



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.

Academic Year : 2020 Volume - II

ELECTRIKA

Technical Magazine

Department of
Electrical and Electronics Engineering



Vision

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.

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 and 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 Lab Projects 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.

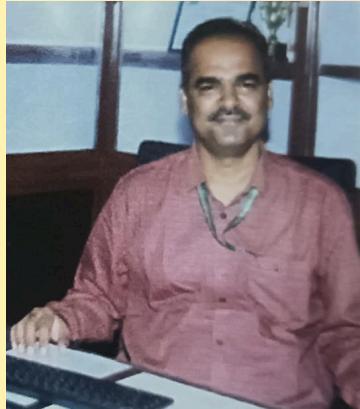
To deepen and extend knowledge about the formation and utilization of Human capabilities.

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:

Dear Students,



Dr J Madhavan
M.E, Ph.D, MISTE, MIE
Principal

Empowerment of girl students for their versatile progress through education is our cherished motto. BRECW is established to create, nurture, and shape technical professionals and leaders to create an inclusive and sustainable society in a national and international perspective. To achieve this vision, we launched undergraduate engineering degree programs that nurture many vibrant and promising professionals equipped with skills to face the ever changing social, economical and technical landscape of our country.

At BRECW, we provide high-end undergraduate education and research opportunities in new frontiers of Engineering and Technology with special focus towards Leadership & Innovation. Students are provided with opportunities for interaction with the experts from the Industry through Guest Lectures, Industrial Visits, Vocational Training (internships), Seminars and Workshops etc. At BRECW we ensure students to get the best start to their future career so that they could become smart and responsible citizens of our glorious country.

HOD's Message



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

On behalf of our 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 the India.

We 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.

List of staff participated Faculty development Programmes (FDP)

S.No	Name of the participant	Title of the FDP / professional development / administrative training program	Dates (from-to)
1.	S Deepti	ATAL Online FDP on Energy Engineering; IIT, Roorkee	23-27 November 2020
		ATAL Online FDP on Electrical Vehicles by NIT Pondicherry	05-09 October 2020
2.	R Manju Bhargavi	AICTE Sponsored online Short Term Training Programme (STTP) on “Advances in Power Electronics to Renewable Energy Systems and E- Mobility Applications” Department of Electrical and Electronics Engineering, Anurag University, Hyderabad, Telangana, India	16-21 November 2020
		Onlineworkshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education” byAICTE, New Delhi	2-6 November 2020
		AICTE Sponsored online Short Term Training Programme (STTP-III) on “ Integration, storage and control in Hybrid Energy Systems” by Department of Electrical & Electronics Engineering, Geethanjali College of Engineering & Technology, Hyderabad	31 August – 5 September 2020
		AICTE sponsored Online Short-Term Training Programme (STTP-II) on Integration, Storage and Control in Hybrid Energy System (HES) by Department of EEE, Geethanjali College of Engineering and Technology, Cheeryal(V), Medchal (D), Telangana, India	17-22 August 2029

S.No	Name of the participant	Title of the FDP / professional development / administrative training program	Dates (from-to)
		Five-Day National Level Online Faculty Development Program on “Essential Mathematic for Machine Learning” Department of Humanities and Sciences, VNR Vignana Jyothi Institute of Engineering & Technology, Bachupally, Hyderabad-90, Telangana, India	27-31 July 2020
		One-week workshop on effective online teaching using ICT tools, by VNR Vignan Jyothi Institute of Engineering and Technology	29 June 2020 to 4 July 2020
3.	S Asha Kiranmai	STTP-Arduino based Embedded System Design Karpaga Vinayaga College of Engineering and Technology, Chengalpattu, Tamilnadu	27-31 July 2020
		Workshop-Inculcating Universal Human Values in Technical Education AICTE	18-22 July 2020
4.	S Mayuri	AICTE Sponsored online Short Term Training Programme (STTP) on “Advances in Power Electronics to Renewable Energy Systems and E-Mobility Applications” Department of Electrical and Electronics Engineering, Anurag University, Hyderabad, Telangana, India	7-12 November 2020
		Online workshop on Universal Human Value on the theme “Inculcating Universal Human Values in Technical Education” AICTE, New Delhi	2-6 November 2020
		AICTE sponsored Online Short-Term Training Programme (STTP-II) on Integration, Storage and Control in Hybrid Energy System (HES) 'to be conducted by during (STTP-II) Department of EEE, Geethanjali College of Engineering and Technology, Cheeryal(V), Medchal (D), Telangana, India	17-22 Aug 2020

