



# Bhoj Reddy Engineering College for Women

(Sponsored by Sangam Laxmibai Vidyapeet, approved by AICTE and affiliated to JNTUH)  
Vinay Nagar, IS Sadan Crossroads, Saidabad, Hyderabad-500059, Telangana

# ELECTRIKA

Technical Magazine

Academic Year : 2019 Volume - 1

Department of Electrical & Electronic Engineering



Website: [www.brecw.ac.in](http://www.brecw.ac.in)

Bhoj Reddy Engineering College for Women is run by Sangam Laxmibai Vidyapeet, a registered voluntary social action group working since 1952 for empowerment of women and girls through education. The vidyapeet has more than 71 years of experience in the field of education.

The College was established in 1997. It is managed by an executive committee consisting of persons with long experience in the field of education. Within a short period, it has emerged as one of the premier engineering colleges in the state.



**Founders of Sangam Laxmibai Vidyapeet**



## **VISION**

BRECW develops confident and articulative young women into dynamic Engineers equipped with skills, knowledge, values and an attitude to contribute to the society.

## **MISSION**

BRECW is committed to providing a challenging, enriching, safe and supportive technical learning environment

through its core values of responsibility, respect and compassion. Fosters intellectual, spiritual personal development of young women so that they develop the tools necessary to

lead meaningful lives.

Offers academic curriculum along with an extensive co-curricular program with the support of dedicated staff who ensure that students identify their strengths and develop their skills such as teamwork, leadership, creativity, and entrepreneurship. Develops independent, adaptable thinkers with a passion for learning, courage to take risks and initiative to apply what is learned.



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## About EEE

The EEE branch offers a wide variety of employment opportunities to its graduates. They can choose a career in Electronic Power Systems, Power Electronics, Electronics and Software, etc. Electrical and Electronic Engineering is an exciting and dynamic field. Electrical engineers are responsible for the generation, transfer and conversion of electrical power, while electronic engineers are concerned with the transfer of information using radio waves, the design of electronic circuits, the design of computer systems and the development of control systems such as aircraft autopilots. These sought-after engineers can look forward to a rewarding and respected career. A number of jobs in public and private sectors are open to them. The Department has well-established labs as per norms of the JNTUH. The department continues to add special equipment to the Projects Lab for carrying out better projects within the college.

## Vision

To produce globally competent Electrical and Electronics Engineers, researchers and entrepreneurs with high human values. To strive for excellence in education and research, meet the requirements of industry in the field of Electrical Engineering.

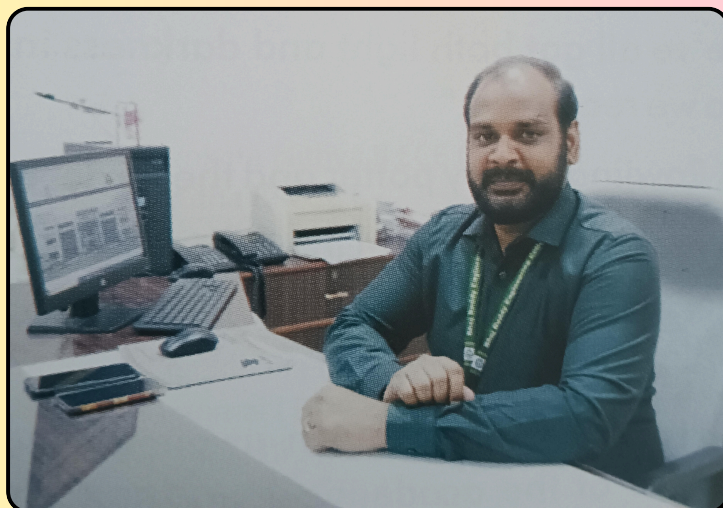
## Mission

To provide the form of Education to the students so that upon Graduation, they not only possess academic learning, but also learn and acquire knowledge for the benefit of the Society. To deepen and extend knowledge about the formation and utilization of Human capabilities. To create a transformative educational experience for students focused on deep disciplinary knowledge, problem solving, leadership, communication and Interpersonal skills, personal health and well-being.





