

UJWALA NEWSLETTER

VISION:

To develop comprehensively trained and Socially responsible women electrical and electronics engineers with competencies and capabilities to adapt to new challenges.

MISSION:

1. To empower the students adept at latest technologies by providing innovative learning environment.
2. To cultivate interdisciplinary research mind-set and outlook to develop engineering solutions.
3. To inculcate ethical behaviour and professional attitude in order to embrace holistic concept of living.



BVRIT HYDERABAD

College of Engineering for Women



BVRIT HYDERABAD
College of Engineering for Women

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**Department of Electrical &
Electronics Engineering**

July 2022, Volume 9, Issue 1

Dr Ch Sunil Kumar
Professor & HoD
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Editorial Board:

1. Dr. Ch. Sunil Kumar, HoD & Prof, EEE
2. Mr. M. Rupesh, Asst. Prof, EEE
3. Dr. S Faith Manjusha Vijayalatha, Asst. Prof, BS&H
4. Ms. Dasari Khyathi, EEE, 1st Year
5. Ms. Y. Anusha, EEE, 1st Year

About the Department

Department of Electrical and Electronics Engineering (EEE) was established in the year 2012 with an intake of 60 students and affiliated to Jawaharlal Nehru Technological University Hyderabad, Hyderabad. The department is supported by experienced faculty and has full-fledged laboratories to meet the demands of present day scenario. Unlike the regular curriculum, department of EEE provides more practical exposure beyond the syllabus deliberated from II year onwards. The main aim of the Electrical and Electronic Engineering program is to develop enterprising professionals who have an innovative disposition, the confidence and abilities to assume leadership roles in technology, business and the community. The program is designed to give the skills essential for graduate engineers to become immediately employable in the global competitive environment. Department provides sufficient training with industry oriented people with hands on experience which help them to have an edge over others in this competitive world where science and technology are moving in a galloping pace. Presently department is headed by Dr.Ch.Sunil Kumar, M.Tech, Ph.D, MISTE. His research areas of interest are Electrical Power Systems, Deregulation, Electrical machines and magnetic fields.

Program Educational Objectives

- 1: Propose effective solutions for complex Electrical and Electronics Engineering problems using modern techniques
- 2: Excel in their career and compete with their global peers in Techno-Scientific field
- 3: Exhibit good communication skills, ethical behaviour & social perception.
- 4: Stimulate economic growth and job Opportunities through entrepreneurship.

HOD Message



Dr. Ch Sunil Kumar

M.Tech, Ph.D

Greetings from the EEE Department, BVRIT HYDERABAD College of Engineering for Women. It gives immense pride & pleasure to lead the Electrical & Electronics Engineering Department of this Esteemed & Prestigious Institute.

The department has specialized faculties in all important areas of Electrical Engineering such as Power Systems, Power Electronics & Drives, Control & Automation, Instrumentation. Internet of Things etc. The department works in the direction of nurturing the faculties and exposing them to world class infrastructure by providing world class training outside college campus. We provide ample opportunities to our faculty and students under the Departmental Association Deeptha through in house trainings, workshops Guest Lectures and Non technical Activities. Our Department consists of various laboratories like Basic Electrical Engineering, Electrical Machines, Power Electronics, Control Systems, and Measurements equipped with new technological setups giving the scope to all students having hands on experience individually. Which will increase the confidence to face the practical problems in the field of Electrical Engineering.

Industrial Visits and Internships are regularly planned to improve the practical Knowledge of the students and have a interaction with the industry people. We continue to play a leading role in our discipline which leads us towards creating innovative and effective professional graduate community which would vivacious and provide continuous learning. I extend my warm wishes to all budding Electrical Engineers.