EEE Department conducted Annual Technical Event on 10 March 2020

The events conducted were as follows:

- 1) Paper Presentation
- 2) Poster Presentation
- 3) Working Models
- 4) Circuitrix



All the events were conducted during 10:00 to 16:00Hrs. Event-wise venue and timings are as given below

S No.	Name of the event	Room no	Time(Hrs)
1	Paper Presentation	G07,G09 NB	10:00 to 12:00
2	Poster Presentation	G04 NB	10:30 to 12:30
3	Working Model	G11 NB	10:30 to 16:30
4	Circuitrix	G06 NB	13:00 to 16:00



Paper Presentation: The forenoon session started with Paper Presentations in two different streams namely Power Systems, Power Electronics & Non-Conventional Energy Sources. For Paper presentation 15 minutes duration was allotted to each paper (12 minutes for oral presentation and 3 minutes for queries). Total 12 papers were accepted and presented. Prize winners for Paper presentation are as follows:

Sn.no	Name	Roll no	Year	Area of Specialization	Title	Prize
1	Sowmya Sri M	17321A0243	III	Power Systems	Smart Grid	I
2	Mahima Surekha	17321A0218	III	Power Systems	Micro Grid	II
	Samhitha M	17321A0234				
3	Aakanksha N	17321A0201	III	Power Electronics & Non-Conventional Energy Source	Hyperloop	I

Poster Presentation: Total 15 posters were accepted for presentation and all posters were presented. Prize winners for poster presentation are as follows:

S.No	Name	Roll Number	Year	Title	Prize
1	Sowmya K	16321A0250	IV	Wireless Electricity	I
	Sai Sudha G	16321A0238			
2	Joshika R	18321A0219	II	Thermal Power Plant	II
	Nissi Rebca	18321A0235			
3	Praveena K	17321A0225	III	Mars orbiter mission	Special
	Sabiha Shaik	17321A0229			

Working Models:

Total 14 working models were accepted, out of which 11 working models were presented.

Prize Winners for Working Models are as follows:

S No	Name	Roll no	Year	Title	Prize
1	Vaishnavi K	18321A0260	II	Railway Security Monitoring system using GSM Technology	I
	Sai Shravani P	17321A0231	II		
	Supraja Reddy	18325A0258	II		
2	Shivani Ch	18321A0246	II	Design of Rocker Bogie Mechanism	II
	Shruthi K	18321A0248	II		
	Deepika S	18321A0212	II		
	Srilatha Ch	18321A0257	II		
3	Srinidhi P	17321A0246	III	Advanced wireless power transfer system	Special

Circuitrix: For circuitrix total 18 teams were participated, each team consist of 3 members.
Conducted in 4 rounds.

