

### **Personal Information**

Name	Dr. Chava Sunil Kumar
Years of Experience	Teaching: 23 Years Research: NIL Industry: NIL
Email Id	sunilkumar.ch@bvrithyderabad.edu.in
Areas of Specialization	Power Systems



### **Educational Qualifications:**

Doctoral Degree	Ph.D.	EEE – Power Systems
PG Degree	M. Tech.	Electrical Power Engineering
UG Degree	B. Tech.	Electrical and Electronics Engineering

### **Funded Projects:**

#### **1. DST Project under CERI/MI/SG**

*Demonstrations of MW scale Solar energy Integration in weak grid using Distributed Energy Storage architecture (D-SIDES)*

*(In collaboration with IIT – Roorkee)*

File No.: DST/CERI/MI/SG/2017/057 (BVRIT) (G): Date: 12-06-2018.

Total Project Cost Rs: 33, 03,600/-

PI - Dr. Chava Sunil Kumar, Professor & HoD-EEE, BVRITH

Co - PI - I - Dr. V. Rajeswari, Professor, BVRITH

#### **2. DST Project under SEED/TIDE**

*Remote Diagnosis System for Assisted Living Using Internet of Things for rural areas*

File No.: SEED/TIDE/2018/39; Date: 07-03-2019.

Total Project Cost Rs: 48, 20, 964/-

PI - Mr. Guruswamy Revana, Associate Professor. EEE, BVRITH

Co - PI - I - Dr. Chava Sunil Kumar, Professor & HoD-EEE, BVRITH

Co - PI - II - Mr. Ch Santosh Kumar, Assistant Professor, EEE, BVRITH

### **Patent Published:**

1. A Series Capacitive Compensation Technique with Design Based Iterative Algorithm for Mitigation of Ferranti Effect in EHV and UHV Power Transmission Systems.  
Application No. 202241027437 A.
2. IOT-BASED REAL TIME AQI MONITORING  
Application No. 202441040003 A
3. A REMOTE DIAGNOSTIC SYSTEM FOR ASSISTED LIVING UTILIZING INTERNET OF THINGS (IOT) TAILORED FOR RURAL REGIONS  
Application No. 202441043851 A
4. HYBRID NANOCOMPOSITE SOLID POLYMER ELECTROLYTE FOR SOLID-STATE SODIUM-ION BATTERY  
Application No. 202441056771 A

5. Smart Seismic Sensing: Designing an Arduino based Earthquake Detector  
Application No. 202441073741 A
6. Advanced Patient Monitoring using IoT: A Modern Healthcare Solution  
Application No. 202441081228 A
7. AMBU BAG BASED PORTABLE LIFE SUPPORTING VENTILATION APPARATUS  
Application No. 202441083692 A
8. Innovative Solution for Water Overflow: An Impulse Regulator System  
Application No. 202441099770 A

