



POTENTIA



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

Newsletter
January - June 2023



INDEX

Vision, Mission	2
Workshop	3
Guest Lecture	4
Solar Workshop	5
Guest Lecture	6
IEEE awareness	7
Guest Lecture	8
Farewell day	9
Guest Lecture	10
Merit Awards	11
Yoga Day	12



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.

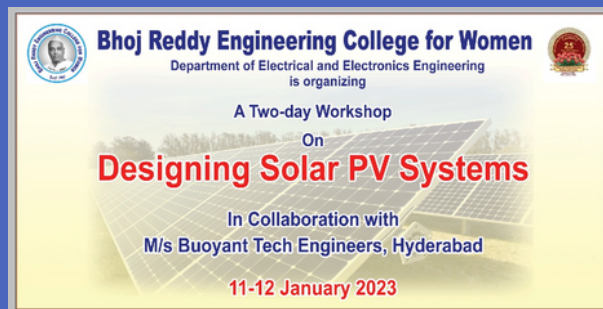
PEO III: Develop ethical values and aptitude for life-long learning that enables them to stay abreast with latest technology needed for successful professional career.

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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In BRECW, the Department of EEE conducted a workshop on Designing Solar PV Systems for II BTech EEE students on 11 and 12 January 2023. The workshop was led by Buoyant Tech Engineers from Hyderabad.

On the first day, the workshop began with an overview of the current energy scenario in India, types of PV systems, and methods for power and energy calculations. The afternoon session focused on the components of solar photovoltaic (PV) systems, including load analysis, component selection, battery safety, voltage drops, controllers, and commissioning procedures.

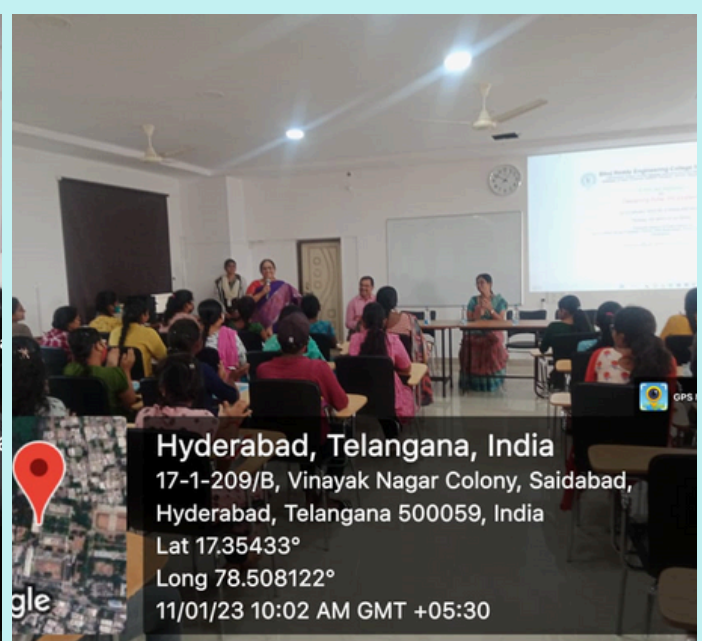
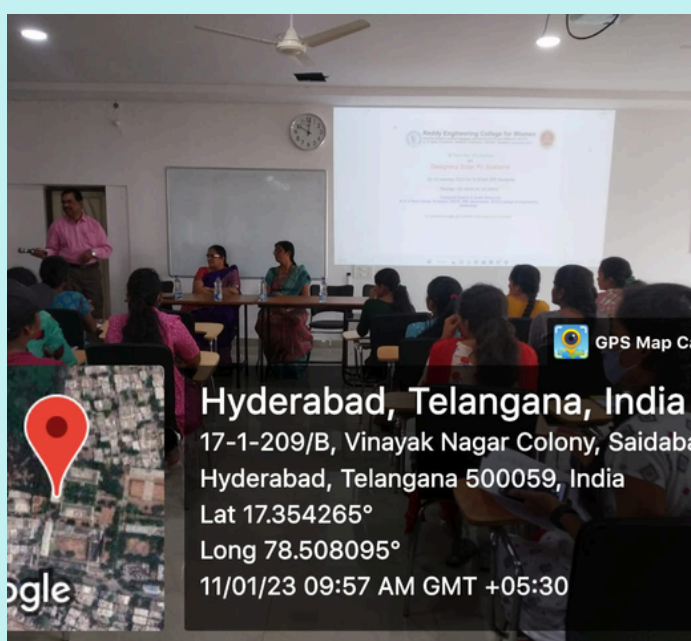
On the second day, the forenoon session covered financial analysis and the installation process of a solar PV system. The afternoon session was practical, where students analyzed a solar PV module and calculated its performance. The workshop concluded with a valedictory function, where all participants received certificates of participation.



