



GAYATRI VIDYA PARISHAD COLLEGE OF ENGINEERING (Autonomous)

Approved by AICTE, New Delhi and Affiliated to JNTU-Kakinada

Re-accredited by NBA & NAAC with "A" Grade with a CGPA of 3.47 / 4.00

DATE: 22.02.2021

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

ACHIEVEMENTS OF THE DEPARTMENT UNDER AUTONOMOUS STATUS DURING THE LAST 3 YEARS

1. Curriculum

- The department has been reaccredited by NBA for 3 years in 2019 for UG Programme.
- To promote the self-learning component, the students are permitted to register for online courses such as Massive Open Online Courses (MOOCs). The courses shall be chosen as Professional electives, Open Electives, Free electives, Industry Lectures, Swayam Online Courses, and Non Credit mandatory Courses as notified by Board of Studies. Courses like VLSI Physical Design (Online), Biomedical Signal Processing (Online), Solar Energy Engineering and Technology (online), Analog Circuits, Dynamics & Control, Artificial Intelligence and Solar Energy have been floated in this regard.
- Interdisciplinary mandatory courses like Design thinking and product innovation, Artificial Intelligence & Python programming have been introduced since the academic year 2019-20.
- Honor's and Minor degree has been introduced since Academic Year 2019-20.
- Revised Curriculum, which is in line with AICTE & APSCHE has been introduced in B. Tech. (EEE) since the academic year 2019-20.

2. Student Achievements

- MANNE LAKSHMI SOWMYA (2013 - 2017 Batch) got selected for National Institute of Industrial Engineering (NITIE), Mumbai.
- Ms V NEERAJA (2013- 2017) of Department of EEE has secured admissions in IIM Indore.
- RATIPALLI NAGESWARA RAO (2011- 2015) of Department of EEE secured an All India Rank (AIR) of 6 in Indian Engineering Services (IES), 2018.
- A total of 5 students of B.Tech. (EEE) have been awarded Pratibha Awards on merit basis in 2018 (2), 2017 (3) and 2 students of M.Tech have been awarded Pratibha awards in 2018(1), 2017(1).
- All eligible students of B. Tech (EEE) have been placed in companies like TCS, Wipro, CTS and Infosys and also in the Core Sector companies like TATA Steel, L&T, Continental AG, Bosch, Gmobs, Medha Servo Drives, Honda Mobis, Veda IIT, GE Lighting (India), LMS Automation, RINL, APEPDCL, APGENCO, APTRANSCO, BHEL, NTPC, RRB.
- B KUSHAL KUMAR (17131D5301) has participated and Won GOLD Medal in Table Tennis Represented in E.G dist in STAG AP Inter district and state TT champ in Oct 2018.

- K. ABHINAY (15131A0241) has participated and Won Silver Medal in Hockey at All India Inter University Roller Sports Championship in Jan 2019.
- Komati Parthasarathi (2013-17) got selected for IIM Udhayapur in 2019.
- Diwakar (2016-2020 Batch) of Department of EEE has secured admission in IIT Palakkad.
- 49 B. Tech. (EEE) students have participated in SASTRA fest in IIT Madras, Jan 2020.
- 10 students of Department EEE have been qualified in GATE 2020.
- Under IUCEE APSSDC initiative two students and two faculties have been trained under the virtual and remote engineering. The work done by students and the team was published in Springer International cited as "Chakravarthy, R. et al. (2020) "Verification of Zener Voltage Regulation Phenomenon Using Remote Engineering BT - Cyber-physical Systems and Digital Twins", (pp.184–192).

3. Faculty Achievements & Research

- Dr. K.V. Praveen Kumar, Assistant Professor was awarded Doctorate Degree in the research area of Power Electronics and Drives at NIT Warangal in 2019.
- Dr. K. Srikanth, Assistant Professor was awarded Doctorate Degree in the research area of Control Systems at GITAM University, Visakhapatnam in 2020.
- Dr. K.S.R. Murthy, Assistant Professor was awarded Doctorate Degree in the research area of Power Systems at NIT Hamirpur in 2020.
- Dr. O.V.S.R. Vara Prasad, Assistant Professor was awarded Doctorate Degree in the research area of Power Electronics and Drives at NIT Warangal in 2020.
- Mr. A. Ravi Shankar, Assistant Professor is pursuing part time Ph. D. in the research area of Power Systems Generation at Andhra University, Visakhapatnam.
- Mr. K. Durga Malleswara Rao, Assistant Professor is pursuing full time Ph. D. in the research area of Power Systems at IIT, Madras through QIP.
- Mr. G. Surya Chandra, Assistant Professor is pursuing full time Ph. D. in the research area of Power Systems at National Tsing Hua University, Taiwan.
- Mr. P. Anantha Chaitanya, Assistant Professor is pursuing part time Ph. D. in the research area of Power Systems at JNTUK, Kakinada.
- 6 more faculty members are pursuing part time Ph. D. in the area of Power Systems & Power Electronics at NIT Rourkela, NIT Meghalaya & Universities.
- 2 more faculty members are pursuing part time Ph. D. under Visweswarayya Ph. D. scheme in the area of Power Electronics at NIT Rourkela.
- Dr. K. Srikanth has published a Monograph on "Enhanced Electromagnetic Swarm yields better optimization" in International Journal of Swarn Intelligence, Inder science Publishers Ltd. in 2019.
- Dr. K. Srikanth elevated to Senior IEEE Member grade in 2020, which is achieved by only 10% of all IEEE Members worldwide.
- Dr. K. Srikanth has qualified to pre-final round of CONFERO, a virtual debate competition conducted by IEEE Kerala Young Professionals in 2020.
- Dr. K. Narasimha Rao, Professor & Head of Department (EEE) along with 4 B.Tech (ECE) students Participated in the Silicon Valley Meetup at Stanford University, San Francisco, USA sponsored and funded by GVPCE (A) under Andhra Pradesh State Skill Development Corporation (APSSDC) Intern programs