### **Papers Published**

#### **International Journal Publications**

1. Sujatha Banka, **Chava Sunil Kumar**, Surender Reddy Salkuti, Sai Sruthi Bhupathiraju, Kasoju Pragathi Balakishan, Paipoti Pooja Chaturya, Rishitha Namineni “Analysis and simulation of 7-level and 9-level cascaded H-bridge multi-level inverters” *International Journal of Applied Power Engineering (IJAPE)*, Vol. 14, No. 1, March 2025, pp. 11-22, ISSN: 2252-8792, DOI: 10.11591/ijape.v14.i1.pp11-22. (Q3)
2. Anji Reddy Polu, Shufeng Song, Aseel A. Kareem, Serguei V. Savilov, Pramod K. Singh, Mekala Venkanna, **Chava Sunil Kumar**, “Performance Enhancement of PEO: LiDFOB Based Nanocomposite Solid Polymer Electrolytes via Incorporation of POSS-PEG<sub>13.3</sub> Hybrid Nanoparticles for Solid-State Li-ion Batteries”, *Journal of Physics and Chemistry of Solids*, Vol. 196, 112319, September 2024, 112319, pp. 1-8 ISSN: 0022-3697, <https://doi.org/10.1016/j.jpics.2024.112319>. (Q3)
3. **Chava Sunil Kumar**, Sujatha Banka, Shaik Chandini, Jakkoju Vaishnavi, Gorla Himabindu and Gudibandi Meghana, “Control of a stand-alone variable speed wind turbine generator system”, *International Journal of Applied Power Engineering (IJAPE)*, Vol. 13, No. 3, September 2024, pp. 727-736, ISSN: 2252-8792, DOI: 10.11591/ijape.v13.i3. (Q3)
4. Malladi Lakshmi Swarupa, Katuri Rayudu, **Chava Sunil Kumar**, Sree Lakshmi Gundebommu, P. Kamalakar, “Machine Learning Techniques for Power Quality Enhancement of Power Distribution Systems with FACTS Devices”. *Engineering, Technology & Applied Science Research*, Vol.14, No.4, August 2024, pp.14939–14944. ISSN: 1792-8036, DOI: <https://doi.org/10.48084/etasr.7233>. (Q2)
5. Venu Yarlagadda, **Chava Sunil Kumar**, Srinivasa Rao Jalluri, B. Devulal and Giriprasad Ambati, “A Comparative Assessment of Ferranti Effect in Power Transmission Systems with PI Model and Distributed Line models”, *International Journal of Intelligent Systems and Applications in Engineering (IJISAE)*, Vol. 12, No. 22s, July 2024, pp. 1517–1523, ISSN: 2147-6799, DOI: <https://ijisae.org/index.php/IJISAE/article/view/6694>. (Q4)
6. Venu Yarlagadda, Giriprasad Ambati, B. Devulal, Srinivasa Rao Jalluri, **Chava Sunil Kumar** and Nuthalapati Alekhya, “Power Quality Improvement of Wind Power Plant using STATCOM and Harmonic Filters”, *International Journal of Intelligent Systems and Applications in Engineering (IJISAE)*, Vol. 12, No. 22s, July 2024, pp. 1504-1511, ISSN: 2147-6799, DOI: <https://ijisae.org/index.php/IJISAE/article/view/6692>. (Q4)
7. Venu Yarlagadda, Srinivasa Rao Jalluri, Giriprasad Ambati, **Chava Sunil Kumar** and B. Devula, “Power Quality Improvement of Thyristor Controlled Reactor using Harmonic Filters”, *Journal of Electrical Systems*, Vol. 20, No. 10s, July 2024, pp. 1542-1552, ISSN: 1112-5209, DOI: <https://journal.esrgroups.org/jes/article/view/5328>. (Q4)

8. Venu Yarlagadda, B. Devulal, **Chava Sunil Kumar**, Giriprasad Ambati, Srinivasa Rao Jalluri and Annapurna Karthika Garikapati, "Influence of Hybrid FACTS Device and STATCOM on Power Quality Improvement of Wind Farm", *Journal of Electrical Systems*, Vol. 20, No. 10s, July 2024, pp. 104-115, ISSN: 1112-5209, DOI: <https://journal.esrgroups.org/jes/article/view/5030>. (Q4)
9. Gurralla Madhusudhana Rao, Mamidala Vijay Karthik, Annavarapu Ananda Kumar, **Chava Sunil Kumar**, Tummeti Parameshwar and Abbaraju Hima Bindu, "ANFIS-based optimisation for achieving the maximum torque per ampere in induction motor drive with conventional PI", *International Journal of Applied Power Engineering (IJAPE)*, Vol. 13, No. 2, pp. 320~327, June 2024, ISSN: 2252-8792, DOI: 10.11591/ijape.v13.i2. (Q3)
10. Mule Pala Prasad Reddy, Mamidala Vijay Karthik, **Chava Sunil Kumar**, Katuri Rayudu and Gurralla Madhusudhana Rao, "Enhancing the performance of sustainable energy management of buildings in smart cities", *Indonesian Journal of Electrical Engineering and Computer Science*, Vol. 33, No. 3, pp. 1315~1326, March 2024, ISSN: 2502-4752, DOI: 10.11591/ijeecs.v33.i3.pp1315-1326. (Q3)
11. Praveen Kumar Joshi, Dr. R. P. Singh and **Chava Sunil Kumar**, "Study on Role of Harmonic Distortion and Filters in Distribution System Power Quality Issue", *Jour of Adv Research in Dynamical & Control Systems*, Vol. 11, pp 600 - 605, 09-Special Issue, 2019, DOI: 10.5373/JARDCS/V11/20192611, ISSN 1943-023X.
12. Praveen Kumar Joshi, Dr. R.P. Singh and **Chava Sunil Kumar**, "Hybrid Active Filter for Enhancing Power Quality in Distribution System", *Jour of Adv Research in Dynamical & Control Systems*, Vol. 11, No 10, pp 82 - 90, 2019, DOI: 10.5373/JARDCS/V11I10/20193009, ISSN 1943-023X.
13. Praveen Kumar Joshi, Dr. R.P. Singh and **Chava Sunil Kumar**, "Hybrid Filter Control for Improvement Quality in a Distribution System", *International Journal of Recent Technology and Engineering (IJRTE)*, Volume-8, Issue-3, pp 7323 - 7328, September 2019, DOI: 10.35940/ijrte.C6081.098319, ISSN: 2277-3878.
14. Praveen Kumar Joshi, Dr. R.P. Singh and **Chava Sunil Kumar**, "Power Quality Improvement in Distribution System using Active Filter Technology", *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, Volume-8, Issue-7, pp 619 – 625, May 2019, ISSN: 2278-3075.
15. **Ch. Sunil Kumar**, J. Amaranath and P. S. Subramanyam, "Transaction based Transmission Loading Relief of Andhra Pradesh State Grid", *International Journal of Electronic and Electrical Engineering*, Volume 5, No. 1, pp. 85-89, Special Issue 2012, ISSN: 0974-2174.
16. **Chava Sunil Kumar**, Dr. P. S Subramanyan, Dr. J. Amarnath, "Available Transfer Capability Calculations with Contingencies for Andhra Pradesh State Grid", *International Journal of Engineering Research and Applications*, Volume 2, Issue 3, pp. 1278-1284, May-June 2012, ISSN: 2248-9622. (UGC)
17. **Chava Sunil Kumar**, Dr. P. S Subramanyan, Dr. J. Amarnath, "Variation of Spot Price and Profits of Andhra Pradesh State Grid in Deregulated Environment", *International Journal of Electrical and Computer Engineering*, Vol:6, No:8, pp. 840-847, May 2012. ISSN: 1307-6892.
18. **Ch. Sunil Kumar**, J. Amaranath and P. S. Subramanyam, "Determination of Spot Price and Optimal Power Flow in Deregulated Power System", *Journal of Innovative Systems Design*

