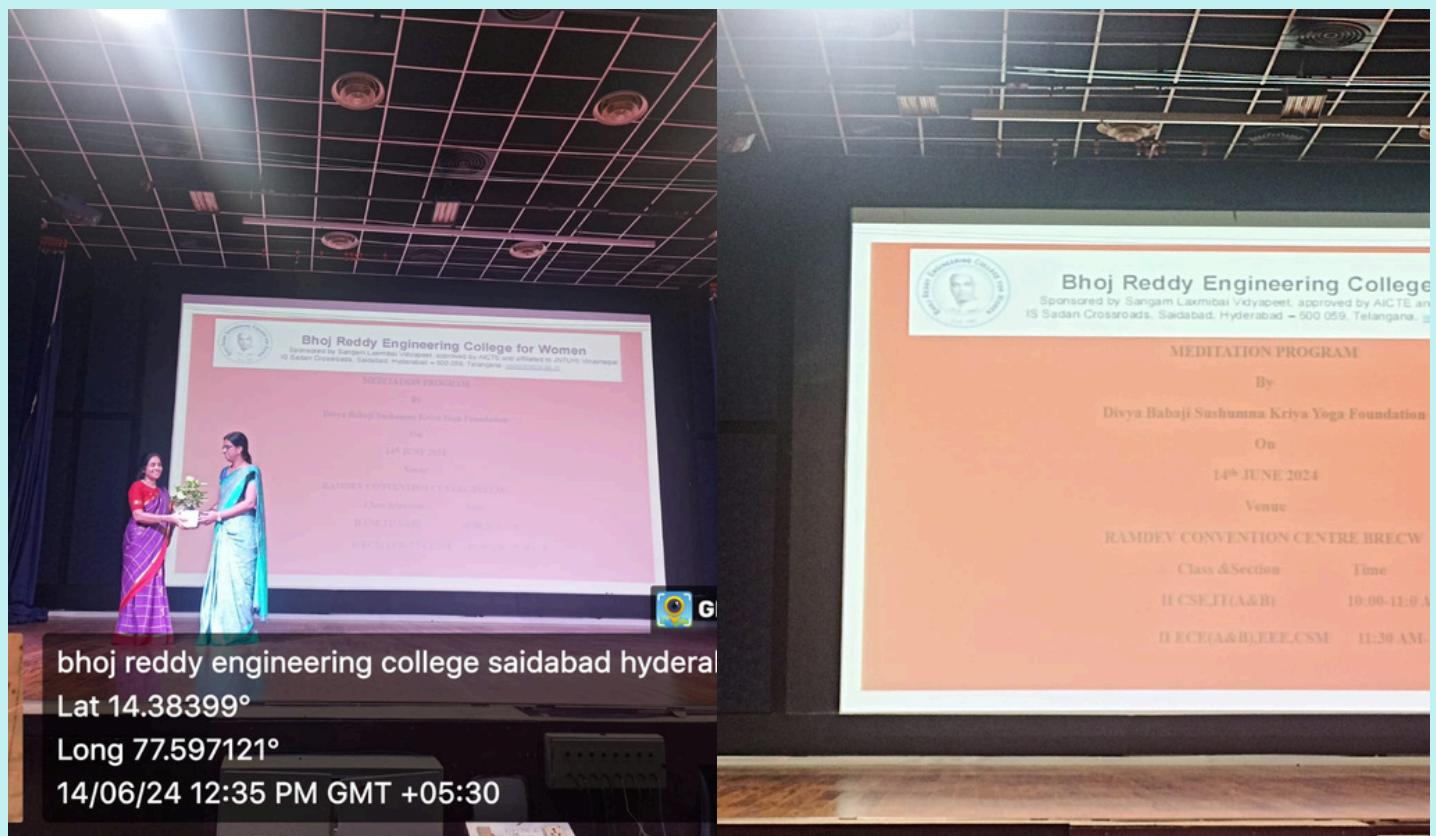


Guest Lectures



The NSS committee successfully organized a Meditation Program on 14th June 2024, led by the esteemed Divya Babaji Sushumna Kriya Yoga Foundation at Indoor Auditorium, Ramdev Block from 10:00 to 12:30 Hrs. The program was aimed at promoting mental well-being and stress relief among the students. The event began with an introductory session where the facilitators from the Divya Babaji Sushumna Kriya Yoga Foundation explained the significance of meditation and its various benefits. This was followed by a guided meditation session, where students were taught the fundamentals of Sushumna Kriya Yoga. The meditation session lasted for approximately one hour, during which students actively participated and engaged in the practices.

The program saw enthusiastic participation from all II B.Tech students. The total number of participants was 200, making it a highly successful event. Students were attentive and showed a keen interest in learning and practicing the meditation techniques.



EEE Newsletter



An Industrial visit to 220kV/132kV/33kV Chandrayangutta Substation was organized by the EEE department of Bhoj Reddy Engineering College for Women on 21 June 2024, with 54 numbers of II EEE BTech students and 4 staff members (1. R Manju Bhargavi, Associate Professor, EEE; 2. B Dhana Deepika, Assistant Professor EEE; 3. J Indu, Assistant Professor, EEE; 4. R Chaitanya, Lab Asssistant, EEE). The visit commenced as planned, with the bus departing from our college premises at 10:00AM and arriving at 220kV/132kV/33kV Chandrayangutta Substation around 10:30 AM. The journey was smooth and efficient. Upon reaching Chandrayangutta, we were warmly received by the staff from the TSTRANCO department, led by Mr Srinivas and Mr Yakesh, Assistant Divisional Engineers. The warm welcome and smooth coordination set a positive tone for the entire visit and they gave a brief introduction about the substation and its operations.