### Principal's Message:



Dr C Berin Jones  
BE (CSE), ME (CSE), MBA, PHD (CSE)  
Member of IEEE, Professional and SIGITE  
Member of ACM Life Member of ISTE  
principal.brecw32@gmail.com;  
Mobile: 9490116667

Today the country is in great need of technically sound graduates having a strong aptitude to work with zeal and fervour. Our college focuses on offering the best of the Technical Education for the overall development of the students. When you walk out of the campus, you can be competent enough in carrying out all your personal as well as social responsibilities. Thanks to the Training and placement cell of our college which intends students be aware of the various job opportunities, imparts the necessary training and skills, and conducts campus interviews to recruit themselves in the final year of their graduation. It plays a crucial role in helping students to kick-start their career in their respective fields. I am pleased that the students are well-known about all curricular, co-curricular and extra-curricular activities along with substantial emphasis on sports and cultural activities. I specially wish to congratulate G Harshini, a student of Computer Science and Engineering of 2014-18 batch, for having topped the university examinations and bagged two gold medals from JNTUH and also to our senior faculty members who have been felicitated for their twenty years of service in our college. Further, I appeal to all the students to give their best and take the maximum advantages of all the available resources so as to have a brilliant career in future. Congratulations to all the contributors, student coordinators and faculty members of the Magazine Committee on the successful publication of this magazine. Together, we shall strive and cherish the journey to success.

**“Education is one thing no one can take away from you.” -ELIN NORDEGREN.**

### **HOD's Message:**



Mrs Racharla Manju Bhargavi  
MTech-Power and Industrial  
Drives HOD-EEE

On behalf of our students and faculty, it is my privilege to welcome all of you to the Department of Electrical Engineering at Bhoj Reddy Engineering College for Women. We take pride in our faculty, a team of highly capable and dedicated professionals, most of whom have academic experience and degrees from leading universities of India. We provide ample opportunities to our faculty and students, through in-house trainings, workshops and trainings outside the college campus for further growth and development in their areas of expertise.

We at EEE Department are committed with the following objectives:. The Department has taken up the task of developing competent Electrical engineers of high quality, capable of facing various challenges of the power situation in the country. To produce graduates with the necessary background and scientific skills to work professionally in several fields in particular with IT Industries and Power sectors. To train and encourage the graduates for personal and professional success with awareness and commitment to their ethical and social responsibilities, both as individuals and in team environments. To prepare and train the graduates who are proficient of maintaining and improving their technical competence through enduring learning, including entering and succeeding in an advanced degree program in a field of Science & Technology. We are actively involved in research and published over many research papers in national, International Journals and Conferences by our staff and students. We incorporate stronger ethical and enterprising values in our academics to face new challenges in the area of Electrical and Electronics Engineering.

### Student Contributions

S No	Batch No	Roll No	Name of the Student	Title of the Project	Internal Guide
1	1	15321A0215	M Himaja Reddy	Triac and zero crossing detector based light dimmer	R MANJU BHARGAVI
		15321A0232	Qamar Afroz		
		15321A0252	K Srija		
		15321A0212	T Dhatri		
2	3	15321A0239	M Pravallika	Password based circuit breaker	S ASHA KIRANMAI
		16325A0210	E Sindhu		
		15321A0216	P Jahnavi		
		15321A0260	B Varshitha		
3	15	15321A0209	P Bhargavi	Cooking gas leakage sensor and alarming system	V SRI LAKSHMI VANI
		15321A0258	B Uma Maheshwari		
		15321A0219	Laxmi Kuruvella		
		15321A0204	Anjali Garikipati		
4	4	15321A0225	K Mounika	Electronic eye controlled security system	V SRI LAKSHMI VANI
		15321A0210	D Brundha		
		15321A0249	M Sreenitha		
		16325A0203	M Keerthi		
5	2	15321A0256	A Swathi	Ultrasonic sensor based travel assistant for disable	S DEEPTI
		15321A0203	M Amulya		
		15321A0226	B Pranavi		
		16325A0209	K Sangeetha		
6	17	15321A0217	R Lakshmi Priya	Microcontroller based substation monitoring and control system with Gsm modem	S DEEPTI
		16325A0207	G Mounika		
		15321A0255	P Swapna Rani		
		15321A0241	T Sandhya		
7	14	15321A0242	V Santhoshi	Dam door opening system based on water inflow at the dam	SK VALI
		15321A0246	P Sindhu		
		15321A0221	A Manasa		
		16325A0211	M Sravani		
8	5	15321A0233	M Raghavi	Prevention and monitoring of three-phase loads	SK VALI
		14321A0230	V Ramya Sri		
		16325A0202	N Jyothi		
		16325A0201	G Hima Bindu		
9	9	15321A0243	Sk Sazida	Solar based automatic water level sensing and water pumping system	G POORNA
		15321A0235	A Rashmitha		
		15321A0240	G Sai Sphoorthi		
		16325A0205	M Mamatha		



