



Bhoj Reddy Engineering College for Women



(Sponsored by Sangam Laxmibai Vidyapeet, Accredited by NAAC with Grade A and Approved by AICTE and Affiliated to JNTUH)
Vinaynagar, I S Sadan Crossroads, Hyderabad – 500 059, Telangana

ELECTRIKA 2025

Technical Magazine

Volume - VII

Department of Electrical and Electronics Engineering



Website: www.brecw.ac.in

About BRECW

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 premiere engineering colleges in the state.

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 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.



Founders of Sangam Laxmibai Vidyapeet



Contents	Page Number
About EEE,Vision & Mission	1
Programme Outcomes (PO's)	2
PEO's and PSO's	3
Principal's & HOD's Message	4
JIJNASA Technical Event	5-7
Anveshana Student Achievements	8
Faculty Publications	9-10
Faculty Attended FDPs	11-12
Student Placements Data	13
Special Features & Editors Board	14



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 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.



Programme Outcomes (PO's)

PO1 - Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2 - Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3 - Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4 - Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5 - Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6 - The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7 - Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8 - Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9 - Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10 - Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO11 - Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12 - Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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.

Principal's Message



Dr. G. Shyama Chandra Prasad
M.Tech(CSE), Ph.D, LISTE,
Principal

Dear Students,

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. To align with the curricula, we have excellent faculty, state-of-the-art infrastructure and laboratories. Spacious green campus, good library and peaceful atmosphere ensures that learning becomes a wonderful experience. I firmly believe that our institute is more than just a place to learn. It gives you a chance to grow by equipping with everything you need to achieve excellence. 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.

I wish all the students a grand success in their career and prosperity in their future life.

HOD's Message

It is my pleasure to present the Department of Electrical and Electronics Engineering at Bhoj Reddy Engineering College for Women, a department that has consistently strived towards academic excellence, innovation, and the all-round development of students. Our department is strengthened by a team of dedicated and experienced faculty members who are passionate about teaching, research, and mentoring future engineers. Electrical and Electronics Engineering is one of the most fundamental and evergreen branches of engineering, forming the backbone of modern civilization. From power generation, transmission, and distribution to renewable energy technologies, electric vehicles, automation, smart grids, and information technology, the contributions of EEE professionals are indispensable to societal progress and sustainable development. After completing B.Tech in EEE, graduates have abundant opportunities in core industries, power and energy sectors, IT industries, public sector undertakings, higher education, research, and entrepreneurial ventures.

The Department of Electrical and Electronics Engineering is committed to developing technically competent engineers equipped with strong analytical abilities, professional ethics, and social responsibility. Our academic practices emphasize experiential learning, teamwork, leadership qualities, and continuous skill enhancement, enabling students to face real-world challenges with confidence.

We actively encourage a research-driven culture within the department. Faculty and students have published numerous research papers in reputed national and international journals and conferences. Along with technical competence, we incorporate ethical values, innovation, and an enterprising mindset into our academic framework to prepare students for emerging global challenges.

One of the proud milestones of the department is the achievement of two Gold Medals, awarded to our students who graduated in the years 2016 and 2022, reflecting the dedication, discipline, and academic brilliance of our students and faculty.

The Department of Electrical and Electronics Engineering continues to move forward with a vision of nurturing knowledgeable, skilled, and socially responsible engineers who contribute meaningfully to the profession and society.



Dr. S. Asha Kiranmai
M.E.(EE) , Ph.D(OU)
LMISTE, AMIE
HOD(EEE)

JIJNASA Technical event

As part of the national-level technical event JIJNASA-2025 held on March 6th 2025, 9:00 AM to 4:30 PM, the EEE department organized various event such as paper presentations, poster presentations and working models, for participants of UG and PG from different colleges.

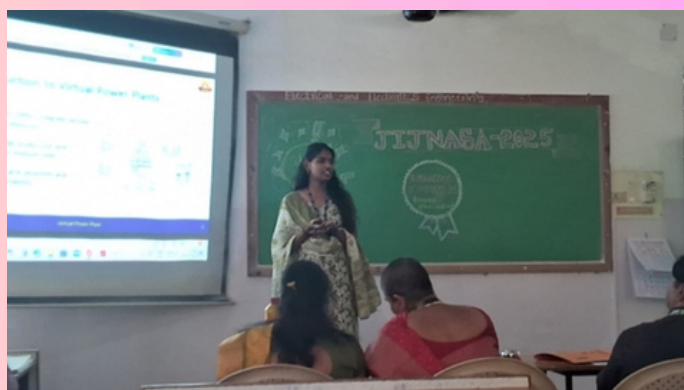


Art by EEE Students

Paper Presentation



Paper presentation by students from other college



Paper presentation By BRECW Student

The forenoon session started with paper presentations in specified topics at NBG12 from 11.00 to 12.30 and 14:00 to 16:00 on March 6th, 2025. The participants presented their ideas within the allotted time using Microsoft power point. For the paper presentation, 10 minutes were allotted to each paper (8 minutes for oral presentation and 2 minutes for queries).