and Engineering, Volume 3, No 3, pp. 77-88, 2012, ISSN: Paper 2222-1727 Online 2222-2871.

19. **Ch. Sunil Kumar**, J. Amaranath and P. S. Subramanyam, "Available Transfer Capability based Transmission Loading Relief (TLR) in Deregulated Power System", *ICGST-ACSE Journal*, Volume 12, Issue 1, pp. 1-8, June 2012, ISSN: Print 1687-4811 Online 1687-482X & CD-ROM 1687-4838.
20. **Ch. Sunil Kumar**, J. Amarnath and P. S. Subramanyam, "Optimal Power Flow Analysis and Available Transfer Capability of Deregulated Power System", *International Review on Modelling and Simulations*, vol. 4, no. 3, pp. 1279-1289, June 2011, ISSN: 1974-9821. (Q3)
21. **Ch. Sunil Kumar**, J. Amaranath and P.S. Subramanyam, "Transmission Loading Relief (TLR) and Hour-Ahead ATC in Deregulated Power System", *International Review on Modelling and Simulations*, vol. 4, no. 1, pp. 85-92, Feb. 2011, ISSN: 1974-9821. (Q3)

### *Book Chapters*

1. Yarlagadda, V., Kapoor, R., Kumar, **Chava Sunil Kumar**, Ambati, G. (2022). Dynamic and Transient Stability Enhancement of Multi Area Power Systems Using Fuzzy Logic Control Against Load Disturbances. Innovations in Electrical and Electronic Engineering. ICEEE 2022. Lecture Notes in Electrical Engineering, vol 893. Springer, Singapore. [https://doi.org/10.1007/978-981-19-1742-4\\_2](https://doi.org/10.1007/978-981-19-1742-4_2), pp12-29.
2. Yarlagadda, V., Karthika, G.A., Ambati, G., Kumar, **Chava Sunil Kumar** (2022). Wind Energy System Using Self Excited Induction Generator with Hybrid FACTS Device for Load Voltage Control. Innovations in Electrical and Electronic Engineering. ICEEE 2022. Lecture Notes in Electrical Engineering, vol 893. Springer, Singapore. [https://doi.org/10.1007/978-981-19-1742-4\\_6](https://doi.org/10.1007/978-981-19-1742-4_6), pp77-91.
3. Srinivas. P, **Chava Sunil Kumar**, Rupesh M., Gurappa. B. (2023). A Novel Controller for Multiple-Input Bidirectional DC–DC Power Converter of HESS for DC Microgrid Applications. Communication, Software and Networks. Lecture Notes in Networks and Systems, vol 493. Springer, Singapore. [https://doi.org/10.1007/978-981-19-4990-6\\_1](https://doi.org/10.1007/978-981-19-4990-6_1), pp 1-11.

