



# Bhoj Reddy Engineering College for Women

(Sponsored by Sangam Laxmibai Vidyapeet, approved by AICTE and affiliated to JNTUH)  
Vinaynagar, IS Sadan Crossroads, Saidabad, Hyderabad – 500 059, Telangana. [www.brecw.ac.in](http://www.brecw.ac.in)

21 March 2023

## Report of Guest Lecture on "Implementation of Power Electronic Devices"

The EEE Department has organized a Guest Lecture on "Implementation of Power Electronic Devices" for III & IV B Tech EEE students during 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.

### Speaker:



**Dr. K .H. Phani shree**, Ph.D,

### Professor

### MISTE

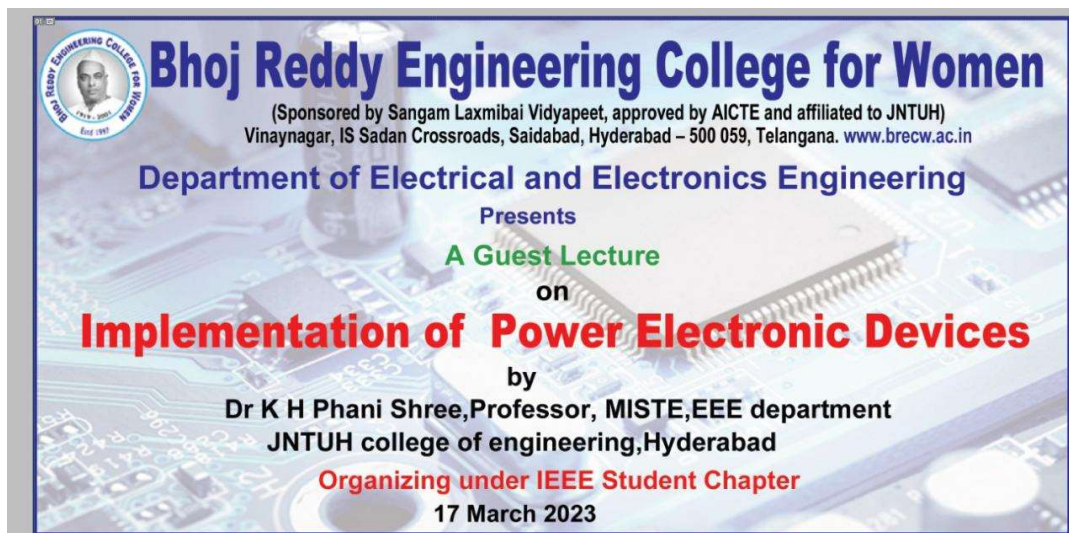
Electrical & Electronics Engineering

### Areas of Interest:

Power Electronics and Drives; FACTS and Renewable energy systems.

She Completed B.Tech (EEE) from Bapatla engineering College Bapatla. M.E(Power systems) from NIT Trichurapalli. Ph.D from JNTU. She has 20 years of teaching and research experience. Received Engineering Impact Award for the year 2016 from National Instruments. She is a Member of ISTE. Developed Research Lab in department of EEE in JNTU. Presented 10 research papers in National and International Conferences in India and Abroad. Published around 12 journal papers. Guided 25 M.Tech and 20 B.Tech Projects. presently guiding 2 Ph.D candidates. Serving as Project Engineer (Electrical) and Officer Incharge of Examinations in CEHÂ.

## Banner:



## Schedule:



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### Department of Electrical and Electronics Engineering

Inaugural Session Schedule Guest Lecture on "Power Converter applications"

**Date: 17 March 2023**

**Venue: Seminar Hall (WB 402)**

| SNo | Time     | Speaker  |
|-----|----------|--|
| 1   | 10:30 AM | Welcome Address by Anjali Potlapally (III EEE)     |
| 2   | 10:35 AM | Address by Executive Officer, Mrs E Vijaya Lakshmi |
| 3   | 10:40 AM | Address by Principal, Dr E Madhusudhana Reddy      |
| 4   | 10:45 AM | Address by Vice-Principal, Mr G Dayakar Reddy      |
| 5   | 10:50 AM | Address by HoD-EEE, Mrs S Deepti                   |
| 6   | 10:55 AM | Keynote address by speaker, Dr K H Phani Shree     |
| 7   | 12:30 AM | Vote of Thanks by D Pujitha Reddy (III EEE)        |

On the Forenoon of March 17th, 2023, the Department of Electrical Engineering at Bhoj Reddy Engineering College for Women hosted a guest lecture on "Implementation of Power Electronic Devices." The speaker was Dr K H Phani Shree, an expert in power electronics and an accomplished academician with over 20 years of experience in the field. The lecture was attended by 119 students and faculty members from the EEE department.

Dr K H Phani Shree began his lecture by introducing the concept of power electronic devices and their significance in modern power systems. She explained that power electronic devices are used to control the flow of electrical energy in various applications, ranging from small-scale electronic devices to large-scale power grids. She also highlighted the advantages of power electronic devices over traditional electrical components, such as their high efficiency, compact size, and low cost.