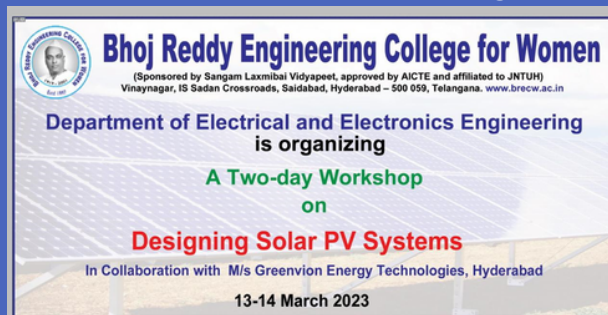
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Guest Lecture

A Guest Lecture was conducted on Renewable Energy Sources for II BTech EEE students on 11 January 2023. Speaker was Dr. K .H. Phani shree, Ph.D, Professor, MISTE, Electrical & Electronics Engineering. She Completed B.Tech (EEE) from Bapatla Engineering College Bapatla. M.E(Power systems) from NIT Trichurapalli. Ph.D from JNTU. K H Phani Sree Madam gave an idea about different types of Renewable energy power generations in practice and the sources used to generate Power. She mainly focused on Wind, Solar and Hybrid Power Generations. She explained about Controllers, Converters & How they play a major role in Controlling & Conversion of Power. She also explained about different types of operation of Solar systems. Like Stand-alone Solar PV System, Grid-Connected Mode of PV System and their Simulink Diagrams were explained. She showed some Videos on how Solar Output is connected to Grid. She explained about Wind Energy Conversion Systems(WECS), Different types of machines which are used for the conversion of Wind Energy Such as Squirrel Cage Machines, Wound Rotor Machines, etc. She also explained about the Components used in WECS & operation of each and every equipment such as Gear box, wind turbines, low speed shaft and rotor.



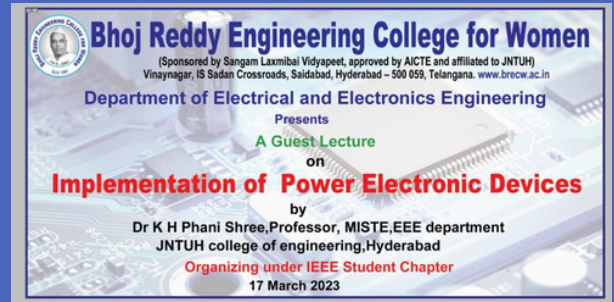
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EEE Department has organized a two-day workshop on “Designing of Solar PV Systems” for III BTech EEE students on 13 & 14 March 2023. Fifty Three III BTech EEE students got registered. The workshop was scheduled from 09:30 to 16:30 Hrs. The workshop was conducted by Greenvion Energy Technologies, Hyderabad. Solar PV systems have become increasingly popular in recent years due to their ability to generate clean energy and reduce reliance on fossil fuels. However, designing an efficient and effective solar PV system requires careful planning and attention to detail.