### *International Conference Publications*

1. **Chava Sunil Kumar**, Sujatha Banka, Vadisina Sai Priya, Adavelly Navya, Challa Nethra and Guguloth Srikanya "Optimizing Power Output in Stand-Alone PV Systems with a Fractional Order PID - Based MPPT Controller" Second International Conference on Emerging Technologies and Applications in Electrical Engineering 2024 (ICETAEE 2024), NIT, Raipur (18-19 December 2024)
2. Sujatha Banka, **Chava Sunil Kumar**, L. Supriya, V. Priya and R. Shivani, "Saline Level Intelligent Monitoring System utilizing GSM Module," 2024 International Conference on Computational Intelligence for Green and Sustainable Technologies (ICIGST), Vijayawada, India, 2024, pp. 1-4, DOI: [10.1109/ICIGST60741.2024.10717507](https://doi.org/10.1109/ICIGST60741.2024.10717507).
3. **Chava Sunil Kumar**, Sujatha Banka, A. Navya, V. S. Priya, C. Nethra and G. Srikanya, "Enhancing Borewell Rescue with Automation," 2024 International Conference on Cognitive Robotics and Intelligent Systems (ICC - ROBINS), Coimbatore, India, 2024, pp. 738-742, <https://doi.org/10.1109/ICC-ROBINS60238.2024.10533991>
4. **Chava Sunil Kumar**, Sujatha Banka, J. Vaishnavi, S. Chandini, G. Himabindu and G. Meghana, "RFID Time and Attendance System based on IoT Technology," 2023 2<sup>nd</sup>

International Conference on Automation, Computing and Renewable Systems (ICACRS), Pudukkottai, India, 2023, pp. 293-296,  
<https://doi.org/10.1109/ICACRS58579.2023.10404328>

5. **Sunil Kumar Chava**, Udayini Vanga and Srilekha Akula, "Modelling and Implementation of SEPIC Converter for Electric Vehicle Application" International Conference on Smart systems and Green Energy Technologies (ICSGET 2022), Vardhaman College of Engineering, Hyderabad, India on 21-22 October 2022. e-ISBN: 9788770229647, <https://doi.org/10.13052/rp-9788770229647>.
6. **Sunil Kumar Chava**, Sudheer Kumar M, Rajeswari V, Siva Gowri N "Design of Hybrid Micro-grid under Islanding and Grid Connected Modes", IEEE International Conference on Sustainable Computing and Data Communication Systems (ICSCDS 2022), Shree Venkateshwara Hi-Tech Engineering College, India, April 7-9, 2022, ISBN: 978-1-6654-7883-0, pp 844-850. <https://ieeexplore.ieee.org/document/9761024>
7. Rupesh M, Punna Srinivas, **Chava Sunil Kumar**, Guruswamy, "Voltage sag Mitigation and Power Quality Improvement using fuzzy Controlled Dynamic Voltage Regulator", Seventh International Conference on Information System Design and Intelligent Applications (INDIA 2022), BVRIT HYDERABAD College of Engineering for Women, Hyderabad, India, 25-26 Feb 2022.
8. **Chava Sunil Kumar**, Shravya Tadi, Aamani Naraharisetti, "Energy Management in AC/DC Microgrids: A Modular Simulation Testbed", AICTE sponsored 1<sup>st</sup> International Conference on Recent Trends in Electrical Electronics Communication and Instrumentation Engineering (ICRTEECI 2021), CVR College of Engineering, Hyderabad, India, 27 - 28 December 2021.
9. J. Srinivasa Rao and **Chava Sunil Kumar** "Load frequency control of grid connected pv system and diesel generator using fuzzy logic controller", 'International Conference on Innovations in Computing and Communication (ICICC 2015)', BVRIT, Narsapur, R.R. Dist., February 12 - 13, 2015, ISBN Number: 978-93-82163-59-6, pp 217 - 222.
10. **Chava Sunil Kumar** and Mr. J. Srinivasa Rao, "Reactive Power Compensation Using Fuzzy Optimization", 'International Conference on Innovations in Computing and Communication (ICICC 2015)', BVRIT, Narsapur, R.R. Dist., February 12 - 13, 2015, ISBN Number: 978-93-82163-59-6, pp 223 - 229.
11. **Ch. Sunil Kumar**, P. S. Subramanyam and J. Amaranath, "Available Transfer Capability Computations – A Case Study of Andhra Pradesh State Grid", IEEE International Conference on Advanced Research in Engineering and Technology (IEEE ICARET-2013), KLU, AP, India, February 8 - 9, 2013. pp. 246-250.
12. **Ch. Sunil Kumar**, J. Amaranath and P.S. Subramanyam, "Optimal Power Flow Analysis based Available Transfer Capability Calculations in Deregulated Power System", International Conference on MATLAB Applications in Engineering and Technology (ICMAET), Interscience Research Network, India, January 1, 2012, Bangalore, India. pp. 10-18.

### *National Conference Publications*

1. **Dr. Ch. Sunil Kumar**, and J. Srinivasa Rao, "Parameter Determination of Axial Flow Induction Machines", Proceedings of National Conference on RAPIDEET - 2016 (Recent Advances in Power Industrial Drives and Energy Evolutionary Technologies), BVRIT, Narsapur, October 24 - 25, 2016, pp 253-258.