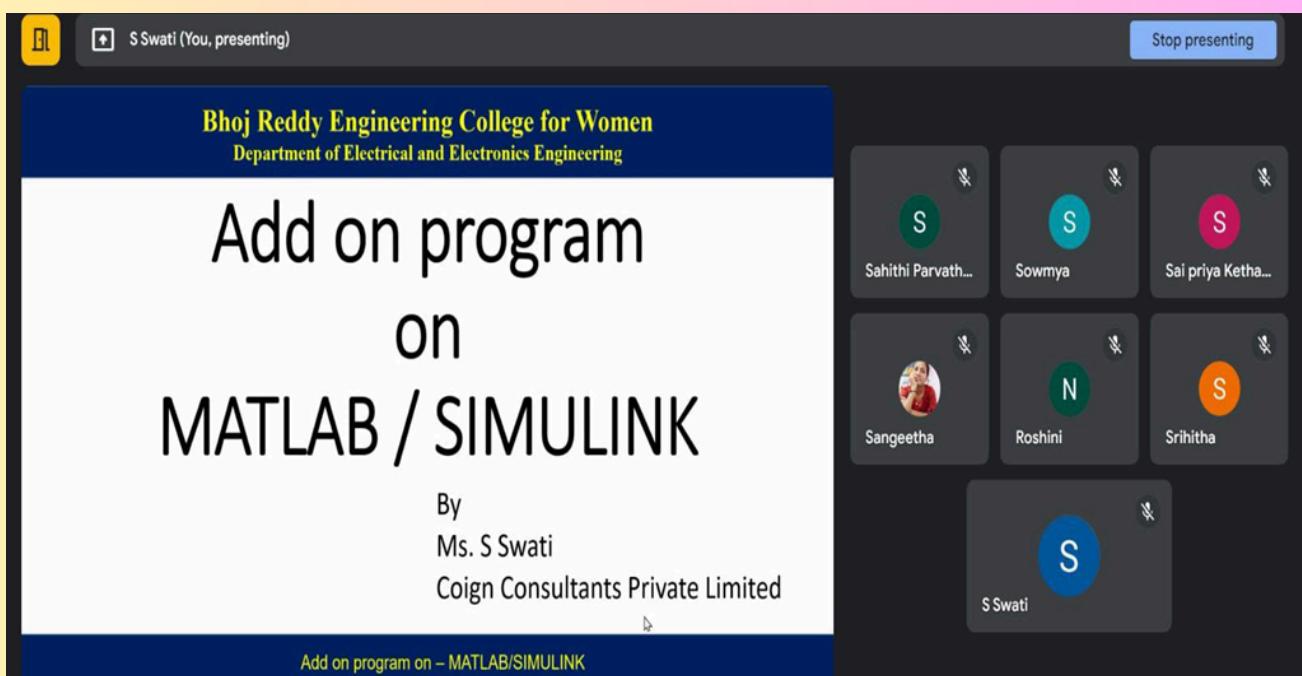
Prize winners for Circuitrix are as follows:

S.No.	Name	Roll no.	Year	Prize
1	Srilatha Ch	18321A0257	II	I
	Samyuktha P	18321A0242	II	
	Niharika L	18321A0232	II	
2	Amulya P	17321A0203	III	II
	Shailaja A	17321A0211	III	
	Manasa M	17321A0220	III	

Enrichment Courses

MATLAB/SIMULINK

Bhoj Reddy Engineering College for Women, Hyderabad has organized an Online add on Program on “MATLAB/SIMULINK” from 23/11/2020 to 28/11/2020. Our faculty Mr. Ravi Kumar, Assistant Professor, EEE department, extended welcome note for program to the participants. The Resource Person Ms. S Swathi Reddy, Coign Consults Private Limited took over the session and gives the brief introduction to the MATLAB/SIMULINK



In this program, 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 to understand the concepts of MATLAB/SIMULINK.

All II, III B Tech EEE students have attended the session and cleared the queries regarding MATLAB/SIMULINK. Ms. R Manju Bhargavi, EEE HOD expressed her sincere gratitude and appreciation to the Speaker. The whole Program is conducted by Dept. of EEE with the prior permission of the principal.

Design of Solar PV Systems

Bhoj Reddy Engineering College for Women, Hyderabad has organized an add on Program on “Design of solar PV Systems” from 10-02-2020 to 15-02-2020. Our faculty Ms G Poorna, Assistant Professor, EEE department, extended welcome note for program to the participants. The Resource Person Mr B Purushotham Chary, Coign Consultants Private Limited, Ballad Estates, Tarnaka, Secundrabad took over the session and gives the brief introduction to the Design of solar PV Systems.