Faculty Relived



Dr.P.Srinivas
Ph.D
Assistant Professor
DoR: 30th November 2022

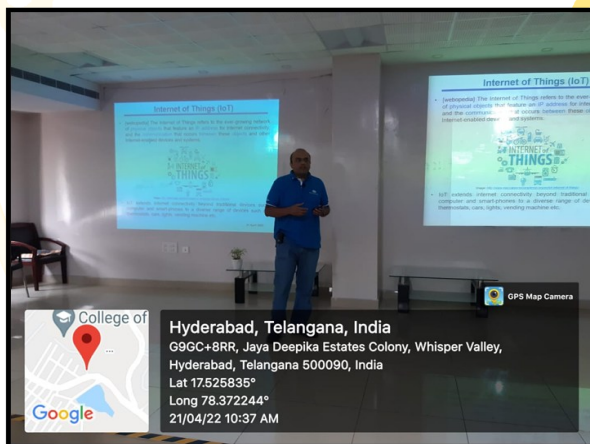


Workshops

Events organized

Guest Lectures

- A Guest Lecture on “Internet of Things” was organized by EEE department, BVRIT HYDERABAD College of Engineering for Women, Hyderabad on 21st April 2022. The resource person of this program is Dr. Sachin Chaudhari, Associate Professor, from IIITH. Nearly 221 participants from II- & III-year EEE along with II-year (A&B) ECE students attended the session. **57 students**.



The Department of Electrical and Electronics Engineering conducted “**Food Making without Heat**” as a part of Sankranthi Celebrations, Online on 8th January 2022. 7 members participated. Ms.GVS.Snehitha (20WH1A0240) from II EEE got **Second Prize** in the competition.



The Department of EEE organized events “**Technical Treasure Hunt and Collage**” for the II and III EEE students on 10th June 2022. Nearly 41 students participated in Technical Treasure Hunt and 9 students participated in Collage competition.



- Workshop on “Fundamentals of IoT & Programing” at VEDIC for I & II EEE students by III & IV EEE Students on 5th and 6th April 2022.

Students Achievements

- ◆ The Department of EEE organized events **“Technical Treasure Hunt and Collage”** for the II and III EEE students on 10th June 2022. Nearly 41 students participated in Technical Treasure Hunt and 9 students participated in Collage competition.
- ◆ P Sanjana & I Alekhya of II EEE won II Prize for presenting a paper on Biomass at BVRITH, on 3rd and 4th of January 2014.
- ◆ Ms. Bhushra, Ms. Nafeesa and R.Shivani of 2020 Batch student Participated in the **Poster presentation** on “Artificial Intelligence in Power systems” at Anurag University, Hyderabad for the event "DAKSHA" on 22nd April 2022.
- ◆ Ms. K.Saihithya and Ms. A.Navya of 2020 Batch student Participated in the **Poster presentation** on “Insect Detection and pesticides spraying using Drones” at Anurag University, Hyderabad for the event "DAKSHA" on 22nd April 2022.
- ◆ Ms.G.V.Snehitha and Ms. R. Likitha of 2020 Batch student Participated in the **Poster presentation** on “Paper Battery” at Anurag University, Hyderabad for the event "DAKSHA" on 22nd April 2022.
- ◆ Ms.K.Deekshitha (20WH1A0242) and Ms.R.Likitha (20WH1A0243) of II EEE Students were participated in **Basketball competition and won Runner up** on 27th April 2022.
- ◆ Ms.A.Bhuvaneshwari (20WH5A0203) and Ms.K.Keethana (20WH5A0204) of III EEE got **Second Prize in Paper presentation event with Title as “Implementation and design of Hybrid Energy Storage System in DC Microgrid Application”** organized by the IEEE Student branch association with Department of EEE, B.V.Raju Institute of Technology, Narsapur on 17th and 18th June 2022.
- ◆ Ms.L.Supriya (20WH1A0223), Ms.D.Hema (20WH1A0209) and Ms.Ch.Nethra (20WH1A0208) of II EEE in **Paper presentation event with title as “IoT based Smart Grid”** organized by the IEEE Student branch association with Department of EEE, BV Raju Institute of Technology, Narsapur on 17th June 2022.

- ◆ Ms.A.Bhuvaneshwari(20WH5A0203),Ms.B.Vaishnavi(20WH5A0202),Ms.N.Rishitha(19WH1A0202) and Ms.B.Lakshmi Tejaswini(19WH1A0206) team from EEE Departement was shortlisted for **Phase-3 in Smart India Hackathon (SIH) 2022 with an idea of “CaRe – Can Recycling”** on 29th June 2022 under the mentorship of

Industrial Visits

- ◆ Dr.P.Srinivas, Assistant Professor in EEE Department attended **Industrial Visit at T-works** on 3rd January 2022.
- ◆ 49 students from II year II semester are taken to Industrial visit to **“Nagarjuna Sagar Hydro Power Plant** on 2nd May 2022. Ms.B.Sujatha, Associate Professor, Mr.M. Rupesh, and Dr.P.Srinivas, Assistant Professors of EEE Department and Mr.P.L.Srinivas, Lab Assistant accompanied the students.