2. **Dr. Ch. Sunil Kumar** and Dr. J. Srinivasa Rao, “Modelling of Photovoltaic system” Proceedings of Third National Conference on Emerging Technologies in Electrical and Electronics Engineering (ETE-2016), under TEQIP-II, Shri Vishnu Engineering College for Women, Bhimvaram, January 29-30, 2016, pp 8-14.
3. **Dr. Ch. Sunil Kumar** and Dr. J. Srinivasa Rao, “Subsynchronous Resonance Mitigation for Wind farm”, Proceedings of Third National Conference on Emerging Technologies in Electrical and Electronics Engineering (ETE-2016), under TEQIP-II, Shri Vishnu Engineering College for Women, Bhimvaram, January 29-30, 2016, pp 20-26.
4. Srinivasa Rao Jalluri and **Chava Sunil Kumar** “Novel Adaptive Neuro-Fuzzy Control for Grid Connected Renewable Energy Source”, Proceedings of National Conference on Emerging Technologies in Electrical and Electronics Engineering under TEQIP-II, SVECW, Bhimavaram, February 7-8, 2014, pp 1-6.
5. **Chava Sunil Kumar** and Srinivasa Rao Jalluri “Performance of Fuzzy Logic Based Power System Stabilizer”, Proceedings of National Conference on Emerging Technologies in Electrical and Electronics Engineering under TEQIP-II, SVECW, Bhimavaram, February 7-8, 2014, pp 1-5.
6. **Ch. Sunil Kumar**, J. Amaranath and P. S. Subramanyam, “Available Transfer Capability Computations using Power Transfer Distribution Factors of Andhra Pradesh State Grid”, National Conference on Recent trends in Power Systems and Power Electronics (NCPSPE-2012), BVCEC, Odalarevu, February 17, 2012, pp. 26-33.
7. **Ch. Sunil Kumar**, J. Amaranath and P. S. Subramanyam, “Voltage Stability Constrained Available Transfer Capability in Deregulated Power System”, Proceedings of the National Conference on Power System Planning, Operation and Optimization (PSPOO), JNTU, Kakinada, June 17, 2011, pp. 17-28.

### *Book Publications*

1. “Power Pool Control using Fuzzy Logic”, AkiNik Publications, Paperback ISBN: 978-93-6135-690-2, July 2024, DOI: <https://doi.org/10.22271/ed.book.2872>
2. "Harmonics Elimination in Self-Excited Wind Power Plant using Power Quality Compensators", AkiNik Publications, Paperback ISBN 978-93-6135-543-1, August 2024, DOI: <https://doi.org/10.22271/ed.book.2807>

### *Reviewer for International Journals / Conferences*

- International Journal of Control, Automation and Systems (IJCAS) – Springer
- International Journal of Emerging Electric Power Systems (IJEPS)
- 1<sup>st</sup> International Conference on Recent Trends in Electrical, Electronics, Communications and Instrumentation (ICRTEECI 2021) Sponsored by AICTE
- 2<sup>nd</sup> International Conference on Emerging trends in Engineering (ICETE) 2023
- International Conference on Cybernation and Computation (IEEE) (CYBERCOM2024)

### *FDP's Conducted*

1. One Week Online AICTE - ATAL Sponsored Faculty Development Programme on “Challenges and Control of Green and Sustainable Energy using Artificial Intelligent Techniques” at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad from 9<sup>th</sup> to 13<sup>th</sup> August 2021.

2. One Week Faculty Development Program on “HOW TO WRITE GOOD RESEARCH ARTICLE & PROPOSAL” 18<sup>th</sup> to 22<sup>nd</sup> January 2021 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad as a part of AICTE - INAE Distinguished Visiting Professorship Scheme.
3. Six Day International Faculty Development Program on “Industrial Relevance of Electrical Engineering” from 15<sup>th</sup> to 20<sup>th</sup> June 2020 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
4. A Three-Day Faculty Development Program on “Machine Learning & Its Applications” from 28<sup>th</sup> to 30<sup>th</sup> September 2019 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad as a part of AICTE-INAE Distinguished Visiting Professorship Scheme.
5. One Week Faculty Development Program on “IoT and Embedded System Design using NI LabVIEW” in association with National Instruments, Bengaluru from 18<sup>th</sup> to 22<sup>nd</sup> December 2017 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
6. One Week Faculty Development Program on ‘Solar PV Grid connected Power plant’ in association with National Training Centre for Solar Technology, Karnataka from 05<sup>th</sup> to 10<sup>th</sup> December 2016 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
7. Two Day Workshop on “PCB Design” on 05<sup>th</sup> and 06<sup>th</sup> December 2016 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
8. One Day workshop under Engineering Clinic on “Servicing of Fan, Tube light” on 12<sup>th</sup> March 2014 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
9. Two Day Workshop on PCB Design on 23<sup>rd</sup> and 24<sup>th</sup> December 2013 in association with Indo Global Services at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
10. Organized Webinar on “Developing and Implementing Digital Control for Power Converters” for SVES EEE faculty in association with Mathworks on 18<sup>th</sup> April 2020.