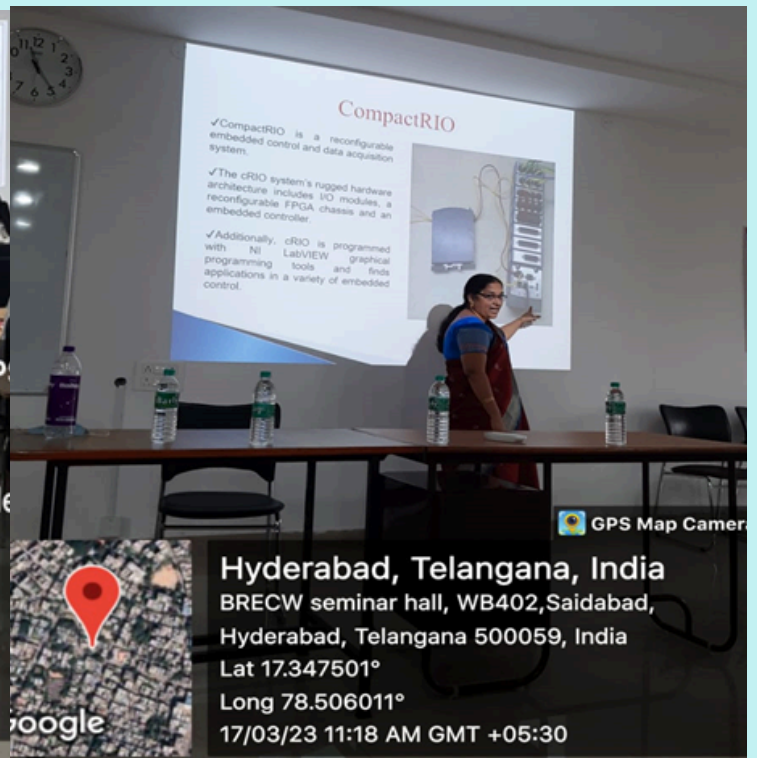


EEE Newsletter



The EEE Department has organized a Guest Lecture on “Implementation of Power Electronic Devices” for III & IV B Tech EEE students on 17 March 2023, Guest Lecture was scheduled from 10:30 to 12:30 Hrs.

Inaugural function was attended by the Speaker Dr K H Phani Shree, Principal Dr E Madhusudhana Reddy, EEE-HOD Mrs S Deepti, Workshop in-charge Mrs R Manju Bhargavi, EEE staff and III and IV EEE students. The venue was Seminar Hall WB-402. Overall feedback of the Guest Lecture is excellent and active participation of students during the lecture was notable, and students were engaged throughout the session. Students thoughtful questions and insightful comments added a lot of value to the overall discussion. We could tell that students have a good grasp of the subject matter as the lecture was informative and enlightening.



EEE Newsletter

IEEE Awareness Program

An interactive session was conducted with the students, where they could ask Training Session of IEEE e-journals on 20 March 2023 at BRECW. The session was led by Mr M Srinivas, member of IEEE who answered the students' queries. From 10:30am to 11:30am session was conducted for III BTech ECE & EEE students and 11:40 to 12:40pm for III BTech CSE & IT students. Around 450 students participated.

The Institute of Electrical and Electronics Engineers (IEEE) is a professional organization that promotes the advancement of technology related to electrical and electronic engineering. The IEEE Awareness Program is an initiative aimed at increasing awareness of the organization's benefits and resources among engineering students.

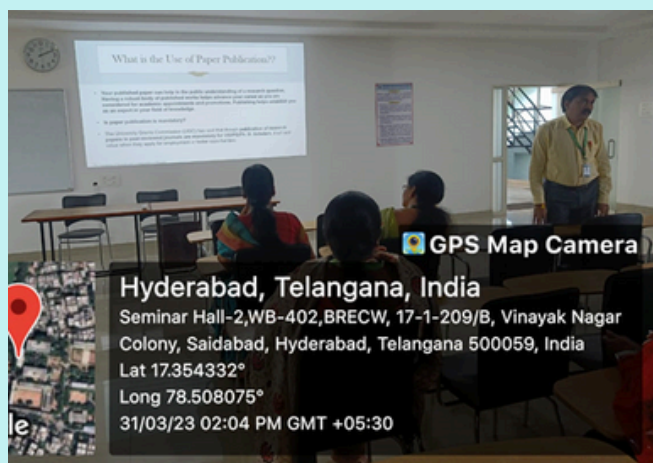


EEE Newsletter

Guest Lecture

The EEE and ECE Departments has organized a Guest Lecture on "The Importance of Research Work in Latest Trends at UG Level" for IV BTech EEE & ECE students on 31 March 2023, Guest Lecture was scheduled from 13:30 to 14:30 Hrs. The guest lecture was an informative and inspiring session for the engineering students of BRECW. Speaker was Dr B Raveendranadh Singh, Professor, CSE department, BRECW, Hyderabad.