Working Models

The event serves as a platform for students, UG or PG or Diploma Students. Cross-college teams are allowed to showcase their innovations, research projects, and working models in various domains of electrical and electronics engineering. The event covers a wide range of topics within the EEE field, including but not limited to: power systems and renewable energy, control systems and automation, Robotics and automation, Internet of things and wearable technology.



Coordinates Group Photo



Working Model Exhibition

Working Model Winners



3rd Prize Winners :K Sowbhagya,P Shivani and G Reshma from IV-EEE



1st Prize winners: B Tanvika and B Vishali from IV EEE

Poster Presentation

This contest is open for all UG or PG or Diploma Students only. Cross-college teams are allowed. The topics for Poster Presentation are emerging areas in field of a Electrical Engineering. A maximum of two participants are allowed per team. Posters should be drawn on an A3 sized sheet. The total time duration for poster explanation for poster is 8 minutes along with Q & A section.



During Poster Presentation



During Poster Presentation

Poster Presentation Winners



1st Prize Winners: PadmaNehru and Chindaliya Aachal
from I-EEE



3rd Prize Winners: A Sowmya and Sahithi Adepu
from IV-EEE

Anveshana Student Participants in 2024-2025

We are delighted to share the following:

Anveshana Science & Engineering Fair 2024-25 was organized on 7 February 2025 and 8 February 2025 at Vishweshwaraya Bhavan, Khairtabad.

A total of 4 teams (each team consists of 4 students - 2 Engineering EEE/ECE and 2 School) from BRECW-MHGHS exhibited working models in the fair.

Few faculty from BRECW and a teacher from MHGHS accompanied the students. Two teams have won consolation prize and best 100 questions & answers prize. The management sponsored the expenses (Banners, Travelling, Refreshments) to participate in the event. The HOD-EEE, HOD-ECE and Principal-MHGHS has coordinated excellently in achieving this success.



Students and Staff at the Event



G Pavani , A Abhinaya ,N Sandhya and K Sindhu
with the staff



T Vandana, M Sai Geetha, P Aswini and P Sindhu
with the staff

Faculty Publications

1. S. Deepti, A. Sahithi, M. Nandhini, G. Lahari published “Smart Monitoring of Plants and Automatic Irrigation” in Technische Sicherheit (Technical Security), 2025, E-ISSN 1434-9728/2 191-0073, UGC and Scopus.
2. S. Deepti, S. Gnaneshwari, B. Akshaya, A. Sai Srija published “Automatic Safety Grill System for Platform Gap Prevention and Easy Luggage Transport” in Technische Sicherheit (Technical Security), 2025, E-ISSN 1434-9728/2 191-0073, UGC and Scopus.
3. J. Ashwini Kumari, K. Sowbhagya, P. Shivani, G. Reshma published “Smart Ration Distribution System Using RFID and Biometric” in Staps Journal, 2025, ISSN 1782-1568, UGC.
4. J. Ashwini Kumari, N. Priyanka, G. Praneetha, K. Usha published “Wireless Powered Hitch 4-Tain” in Technische Sicherheit (Technical Security), 2025, E-ISSN 1434-9728/2 191-0073, UGC and Scopus.
5. B. Dhanadeepika, Pavani D, Gotti Parthi, Abhinaya Avula published “Bomb Detection and Diffusion Robot With Live Alerts and Video Streaming” in Technische Sicherheit (Technical Security), 2025, E-ISSN 1434-9728/2 191-0073, UGC and Scopus.
6. R. Manju Bhargavi, G. Sagarika, S. Rakshitha, G. Bhavya published “Smart Dustbin Integration” in Staps Journal, 2025, ISSN 1782-1568, UGC.
7. R. Manju Bhargavi, S. Pooja, M. Gorrani, G. Mounika published “Enhanced Power Factor Correction and Torque Ripple Mitigation in BLDC Drive” in Volume 11, Issue 5, May 2025, ISSN 1782-1568, UGC and Scopus.
8. S. Mayuri, M. Prasanna Reddy, S. Sami Azeem, K. Vijaya Lakshmi published “Coal Mine Safety Robot With Hazard Detection and First Aid Assistance” in Technische Sicherheit, 2025, E-ISSN 1434-9728/2 191-0073, UGC and Scopus.
9. S. Mayuri, P. Nagaraju published “Mathematical Modeling of Multi-Machine System to Improve Power Quality” in 2024 4th International Conference on Mobile Networks and Wireless Communications, ISBN 979-8-3315-2834-8, IEEE.
10. K. Uma Rani, K. Shruthi, Punavi Rochisha, U. Naveena published “Power Savings and Sensorless Vector Control Method in IPMSM” in IJRASET, Volume 13, Issue V, May 2025, ISSN 2321-9653, UGC and Scopus.
11. Swathi Sankepally, A. Sowmya, P. Harika, Farha Anjum published “Grid-Connected Wind–Solar Cogeneration Using Back-to-Back Voltage Source Converters” in Technische Sicherheit (Technical Security), Vol. 25, Issue 5, 2025, E-ISSN 1434-9728/2 191-0073, UGC and Scopus.
12. Swathi Sankepally, R. Nandini, B. Pranitha, P. Srija published “Power Quality Enhancement and Fault Compensation in Distribution Systems” in Staps Journal, Vol. 11, Issue 5, 2025, pp. 910-924, ISSN 1782-1568, UGC.
13. Ch. Prasanna Lakshmi, A. Sruthi Reddy, M. Siri Chandana, P. Vasumathi published “IntelliBot: Autonomous Garbage Collector” in Journal of Interdisciplinary Cycle Research, May 2025, Page No. 177, ISSN 0022-1945, UGC.
14. Ch. Shravani, M. Laxmi Prasanna, B. Ashwini, G. Shreya published “Grid to Vehicle and Vehicle to Grid Technology Using Microcontroller” in Staps Journal, 2025, ISSN 1782-1568, UGC.
15. Dr. S. Asha Kiranmai, K. Vanya, A. Jyothi, D. Pallavi published “Automatic Grass Cutter and Garden Cleaner” in Computer Research and Development, Volume 25, Issue 5, ISSN 1000-1239, UGC and Scopus.
16. Dr. S. Asha Kiranmai, B. Vishali, B. Tanvika, A. Poojitha published “ATM Theft Detection, Auto Arresting and Anti-Domination Systems” in Computer Research and Development, Volume 25, Issue 5, ISSN 1000-1239, UGC and Scopus.
17. S. Deepti, T. Vandana, K. Navya, K. Spandhana published “Automatic Blackboard Eraser Robot” in Computer Research and Development, 2025, ISSN 1000-1239, UGC and Scopus.
18. R. Manju Bhargavi, L. Pravalika, Mediga Tejasi, Sri Harika published “Dark Vision Patrolling Robot” in International Journal of Analytical and Experimental Modal Analysis, 2025, ISSN 0886-9367, UGC.
19. Dr. S. Asha Kiranmai, P. Lohitha, J. Sriya Deepti, Humera Nazeer published “SCADA-Based Monitoring & Control System of NSES” in Computer Research and Development, 2025, ISSN 1000-1239, UGC and Scopus.
20. S. Swathi, K. Jyothsna, M. Madhuri, P. Shivani published “Smart Garbage Segregation and Real-Time Monitoring System” in Staps Journal, 2025, ISSN 7021-2008, UGC.