### ***FDP's Attended***

1. One Week AICTE Recognized Faculty Development Programme on “Developing Healthy Work Culture at Work Place” Conducted by Curriculum Development Centre Department of NITTR, Chandigarh at BVRIT HYDERABAD College of Engineering for Women, Hyderabad, Telangana from 2<sup>nd</sup> to 6<sup>th</sup> December 2024.
2. One Week International Professional Development Programme on “Smart Mobility: The Future of Autonomous Electric Vehicles” organized by the Department of Electrical & Electronics Engineering, BVRIT HYDERABAD College of Engineering for Women, Hyderabad from 11<sup>th</sup> to 16<sup>th</sup> November 2024 (Hybrid mode).
3. One Week National level Faculty Development Programme (Hybrid mode) on “Assimilation of Indian Knowledge Systems with NEP-2020 Prospect and Retrospect” organized by the Department of Basic Sciences & Humanities and Internal Quality Assurance Cell (IQAC), BVRIT HYDERABAD College of Engineering for Women, Hyderabad from 30<sup>th</sup> July 2024 to 04<sup>th</sup> August 2024.

4. AICTE - ATAL One Week Faculty Development Program on “Generative AI: Transforming Education and Research” at BVRIT HYDERABAD College of Engineering for Women, Hyderabad from 08<sup>th</sup> to 13<sup>th</sup> January, 2024.
5. AICTE - ATAL One Week Faculty Development Program on “Artificial Intelligence for Agriculture Innovation (AI4AI)” at BVRIT HYDERABAD College of Engineering for Women, Hyderabad from 11<sup>th</sup> to 16<sup>th</sup> December, 2023.
6. A Five Day Faculty Development Program on “Modern Technologies for GRID INTEGRATION of RENEWABLE ENERGY SOURCES” organized by Department of Electrical & Electronics Engineering, NARAYANA ENGINEERING COLLEGE (AUTONOMOUS) Dhurjati Nagar, GUDUR, Tirupati(Dt), Andhra Pradesh during 14<sup>th</sup> to 18<sup>th</sup> March, 2023.
7. One Week Faculty Development Programme (Online) on “ENHANCEMENT AND UTILIZATION OF GREEN ENERGY IN POWER SYSTEMS USING POWER ELECTRONICS AND CONTROL”, Department of Electrical Engineering, GMR Institute of Technology, Rajam, Andhra Pradesh & AU College of Engineering, Visakhapatnam, Andhra Pradesh during 12<sup>th</sup> to 17<sup>th</sup> December, 2022.
8. AICTE – ISTE approved Orientation / Refresher Programme on “Integration of Green Energy Resources” organized by Vishnu Institute of Technology, Vishnupur, Bhimavaram, Andhra Pradesh held during 1<sup>st</sup> to 7<sup>th</sup> February 2022.
9. One week Faculty Development Program (FDP) on "Fundamentals of ML" organized by Department of CSE, CSE(AI&ML) and IT, BVRIT HYDERBD College of Engineering for Women from 30<sup>th</sup> August to 4<sup>th</sup> September 2021.
10. One-week National Institute of Technical Teachers Training and Research (NITTTR) Mentor Training Programme organized by National Initiative for Technical Teacher Training (NITTT), Chennai during 26<sup>th</sup> to 30<sup>th</sup> July 2021.
11. International Faculty Development Programme on "Challenges in Energy Management for Smart Cities" Organized by Department of Electrical and Electronics Engineering in association with Centre for Renewable Energy Technology-AVIT, Chennai from 07<sup>th</sup> to 11<sup>th</sup> June 2021.
12. AICTE - ATAL One Week Online Faculty Development Program (FDP) on “ENERGY STORAGE” organized by Institute of Aeronautical Engineering, Hyderabad from 17<sup>th</sup> to 21<sup>st</sup> May 2021.
13. AICTE sponsored One Week Online Short-Term Training Programme (STTP) on Hands on Training in “Artificial Intelligence and Optimization Techniques application for additional lab Experiments and Mini, Major Projects” organized by Vidya Jyothi Institute of Technology, Hyderabad from 9<sup>th</sup> to 16<sup>th</sup> November 2020.
14. A Five-Day Online Faculty Development Programme on “Real Time Typhoon HIL Applications for Power Systems, Power Electronics based RES, Electric Vehicles & Microgrids” conducted by Anurag University, Hyderabad from 10<sup>th</sup> to 14<sup>th</sup> August 2020.
15. Online Faculty Development Programme on "AI Techniques to Electrical Engineering" organized by UGC-Human Resource Development Centre, Jawaharlal Nehru Technological University Hyderabad, Hyderabad, from 06<sup>th</sup> July 2020 to 10<sup>th</sup> July 2020.
16. Online Faculty Development Program on "Advanced Data Science and its applications" organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad from 22<sup>nd</sup> June to 26<sup>th</sup> June 2020.