## Faculty Contributions

### List of Staff Participated in Faculty Development Programme (FDP)

Name of the Participants	Title of FDP	Dates
V Sri Lakshmi Vani	5 day FDP on Research Methodology and IPR	5-8 August 2019
G Poorna	One week FDP on Contemporary Research and IPR	28 Jan to 1 Feb 2019



### Annual Technical Event

EEE department conducted Annual Technical Events Day-2019 on 08 March 2019 (Friday). The events conducted were as follows:

- 1) Paper Presentation
- 2) Poster Presentation
- 3) Working Models
- 4) Technical Quiz

All the events were conducted during 10:00 to 14:00Hrs. Event-wise venue and timings are as given below:

S.No	Name of the event	Room no	Time(Hrs)
1	Paper Presentation	G06,G12 NB	10:00 to 12:00
2	Poster Presentation	G04,G05 NB	10:30 to 12:30
3	Working Model	G11 NB	10:30 to 12:30
4	Technical Quiz	G06 NB	12:00 to 14:00

**Objectives:**

- Encourage students to engage in research activities.
- Enhance students' presentation and communication skills.
- Promote knowledge sharing and collaboration among students.
- Provide a platform for students to showcase their innovative ideas and research findings.

**Outcome:**

- The event successfully encouraged a culture of research and innovation within the department.
- Students received constructive feedback from the judges, helping them improve their research and presentation skills.
- Exceptional papers were awarded certificates and prizes, recognizing the hard work and dedication of the participants.

**Paper Presentation:**

The forenoon session started with Paper Presentations in two different streams namely Power Systems, Recent Trends in Engineering. For Paper presentation 15 minutes duration was allotted to each paper (12 minutes for oral presentation and 3 minutes for queries). Total 11 papers were accepted and 10 presented.

Prize winners for Paper presentation are as follows:

S.No	Name	Roll no	Year	Area of Specialization	Title	Prize
1	G Anjali	15321A0204	IV	Power Systems	Efficiency way of producing electricity from solar energy	I
	V Pooja	15321A0229				
2	Afreen	18321A0202	I	Power Systems	Plastic solar	II
	Saividya	18321A0241				



## TECHNICAL EVENT

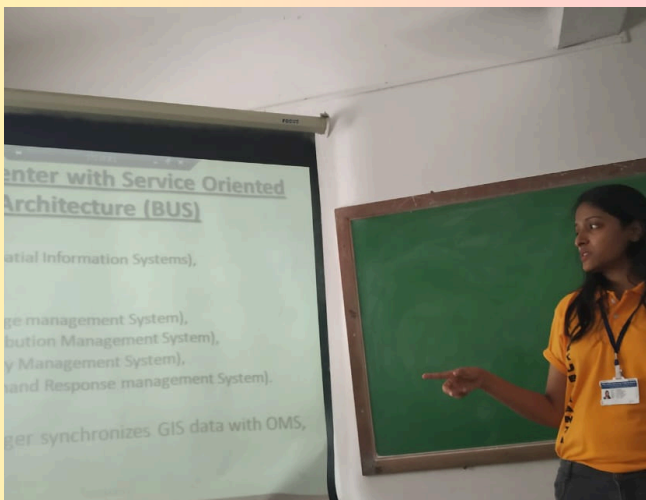
### Paper Presentations



Anjali and Pooja of 2nd EEE are presenting Paper Presentation



Bhavya and Srinidhi of 2nd EEE are presenting Paper Presentation



Afroz of 3rd EEE are presenting Paper Presentation



Afreen and Saividya pf 1st EEE presenting Paper Presentation

## **Poster Presentation**

Total 21 posters were accepted for presentation, all posters were presented.

Prize winners for Poster Presentation are as follows:

<b>S No</b>	<b>Name</b>	<b>Roll No</b>	<b>Year</b>	<b>Title</b>	<b>Prize</b>
1	M Sreenitha	15321A0249	IV	Gyro-Bus	I
	Rashmitha	15321A0245			
2	Harshitha Tiwari	14321A0244	II	Thermal Power Plant	II
	G Vandana	14321A0245			

### **Working Models**

Total 11 working models were accepted, out of which 11 working models were presented.