- in November 2017 and received as “Best Faculty Champion” by the M/s GOOGLE, San Fransico, USA.
- 8 faculty members are identified as a reviewer for the various national & international journals.
 - JNTU-K recognized dept. of EEE as a research center for the academic years 2017-18, 2018-19. 2019-20.
 - 4 faculty members have been accorded recognition by the JNTU K/Reputed Private Universities to act as Supervisor/ Co- Supervisor.
 - Mrs. K. Hema Lalitha has participated in National Dance Festival at Banaras Hindu University – Varanasi and awarded with title “NATYA BHARATHI” on July 28th 2018.
 - One Faculty member received Best paper award in IEEE GUCON-2018.
 - The Department of EEE was sanctioned a sum of Rs. 3,29,000/- (Rupees Three lakhs Twenty Nine Thousand Only) for conduct of STTP (Short Term Training Programme) on Recent trends in Power Quality Improvement Techniques in Grid Connected DG Systems by AICTE, New Delhi.
 - The Department of EEE was sanctioned a sum of Rs. 2,14,256/- (Rupees Two lakhs Fourteen Thousand Two hundred and Fifty Six Only) for conduct of AICTE – ISTE Sponsored One Week Induction / Refresher Programme on “Solar PV Systems – Design And Performance Evaluation (SPVSDPE)” Organized by Department of Electrical and Electronics Engineering, Gayatri Vidya Parishad College of Engineering (Autonomous) from 25th June to 30th June, 2018.
 - 22 faculty members have completed online certification (FDP) course like Coursera, NPTEL (SWAYAM), for enhancing their Knowledge among them 5 faculty have been certified with merit Elite+Gold, Elite+Silver.
 - 45 Papers have been published in various Conferences and reputed journals since last 3 years.

4. Research and Consultancy

- HBL Power systems, Hyderabad sponsored R & D Project related to Electrical Vehicle drive system, where EEE department, GVP college of Engineering is participating along with EE department IIT- Bombay with Dr. Sastry V Vedula as the Project coordinator and the assured sum for GVPCE is Rs 56 Lakhs spread over 2 years between January 2019 - December 2020.
- Internships of B.Tech & M.Tech students in core companies like G.E Lighting, National Science Technological Laboratories (NSTL), Central Power Research Institute (CPRI), Mahindra Reva (Bangalore), Steel Plant, Amar Raja Batteries Ltd., Hindustan Petroleum Corporation Limited (HPCL), etc.
- Department of EEE, GVPCE (A) has played the anchor’s role in commissioning of 199 kW Wind-Solar hybrid plant (initially proposal sanctioned in Jan 2012) in the premises of 3 GVP institutions, worth Rs. 3.73 crores, of which Ministry of Non-Renewable Energy sources (MNRE) sponsored Rs 1.70 crores. The Project-coordinator of this project is Dr. Sastry V Vedula.
- AICTE(DST) has approved R&D Project on “Direct Torque Controlled Induction Motor Drive for Hybrid Electric Vehicles with Space Vector Modulated Sliding Mode Controller to reduce torque ripple”, with a sanctioned amount of Rs. 9 Lakhs by Dr. G. V. E. Satish Kumar.

- HBL Power Systems Ltd. has signed for a Consultancy with GVPCE (A) for a period of 2 years with a proposed amount of Rs.49.045 Lakhs by Dr. Sastry V Vedula.

5. Patents

- Dr.Sastry V Vedula, K. Harija Rani, Dept. of EEE have filled an Indian Patent titled “Integrated Power Converter topology with built in safety protection circuit for Grid independent Variable voltage, frequency Applications” in June 2020.

6. Academic & Technical Resources

- Licensed version of SABER software worth 8 lakhs (approximately) has been procured in Dept of EEE, GVPCE, with the financial aid of HBL Power Systems Ltd, as part of their consultancy contract with Dr Sastry V Vedula.
- An initiative has been taken, with co-ordinator being Dr.K. Srikanth, for Robotic Developments under GVPCE RoboClub and a seed money of Rs.1,10,400 has been sanctioned to it by GVPCE (A).
- Licensed version of JMAG(FEM) software worth of 6.5 lakhs(approximately) has been procured in Dept of EEE, GVPCE, with the financial aid of HBL Power Systems Ltd, as part of their consultancy contract with Dr Sastry V Vedula.
- One My Rio, IGBT based inverter, 8051 microcontroller & Voltage source inverter worth of 3 lakhs has been procured in Dept of EEE, GVPCE (A).