17. One-week Online Faculty Development Program on “Microgrid, Electric Vehicles and Allied Areas (MGEVAA-20)” organized by KITS, Warangal, from 1<sup>st</sup> to 5<sup>th</sup> June 2020.
18. One Week Online National Level Online Faculty Development Program On “INNOVATION TO ACADEMICIANS” organized by Ramachandra College of Engineering, Eluru from 11<sup>th</sup> to 16<sup>th</sup> May 2020.
19. One Week International Faculty Development Programme on “Research Challenges and Innovations in Renewable Energy Systems” organized by AVIT, Chennai from 11<sup>th</sup> to 16<sup>th</sup> May 2020.
20. A Three day “Hands-on Workshop on IoT” from 13<sup>th</sup> to 15<sup>th</sup> December 2019 organized by IEEE Computer Society at VEDIC, Bangalore.
21. A Three-day Faculty Development Programme on “Professional Etiquette & Emotional Intelligence” from 8<sup>th</sup> to 10<sup>th</sup> July 2019 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
22. Two Week Faculty Development Programme on Entrepreneurship, sponsored by NSTEDB, Centre for Entrepreneurship Development (CED), an Undertaking of ALEAP-INDIA from 18<sup>th</sup> to 30<sup>th</sup> March 2019 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
23. Two-day workshop on “Competency Based Transformation: Leveraging on Human Performance for Growth” on 26<sup>th</sup> and 27<sup>th</sup> December 2018 at VEDIC, SVES.
24. Three-day workshop on “Inspire - Impact- Introspect - Leadership Program” from 12<sup>th</sup> to 14<sup>th</sup> October 2018 at VEDIC, SVES.
25. Three-day workshop on “Leadership in Teaching Learning” from 18<sup>th</sup> to 20<sup>th</sup> July 2018 at VEDIC, SVES.
26. One day workshop on “Thing - Technology - Transform - Level 1” on 21<sup>st</sup> June 2018 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
27. A workshop titled “Litre of light” project held on 16<sup>th</sup> October 2017 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
28. One Week Faculty Development Program on “Solar PV Grid connected Power plant” in association with National Training Centre for Solar Technology, Karnataka from 5<sup>th</sup> to 10<sup>th</sup> December 2016 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
29. One week Faculty Development Program on “Open-Source Software through Spoken Tutorials” in association with IIT Bombay from 4<sup>th</sup> to 10<sup>th</sup> November 2016 at BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
30. One-week National level Faculty Development programme on “Modern Power system Operation and Control” under TEQIP-II SC 1.1, from 11<sup>th</sup> to 16<sup>th</sup> July 2016 at Mallareddy Engineering College, Dhulapally.
31. Participated three-day workshop on “Learning and Leading” from 22<sup>nd</sup> to 24<sup>th</sup> September 2016 at VEDIC, SVES.
32. One day workshop on “Art of writing Research Project” on 7<sup>th</sup> June 2016 at VEDIC, SVES.
33. Awareness workshop on “OUTCOME BASED EDUCATION AND ACCREDITATION” on 14<sup>th</sup> September 2015, under TEQUIP – II, JNTUCEH at JNT University, Kukatpally, Hyderabad.

34. Two-day workshop on “MATLAB and Simulink” from 12<sup>th</sup> and 13<sup>th</sup> September 2014 organized by Department of EEE, BVRIT HYDERABAD College of Engineering for Women, Bachupally, Hyderabad.
35. Two-day workshop on “Assistive Technology solutions in minutes” from 26<sup>th</sup> to 27<sup>th</sup> December 2013 organized by BVRIT HYDERABAD College of Engineering for Women, Nizampet Road, Hyderabad by Dr. Therese Willkomm, Director of AT in NH, University of New Hampshire, USA.