- ◆ III EEE students were taken to visit to **“Sriram Sagar Hydro Electric Plant”** on 28th May 2022.



- ◆ Ms.B.Geetha Vani (20WH1A0206) of II EEE Student went for **Industrial Visit to ABB Global Industries Services Limited, Hyderabad** on 17th June 2022.

Faculty Achievements

- ◆ Mr.R.Guruswamy, Associate Professor from EEE Department reviewed paper titled **“Design of High-performance Fuzzy-predictive Controllers for a Photovoltaic/battery Pumping System Protection and Control of Modern Power Systems”** for Protection and Control of Modern Power Systems on 4th January 2022.
- ◆ Dr. P. Srinivas reviewed two IEEE conferences papers of NIT Raipur from 17th to 22nd January 2022.
- ◆ Mr.M.Rupesh, Assistant Professor in EEE Department Paper accepted with title as **“Fuzzy and Anfis controller to improve the power quality of grid connected PV system with cascaded multilevel inverter”** in international journal of electrical & electronics Research Scopus journal on 4th January 2022.
- ◆ Dr.P.Srinivas, Assistant Professor in EEE Department attended Conference Paper communicated with entitled **“Single-phase seven-level inverter with multilevel boost converter for solar photovoltaic systems”** on IEEE Second International Conference on Power, Control and Computing Technologies ICPC²T 2022 on 4th January 2022.
- ◆ Ms.B.Sujatha, Associate Professor, Ms.K.Bhavya, Assistant Professor and Ms.P.Subhashitha, Assistant Professor from EEE Department submitted the paper on **“Solar-Wind Hybrid Power Generation System”** for **NATIONAL CONFERENCE ON ELECTRICAL SCIENCES, NCSE-2021**, organized by Department of EEE, Annamacharya Institute of Technology and Sciences (AUTONOMOUS), Rajampet, YSR Kadapa(dt), Andhra Pradesh on 10th January 2022.
- ◆ Ms.B.Sujatha, Associate Professor from EEE Department presented Paper for **NATIONAL CONFERENCE ON ELECTRICAL SCIENCES, NCSE-2021**, organized by Department of EEE, Annamacharya Institute of Technology and Sciences(AUTONOMOUS), Rajampet, YSR Kadapa(dt), Andhra Pradesh on 11th January 2022.
- ◆ Dr.P.Srinivas, Assistant Professor from EEE Department submitted book chapter with entitled **“A fractional order High pass Filter based Extremum Seeking Control for Grid Connected Photovoltaic Systems”** in Lecture Notes in Electrical Engineering, Springer Publisher.
- ◆ Mr.M.Rupesh, Dr.P.Srinivas, Assistant Professors, Dr.Ch.Sunil Kumar, Professor & Mr.R Guruswamy, Associate Professor of EEE Department submitted Paper with entitled **“Voltage sag Mitigation and Power Quality Improvement using fuzzy Controlled Dynamic Voltage Regulator”** and accepted for INDIA-2022 Conference to be organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNs) Series.
- ◆ Ms.B.Sujatha, Associate Professor, Ms.G.Kavya, Ms.V.Ruchitha, Ms.B.Pujitha, Ms.M.Jaya Pooja Sri of 2017 Batch students & Mr.M.Sudheer Kumar, Senior Software Engineer, submitted Paper with entitled **“Web Application for Solar Data Monitoring using IoT Technology”** and accepted for INDIA-2022 Conference to be organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNs) Series.
- ◆ Dr.P.Srinivas, Assistant Professor, Dr.Ch.Sunil Kumar, Professor Mr. M Rupesh, Assistant Professor of EEE Department and Dr.B.Gurappa, Assistant Professor of BVRIT, Narsapur, submitted Paper with entitled **“A Novel controller for Multiple-Input Bidirectional DC-DC Power Converter of HESS for DC Microgrid Applications”** and accepted for INDIA-2022 Conference to be organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNs) Series.
- ◆ Dr.P.Srinivas, Assistant Professor of EEE Department accepted entitled **“Supercapacitor Voltage based Power Sharing and Energy Management Strategy for Hybrid Energy Storage System”** in Journal of Energy Storage, Elsevier (SCI) with impact factor 6.38.
- ◆ Ms.K.Bhavya, Assistant Professor, Ms.B.Sujatha, Associate Professor and Ms.P.Subhashitha, Assistant Professor from EEE Department submitted CRC Paper with entitled **“Power quality Enhancement in Distribution**