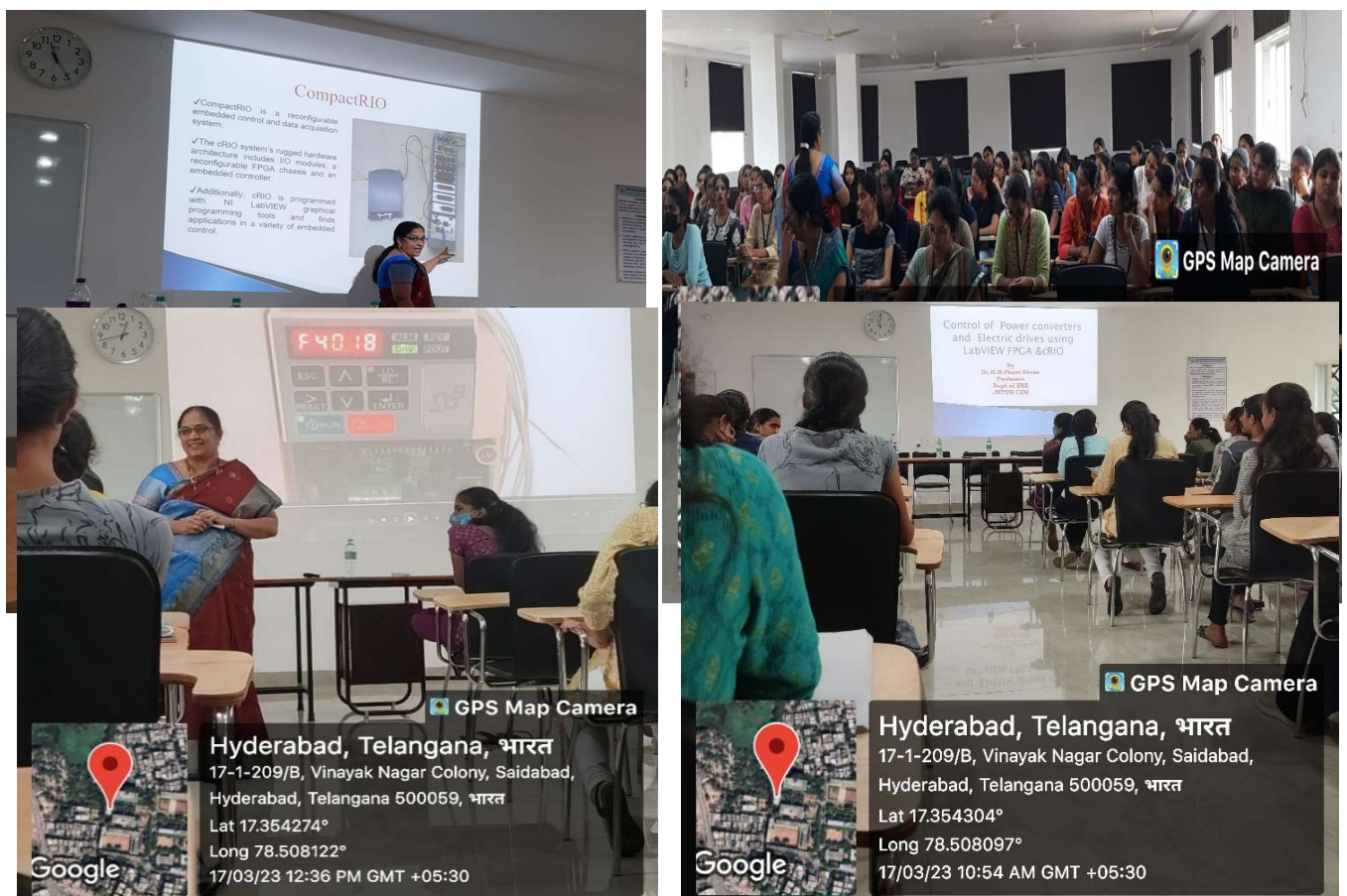
Dr K H Phani Shree then went on to discuss the different types of power electronic devices, including diodes, transistors, thyristors, and other semiconductor devices. She explained how these devices work, their characteristics, and their applications in different power systems. She also highlighted the importance of device selection, based on parameters such as voltage, current, frequency, and switching speed.

The lecture then focused on the implementation of power electronic devices in practical applications. Dr K H Phani Shree discussed the design and construction of various power electronic circuits, such as rectifiers, inverters, converters, and choppers. She also explained the different control methods used to regulate the output of these circuits, such as pulse width modulation (PWM), voltage regulation, and current limiting.

Dr K H Phani Shree concluded her lecture by discussing the challenges and opportunities in the field of power electronics. She highlighted the need for continuous research and development to improve the performance and efficiency of power electronic devices, and their integration into smart grid systems. He also emphasized the role of education and training in preparing the next generation of power electronics engineers and researchers.

Overall, the guest lecture on "Implementation of Power Electronic Devices" was informative and insightful, providing students and faculty members with a comprehensive understanding of power electronic devices and their applications in modern power systems. Dr K H Phani Shree's expertise and experience in the field were evident throughout the lecture, making it a valuable learning experience for all attendees.

Figure 1: During the lecture of K H Phani Shree garu





The Oral Feedback from the students was taken. 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. In future, we can encourage students to continue attending such events and to keep learning and growing in their field of interest.

Figure 2: During valedictory ceremony, speech by R Manju Bhargavi, Seminars and Workshops In-charge



R Manju Bhargavi, Seminars and Workshops In-charge faculty expressed her sincere gratitude for allowing EEE department with and the opportunity to conduct a guest lecture at BRECW. She appreciated the support that management gave and said it was informative session. Once again, she said thank you for allowing them to contribute to the learning and development of their students and the session was concluded by the vote of thanks by B Pujitha Reddy, a student of III EEE.