### ***Professional Memberships:***

- Lifetime member of Indian Society for Technical Education (ISTE), LM 63158
- Professional member of SAE INDIA, 7230410261

### ***Certifications***

- Sustainable Power Generation Systems from NPTEL, July - October 2024.
- Sustainable Energy Technology from NPTEL, July - October 2024.
- Introduction to Industry 4.0 and Industrial Internet of Things from NPTEL, July - October 2023.
- Energy Markets of Today from edX on 23<sup>rd</sup> July 2020.
- Natural Gas from Coursera on 10<sup>th</sup> July 2020.
- Machine Learning for All from Coursera on 10<sup>th</sup> June 2020.
- Learn to Design your own Solar Home System by Energy Swaraj Foundation as a part of Energy Literacy and got certificate on 29<sup>th</sup> June 2020.
- Energy: The Enterprise from Coursera on 30<sup>th</sup> May 2020.
- Embracing Change from Harappa on 22<sup>nd</sup> May 2020.
- Wind Energy from Coursera on 14<sup>th</sup> May 2020.
- Electric Utilities Fundamentals and Future from Coursera on 3<sup>rd</sup> May 2020.
- Tide Turners Plastic Challenge on 26<sup>th</sup> April 2020.
- Safety in the Utility Industry from Coursera on 24<sup>th</sup> April 2020.
- Electric Power Systems from Coursera on 20<sup>th</sup> April 2020.
- AI for Everyone from Coursera on 17<sup>th</sup> April 2020.
- Substation Power Engineering Fundamentals Udemy on 8<sup>th</sup> April 2020.
- Outcome Based Education (OBE) & Academic Quality Assurance from Udemy on 2<sup>nd</sup> April 2020.
- Life Skills for Engineers (Level-I) jointly by the Commonwealth Educational Media Centre for Asia (CEMCA) and University of Hyderabad (UoH) from 15<sup>th</sup> May to 28<sup>th</sup> June 2018.
- Electromagnetic Theory from NPTEL April 2018.

### ***Any Other Achievements***

- Board of Studies (BOS) Member for Electrical and Electronics Engineering (EEE) of JNTUH Hyderabad.
- Organizing committee member for AICTE Sponsored International Conference on Big Data, Virtual Reality, Information and Communication Technologies (BVRITHCON) - 22<sup>nd</sup> - 23<sup>rd</sup> December 2023.
- Organizing committee member for the event TEDx BVRIT Hyderabad - 30<sup>th</sup> December 2023.
- Delivered a guest lecture on “Power System Deregulation and Transmission Loading Relief” at Mother Teresa College of Engineering, Sathupally on 26<sup>th</sup> October 2023.
- REVIEWER for 2<sup>nd</sup> International Conference on Emerging Trends in Engineering (ICETE) organized by Osmania University, Hyderabad during 28<sup>th</sup> – 30<sup>th</sup> April 2023.
- Received Best Paper Award for the Paper titled “A Novel controller for Multiple-Input Bidirectional DC-DC Power Converter of HESS for DC Microgrid Applications” in Seventh International Conference on Information System Design and Intelligent Applications (INDIA 2022) organized by BVRIT HYDERABAD College of Engineering for Women, Hyderabad, India during 25<sup>th</sup> - 26<sup>th</sup> February 2022.
- REVIEWER for AICTE sponsored 1<sup>st</sup> International Conference on Recent Trends in Electrical Electronics Communication and Instrumentation Engineering (ICRTEECI 2021), CVR College of Engineering, Hyderabad during 27<sup>th</sup> – 28<sup>th</sup> December 2021.
- Trainer for “Hands-on training on Solar Study Lamp Assembly” as a part of the Gandhi Global Solar Yatra (GGSY) on 2<sup>nd</sup> October 2019 organized by IIT Bombay.
- Rendered voluntary services for the “largest mental health peer counseling” session as a part of ASIA book of Records on 7<sup>th</sup> March 2019 at BVRIT HYDERABAD College of Engineering for Women.
- Delivered Guest Lecture on “Load Flow Studies” on 19<sup>th</sup> March 2019 at Geethanjali College of Engineering and Technology, Hyderabad.
- Mentor for Project “Identification of power outage and tracking of improvement of Infrastructure” and participated in Grand Finale of Smart India Hackathon 2018 on 30<sup>th</sup> and 31<sup>st</sup> March 2018 at Kurnool, AP.
- Felicitated by the “Save A Life Foundation” on 12<sup>th</sup> February 2018, for a social service Program Litre of Light in the slum areas of Bachupally, the Students and faculty of EEE, BVRIT HHYDERABAD were part of the program and distributed the solar lights which were developed by the students.
- Delivered a guest lecture on “Power Systems” at Mother Teresa College of Engineering, Sathupally on 9<sup>th</sup> December 2017.