Prize winners for Working Models are as follows:

<b>S No</b>	<b>Name</b>	<b>Roll no</b>	<b>Year</b>	<b>Title</b>	<b>Prize</b>
1	N Aakanksha	17321A0201	II	Automatic Power Pump Controller	I
	P Amulya	17321A0203	II		
	Sakhi Jadhav	17321A0233	II		
	B Sathvika	17321A0236	II		
2	P Jahnavi	15321A0216	IV	Password Based Circuit Breaker	II
	G Madhuha	15321A0220	IV		
	V Santhoshi	15321A0242	IV		



### **Enrichment courses**

## **Advanced Protection System of 132/33 KV Substation and Introduction to SCADA and Smart Grid**

Bhoj Reddy Engineering College for Women, Hyderabad has organized Add on Program on “Advanced protection system of 132/33 KV substation and introduction to SCADA and Smart grid ” from 21-10-2019 to 26-10-2019. Our faculty Ms. S Asha kiaranmai, Assistant Professor, EEE department, extended welcome note for program to the participants. The Resource Person Mr. T Srinivas, Coign Consultants Private Limited, Ballad Estates, Tarnaka, Secundrabad took over the session and gave the brief introduction to the 132/33 KV substation.



In this program, the resource person explained about the Bus bar Protection, Transformer Protection, Communication and Relay Coordination and Switchgear and Circuit Breaker Protection.

In this program, the resource person explained about the Bus bar Protection, Transformer Protection, Communication and Relay Coordination and Switchgear and Circuit Breaker Protection. This Session helped to clarify the student's doubts and help to understand the concepts of Advanced protection system of 132/33 KV substation and introduction to SCADA and Smart grid.

All III B Tech EEE students have attended the session and cleared the queries regarding Advanced protection system of 132/33 KV substation and introduction to SCADA and Smart grid. Ms. R Manju Bhargavi, EEE HOD expressed her sincere gratitude and appreciation to the Speaker. The whole program was conducted by DEPT of EEE with the prior permission of the Principal.

## **MATLAB/Simulink**

Bhoj Reddy Engineering College for Women, Hyderabad has organized add on Program on “MATLAB/Simulink” from 18/03/2019 to 23/03/2019. Our faculty Mr. K Ravi Kumar, Assistant Professor, EEE department, extended welcome note for program to the participants. The Resource Person Mr. K Rajesh Kumar, Coign Consultants Private Limited, Ballad Estates, Tarnaka, Secundrabad. took over the session and gives the brief introduction to the MATLAB.



In this Programme, the resource person explained about the Basic MATLAB/Simulink, MATLAB Apps, Simulink Simulation, Lab project preparation and introduction to software and hardware used.

This Session helped to clarify the student's doubts understand the concepts of MATLAB/Simulink. The students also participated different hands on experience of different projects.

**Special Features of Bhoj Reddy Engineering College for Women:**

- Exclusively for women, with good discipline and security
- Women Protection Cell and Anti-Sexual Harassment Cell are established
- Centrally located and well connected by RTC bus services to various parts of the twin cities.
- The college is just 4 kms from Koti Bus Stop
- Housed in buildings with a total plinth area of 20,000 square meters
- Well-equipped and state-of-the-art laboratories as per the norms specified by JNTUH & AICTE
- Cultural and co-curricular activities are encouraged for overall personality development of students
- Technical Associations are formed to promote professional activities in each department
- Practical training to the faculty and students during summer vacation
- IEEE, ISTE, IETE, CSI student chapters are formed
- Alumnae Association is formed to provide a forum for alumnae interaction
- Post box facility is available within the campus
- More than 90% of the final year students have taken up live problems from industries as their design projects
- Well-designed classrooms with audio visual aids
- Indoor and outdoor sports and games facilities
- Banking facility is available adjacent to the campus
- Sangam Laxmibai Vidyapeet, the sponsor of the college, is a non-profit organisation
- Students are encouraged to write technical papers and to participate in seminars, workshops and conferences conducted by the college and other institutions
- Private hostels exclusively for women are available within 200 meters of the campus

**Editors Board**

Ms J Ashwini Kumari-Asst. Professor- EEE  
S Pooja - III EEE (22325A0206)  
S Gnaneshwari - III EEE (21321A0207)  
Humera - II EEE (23325A0205)  
Ruchitha - II EEE (23325A0211)  
J Sriya Deepthi - II EEE (22321A0228)

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