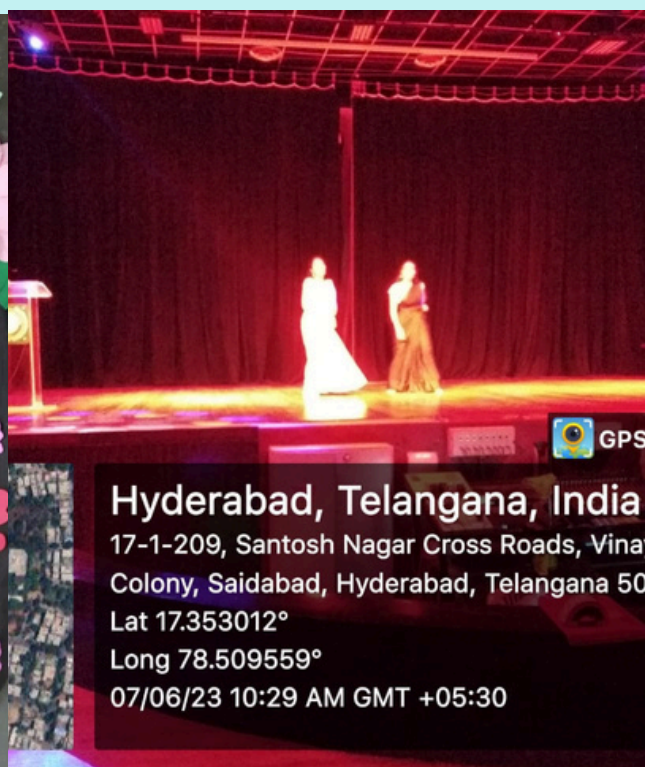
It highlighted the benefits of research work and provided practical advice on how to overcome the challenges associated with it. The lecture encouraged students to pursue research work actively and develop the necessary skills and knowledge to succeed in their academic and professional careers. The session concluded with a Q&A session where students got the opportunity to clarify their doubts and seek further guidance on research work.



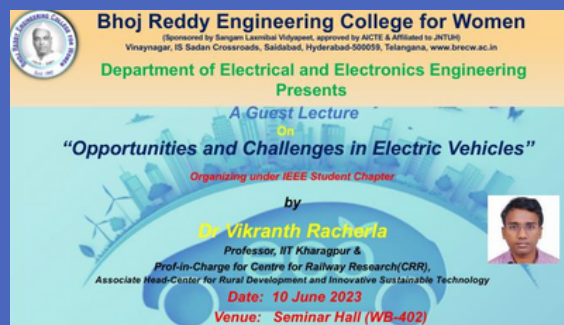
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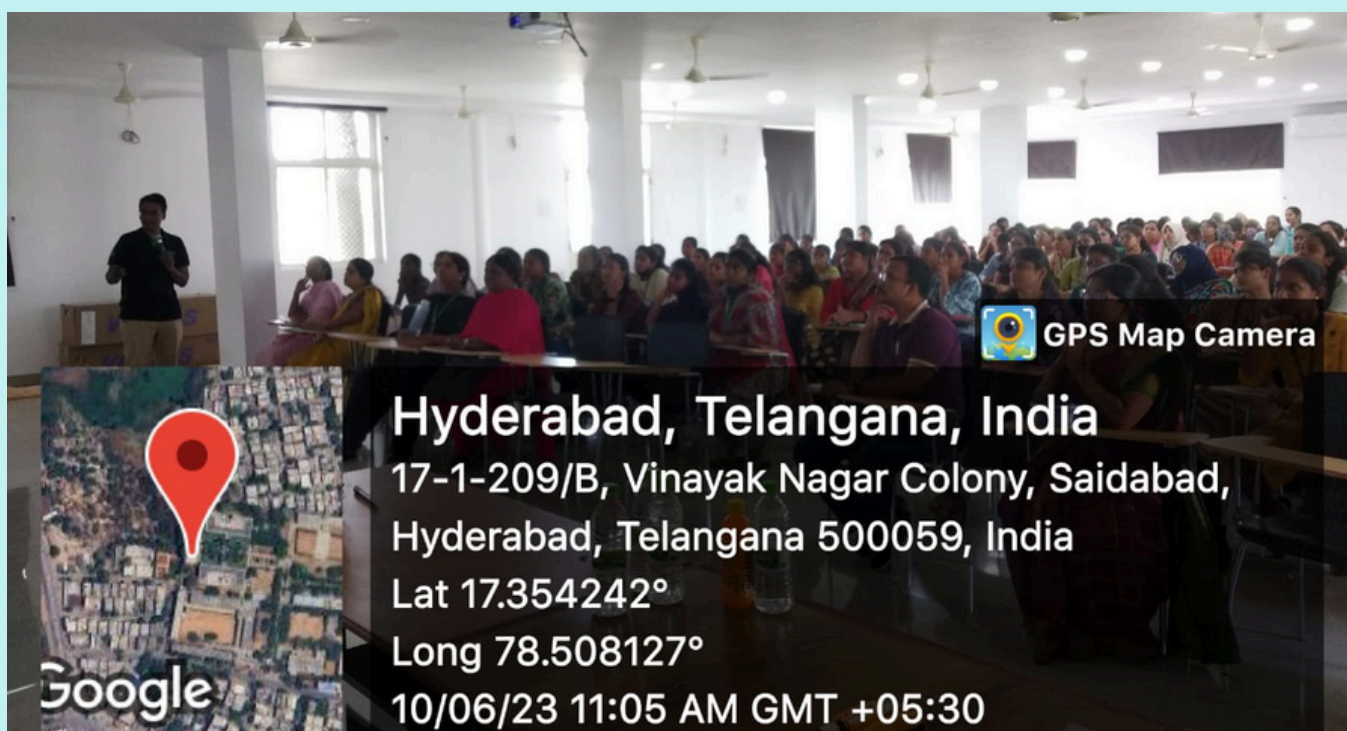
BRECW organized “Farewell Day-2023” for all students. The event was celebrated on 7 June 2023, from 9:45 am to 4:00 pm for the EEE department. Farewell Day was co-ordinated by S Deepti, Associate professor, HOD-EEE and department cultural co-ordinator R Manju Bhargavi, Associate professor (EEE); along with the staff and cultural coordinators from all classes. 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.