- System using Ultra Capacitor integrated Power Conditioner ”** for INDIA-2022 Conference to be organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNS) Series.
- ◆ Mr.M.Rupesh, Assistant Professor from EEE Department published the paper with entitled **“Fuzzy and ANFIS Controllers to Improve the Power Quality of Grid Connected PV System with Cascaded Multilevel Inverter”** in International Journal of Electrical & Electronics Research, Volume-9, Issue-4, ISSN: 2347-470X, Pg. No: 89-96, DOI: 10.37391/IJEER.090401.
 - ◆ Dr.P.Srinivas, Assistant Professor, Dr.Ch.Sunil Kumar, Professor Mr. M Rupesh, Assistant Professor from EEE Department and Dr. B. Gurappa, Assistant Professor of BVRIT, Narsapur, presented in India 2022 Conference with paper entitled **“A Novel controller for Multiple-Input Bidirectional DC-DC Power Converter of HESS for DC Microgrid Applications”** and accepted for INDIA-2022 Conference organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNS) Series and **got Best Paper award.**
 - ◆ Mr. R. Guruswamy, Associate Professor, Ms. Babita Gupta, Assistant Professor and Dr. V. Rajeswari, Professor from EEE Department presented in India 2022 Conference with paper entitled **“Voltage stability Analysis for distribution network using D-STATCOM”** organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNS) Series.
 - ◆ Ms.K.Bhavya, Assistant Professor, Ms.B.Sujatha, Associate Professor and Ms.P.Subhashitha, Assistant Professor from EEE Department presented in India 2022 Conference with paper entitled **“Power Quality Enhancement in Distribution System using Ultra Capacitor Integrated Power Conditioner”** on 25th February 2022, organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNS) Series..
 - ◆ Ms.B.Sujatha, Associate Professor, Ms.G.Kavya, Ms.V.Ruchitha, Ms.B.Pujitha, Ms.M.Jaya Pooja Sri of 2017 Batch students & Mr.M.Sudheer Kumar, Senior Software Engineer KPIT Technologies, Bangalore presented in India 2022 Conference with paper entitled **“Web Application for Solar Data Monitoring using IoT Technology”** organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNS) Series.
 - ◆ Mr.M.Rupesh, Dr.P.Srinivas, Assistant Professors, Dr.Ch.Sunil Kumar, Professor & Mr.R Guruswamy, Associate Professor from EEE Department presented in India 2022 Conference with paper entitled **“Voltage sag Mitigation and Power Quality Improvement using fuzzy Controlled Dynamic Voltage Regulator”** organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNS) Series.
 - ◆ Mr.M.Rupesh, Dr.P.Srinivas, Assistant Professors, Dr.Ch.Sunil Kumar, Professor & Mr.R Guruswamy, Associate Professor of EEE Department submitted Camera Ready Paper with entitled **“Voltage sag Mitigation and Power Quality Improvement using fuzzy Controlled Dynamic Voltage Restorer”** and accepted for INDIA-2022 Conference to be organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana, India, during 25th to 26th February 2022 and Publication in Springer-Lecture Notes in Networks and Systems (LNNS) Series.
 - ◆ Dr.Ch.Sunil Kumar, Professor and HoD from EEE Department communicated Journal Paper with entitled **"Design of Hybrid Micro-grid under Islanding and Grid Connected Modes"** to IEEE International Conference on Sustainable Computing and Data Communication Systems (ICSCDS 2022).
 - ◆ Dr.Ch.Sunil Kumar, Professor and HoD from EEE Department communicated Journal Paper with entitled **"Design of Hybrid Micro-grid under Islanding and Grid Connected Modes"** and selected to present in IEEE International Conference on Sustainable Computing and Data Communication Systems (ICSCDS 2022).