In this Programme, the resource person explained 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 Programme also helps the students in doing their mini and major projects using PV systems.

This Session helped to clarify the students to help to understand the concepts of Design of solar PV Systems. The students also participated different hands on experience of different projects.

All IV B Tech EEE students have attended the session and cleared the queries regarding Design of solar PV Systems. Ms. R Manju Bhargavi, EEE HOD expressed his sincere gratitude and appreciation to the Speaker. The whole program is conducted by Dept. of EEE with the prior permission of the principal.

Major Project List

S.No.	Roll Number	Name of the Student	Title of the Project
1	17321A0203	Amulya P	Analysis of Power Charges Before And After Solar Power Installation At BRECW
	17321A0209	Deepika Yapala	
	18325A0204	Jogi Haripriya	
	17321A0211	Hari Keerthi Thumma	
2	17321A0259	Vijaya Laxmi Purnapanda	Electronic Interlocking In Railway Signalling System
	18325A0210	Kummarikunta Sathwika	
	17321A0255	Uma Barmavath	
	17321A0247	Srinidhi Yadla	
3	17321A0232	Sai Sri Kanya Kencha	Analysis of Load Loss Reduction By Improving The Load Side Power Factor At BRECW
	17321A0205	Anusha Guddeti	
	18325A0201	Palleboina Anusha	
	18325A0205	Gudipalli Lakshmi Deepika	
4	17321A0258	Vandana Gunda	WSN Based Covid 19 Symptoms Detection System
	17321A0226	Priyanka Kudithi	
	17321A0225	Praveena Koninti	
	17321A0216	Jyotsna Guddati	
5	17321A0233	Sakhi Jadhav	Research And Simulation Of DC Microgrid Three-Phase AC-DC Converter Control Strategy Based On Double Loop
	17321A0257	Vaishnavi Sanjannagari	
	17321A0222	Mowneka Sabavath	
	18325A0202	Gummadi Divya	
6	18325A0208	Gugloth Mounika	Intelligent Coal Mine Monitoring System Based On The Lora-Cloud
	17321A0245	Sridevi Annadi	
	17321A0219	Mahitha Bonugula	
	17321A0212	Harika Gaddam	

Major Project List

S.No.	Roll Number	Name of the Student	Title of the Project
7	17321A0201	Aakanksha Namilikonda	Implementation Of PLC Automation For Effluent Treatment Plant Recirculation Pump House
	17321A0213	Harshitha Tiwari	
	17321A0221	Manichandana Pathanaboina	
	17321A0202	Adhvithi Potharaju	
8	17321A0235	Sanjuna Gopu	Sensorless Dc-Link Control Approach For Three-Phase Grid Integrated PV System
	17321A0243	Sowmya Sree Maringanti	
	17321A0248	Suchitha Mothkuri	
	17321A0254	Tejaswi Gummadavelli	
9	17321A0246	Srinidhi Pavushetty	Renewable Powered Portable Weather Update Station
	18325A0212	Jakinboina Vinnela	
	17321A0204	Anjali Guntur	
	17321A0251	Sushmitha Jakkani	
10	17321A0244	Sreeja Reddy Chiligireddy	Electric Vehicle Charge–Discharge Management For Utilization Of Photovoltaic By Coordination Between Home And Grid Energy Management Systems
	17321A0260	Vinitha Danthala	
	17321A0252	Swarnalatha Burra	
	17321A0240	Shrishna Naini	
11	17321A0238	Shravya Chilukuri	Analysis Of Hybrid Storage System In DC Microgrid
	17321A0229	Sabiha Shaik	
	18325A0209	Angadi Omkari	
	17321A0256	Gottemukkala Uma Maheswari	
12	17321A0234	Samhitha Sree Meghi	Development Of An IOT Driven Building Environment For Prediction Of Electrical Energy Consumption
	18325A0203	Avusula Hari Chandana	
	17321A0208	Chaturya Nagubandi	
	17321A0207	Chandana K	

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 practical 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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