Faculty Attended FDPs

S.No	Name of the Participant	Designation	Title of the FDP/Training Program	Dates (From - To)
1	S Deepti	Associate Professor, HOD-EEE	AICTE Training And Learning (ATAL) Academy Faculty Development Program on Soft Computing Techniques Applied to Power Systems	16-21 December 2024
2	R Manju Bhargavi	Associate Professor	One Week Online Short Term Training Program (STTP) on "Recent Trends in Intelligent Control and Electric Vehicles	3-8 March 2025
3	Dr S Asha Kiranmai	Associate Professor	Faculty Development Program (FDP) for delivering the Wadhvani Ignite Course	16-12-2024 to 23-01-2025
4	Swathi Sankepally	Associate Professor	One Week Online Short Term Training Program (STTP) on "Recent Trends in Intelligent Control and Electric Vehicles",	3-8 March 2025
5	Ms S Mayuri	Associate Professor	One Week Faculty Development Program on "Future Ready Grids: Renewable Integration, Electric Vehicles and Sustainable Smart Technologies"	17- 21 March 2025

S.No	Name of the Participant	Designation	Title of the FDP/Training Program	Dates (From - To)
6	J Ashwini Kumari	Assistant Professor	Five Day Online Faculty Development Program on AI &-ML Applications to Renewable Energy Systems and Electric Vehicles"	20 -24 January 2025
7	B Dhanadeepika	Assistant Professor	Five Day Online Faculty Development Program on AI &- ML Applications to Renewable Energy Systems and Electric Vehicles"	20 -24 January 2025
8	Ms K Uma Rani	Assistant Professor	Five Days Short Term Training Programme on Recent Developments in Electrical Engineering Systems (RDEES-2025)	17-21 March 2025
9	Ch Shravani	Assistant Professor	One Week Faculty Development Program on "Future Ready Grids: Renewable Integration, Electric Vehicles and Sustainable Smart Technologies	17-21 March 2025
10	Ms Ch Prasanna Lakshmi	Assistant Professor	Workshop on Smart Technologies,For Sustainable Energy Systems jointly.	6-11 April 2025

Students Placement Data 2025

S.No	Name	Company name	Package
1	Jella Sriya Deepthi	Infosys	6.5 LPA



TATA CONSULTING ENGINEERS LIMITED



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
- Syeda Sana Fatima - IV EEE (22321A0229)
- M Sai Priya - III EEE (23321A0225)
- B Sreeja - III EEE (23321A0231)
- L Sanjana - II EEE (24321A0237)
- P Anjali-I EEE (25321A0204)

Address

Vinaynagar, I S Sadan Crossroads, Saidabad
Hyderabad - 500 059, Telangana
Telephones: 040 2453 1725/257 (EPABX)
Email: principal@brecw.ac.in
hod.eee.brecw@sv-edu.in
Website: www.brecw.ac.in