EEE Newsletter



The EEE Department organized a Guest Lecture on “Opportunities and Challenges in Electric Vehicles” for II, III & IV B Tech EEE students on 10 June 2023, Guest Lecture was scheduled from 10:30 to 12:30 Hrs. Inaugural function was attended by the Speaker Dr Vikranth Racherla, Principal Dr E Madhusudhana Reddy, EEE-HOD Mrs S Deepti, Workshop in-charge Mrs R Manju Bhargavi, EEE staff and II, III and IV EEE students. The venue was Seminar Hall WB-402. Speaker was 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. Dr Vikranth Racherla began his lecture with an introduction to electric vehicles and their potential to revolutionize the transportation industry. The speaker highlighted the environmental benefits of electric vehicles, including the reduction of greenhouse gas emissions and the improvement of air quality. The speaker also mentioned the benefits of energy independence, cost savings, technological innovation, and job creation associated with the widespread adoption of electric vehicles.



EEE Newsletter



Bhoj Reddy Engineering College for Women
(Sponsored by Sangam Laxmibai Vidyapeet, approved by AICTE and affiliated to JNTUH)

Congratulations
to all the
Attendance and Merit Award winners

Event Dates: 15, 16 and 17 June 2023
Venue: Indoor Auditorium, Ramdev Block

Merit and Attendance Award Ceremony held at BRECW on 15 June 2023. The ceremony was organized with the aim of recognizing and honoring the academic excellence and outstanding attendance of our students. The event served as a platform to acknowledge their hard work, dedication, and commitment to their studies. The event commenced with a welcome speech by HOD-EEE, S Deepti, who emphasized the importance of academic excellence and regular attendance in shaping successful engineering careers. Later she presented the awards.



EEE Newsletter



International Yoga Day was celebrated in Bhoj Reddy Engineering College. International Yoga Day, observed annually on June 21st, promotes the practice of yoga for physical and mental well-being. Conducted yoga sessions that cater to participants of all levels of expertise. The sessions included a variety of yoga postures, breathing exercises, and relaxation techniques. Ensure that the instructor demonstrates and explains each pose clearly, emphasizing correct alignment and breathing techniques. Celebrated International Yoga Day in BRECW provided an opportunity for students, faculty, and staff to experience the physical, mental, and spiritual benefits of yoga. By organizing a well-planned event, incorporating various yoga activities, and encouraging participation, the college has created an awareness and promoted a culture of holistic well-being among its community.