- ◆ Mr.R.Guruswamy, Associate Professor from EEE Department published Paper for a project batch at International conference on International Conference on Innovation, Technology and Management (ITM) : An Integrated Approach for Sustainable Future organized on 11th May 2022 by Adithya School of Business Management, a Unit of Adithya Institute of Technology, Coimbatore, India, in association with Brittany University, France and Chang Jung Christian University, Taiwan on the paper titled **"Simulation of Grid Connected Three Level Neutral Point Clamped Inverter"**.
- ◆ Dr.P.Srinivas, Assistant Professor and Ms.B.Sujatha, Associate Professor from EEE Department communicated Journal paper with entitled **"Optimal Energy Management Scheme of Battery Supercapacitor based Bidirectional Converter for DC Microgrid Applications"** on MDPI Informations Publisher on 14th May 2022.
- ◆ Dr.P.Srinivas, Assistant Professor and Ms.B.Sujatha, Associate Professor from EEE Department communicated Journal paper with entitled **"LED Driver with an Efficient Interleaved Buck Converter"** in International Conference on Emerging Technologies in Electrical Engineering ICETEE - 2022 on 16th May 2022.
- ◆ Dr.P.Srinivas, Assistant Professor and Ms.B.Sujatha, Associate Professor from EEE Department communicated Journal paper with entitled **"LED Driver with an Efficient Interleaved Buck Converter"** in International Conference on Emerging Technologies in Electrical Engineering ICETEE - 2022 and **accepted for Presentation**.
- ◆ Dr.P.Srinivas, Assistant Professor from EEE Department presented in Virtual International Conference on Emerging Technologies in Electrical Engineering (ICETEE) with entitled paper **"LED Driver with an Efficient Interleaved Buck Converter"** on 25th June 2022 organized by Malareddy College of Engineering and Technology, Hyderabad.

Internships

- ◆ Ms. V. Haritha (18WH1A0211) of IV EEE Student got **paid Internship offer from VERZEO** with 15000/- + 10,000 incentives on 4th December 2021. Her internship will be 6th December 2021 to 15th June 2022.

- ◆ Ms. A. Asritha (20WH1A0234) of II year got internship offer IIIT, Hyderabad From 5th May 2022.
- ◆ Ms. P. Snehalatha , 20WH1A0210 of II year got internship offer IIIT, Hyderabad From 5th May 2022.

Placements

- ◆ Ms. M. Thanmai of 2019 Batch student got cleared in **TCS Codevita in 1st Round** on 9th April 2022.
- ◆ Ms. M. Krishna Tejaswi of 2018 Batch student got placed in **Amdeaus Company with 11 LPA** on 23rd April 2022.
- ◆ Ms. M. Thanmai (19WH1A0228) of III EEE got offer from TCS Company on 8th June 2022.
- ◆ Ms. A. Bhuvaneswari (20WH5A0203) of III EEE got an **Internship** opportunity from NPTEL, IIT Madras on 9th June 2022.
- ◆ Ms. S. Roshitha (18WH1A0228), Ms. D. Tejaswi (18WH1A0237), Ms. K. Supriya (18WH1A0240), Ms. A. Keerthana (19WH5A0201), Ms. Md. Zeenath (19WH5A0203) and Ms. P. Dharani (19WH5A0204) of IV EEE got placed in **Mahindra & Mahindra Core company** on 9th June 2022.
- ◆ Ms. P. Sai Nitya (18WH1A0217) of IV EEE got placed in **Vamstar Company** on 18th June 2022.
- ◆ Ms. S. Roshitha (18WH1A0228) of IV EEE got placed in **Proadapt Company** on 18th June 2022.

Toppers

- ◆ Second Year second Semester topper for the Academic Year 2021-22



A. Sony
20WH1A0201

...The Techno Spark

Toppers

- ◆ Third Year Second Semester topper for the Academic Year 2021-22



CH. SANVITHA
20WH5A0207

- ◆ Fourth Year Second Semester topper for the Academic Year 2021-22



CH. Praharsham
18WH1A0213



KURUWADA JAHNAVI
18WH1A0222



KAVYA SWAMY
18WH1A0233



Ms. S. Roshitha
(18WH1A0228)



Ms. D. Tejaswi
(18WH1A0237)



Ms. K. Supriya
(18WH1A0240)



Ms. A. Keerthana
(19WH5A0201)



Ms. Md. Zeenath
(19WH5A0201)



Ms. P. Dharani
(19WH5A0204)

Amdeaus



Ms. M. Krishna Tejaswi
18WH1A0207 1

Mahindra & Mahindra

Vamstar

Proadapt



Ms. P. Sai Nitya
(18WH1A0217)



Ms. S. Roshitha
(18WH1A0228)

Placements for 2018 Batch

TCS



Ms. M. Thanmai
(19WH1A0228)

...The Techno Spark