

Newsletter - Electrical and Electronics Engineering

PRINCIPAL:

Dr.V.Manikandan

Chief Editor :

Ms.A.Shiny Pradeepa, Head of Electrical and Electronics Engineering Department.

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1.Mrs.J.Merlin Prabha, Assistant Professor in Electrical and Electronics Engineering.

2.Dr.S.J.Ben Christopher, Assistant Professor in Electrical and Electronics Engineering.

3.V.Seenivasan prem, VII semester B.E. - Electrical and Electronics Engineering student.

4.P.JeyaBalaji, V semester B.E. - Electrical and Electronics Engineering student.

PSN College of Engineering and Technology (Autonomous), Accredited by NAAC. the department of EEE was established in the year 2004, and our department accredited by National Board of Accreditation on November 2023. Our main aim is to give quality of education to students and to encourage entrepreneurship skills among students. The department has experienced professors. The Department is well equipped with state-of-the art laboratories. Departmental Library is furnished with PC, Internet, 905 technical books. Our students got placed with salary packages in Faurecia, SSV Transformers, FOXCONN, KMIL, JMD and more software companies. Electrical Engineers have more job opportunities in government sectors like NTPC, Power Grid, TNEB.



DEPARTMENT ACHIEVEMENT:

Success is the fruit of hard work pursued with energy, intelligence, and determination.” No wonder you have made it! PSNCET Management, Faculty and staff Congratulated the Electrical and Electronics Engineering Department team for getting NBA Accredited!! on November 2023. All the hardships involved have been fruitful with NBA Accreditation sanctioned to the department for three years.



STUDENTS ACHIEVEMENT AND CONTRIBUTIONS:

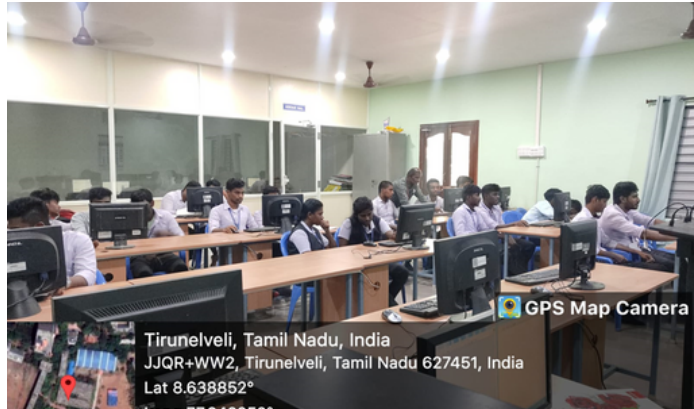


Co-curricular Activity:

- 1.S.Ershithvaran- IV/EEE student is co-founder of quicker Automation pvt.ltd . He invented the various Product He attend so many Entrepreneurship program and Win the medal from that Program.
- 2.E.Thangamuneeswari III/EEE Volly ball Mach District Level Womens Day Runner and District Level ZONE 18 Runner
- 3.Riley aswin and Jeyabalaji Hocky CM Trophy winners and Zone 18 winners.
- 4.Our department 25 students plant a trees in our college campus.

DEPARTMENT ACTIVITIES

VALUE ADDED COURSES:

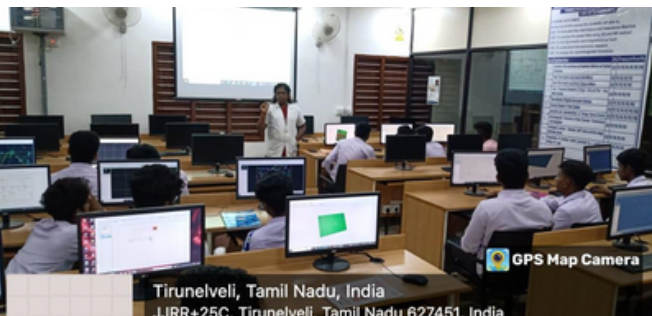


Department of Electrical and Electronics Engineering, PSN College of Engineering and Technology organized the value added course on “Virtual Instrumentation using labview” from 7/9/2023 to 11/9/2023. This value added course focused on Lab view software. 33 students registered and participated in this value added course. Hands on training is given to the participants on Labview software. The vote of thanks which was given by Dr.S.J.Ben Christopher Assistant Professor – EEE, PSNCET. The course was well accepted by the students which are noted from the feedback given by them. The students are encouraged to utilize the Labview software for their project works.

Department of Electrical and Electronics Engineering, PSN College of Engineering and Technology organized the value added course on “PLC and SCADA – A modern state of the technical art” from 25.09.2023 to 29.09.2023 at Bosch Laboratory, Centre of excellence, PSNCET. This value added course focused on PLC basics, Boolean logic, Ladder programming, K-map Solving procedures, PLC training, SCADA programming etc., 25 students registered and participated in this value added course.



Department of Electrical and Electronics Engineering, PSN College of Engineering and Technology organized the value-added course on “Proteus and PCB design in Proteus” from 21/11/2023 to 27/11/2023. This value-added course focused on Proteus software. 24 students registered and participated in this value-added course. Hands-on training is given to the participants on Proteus software. The course was well accepted by the students which is noted from the feedback given by them. The students are encouraged to utilize the Proteus software for their project work.



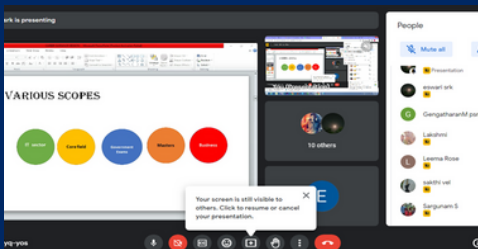
EXTENSION ACTIVITY

Department of Electrical and Electronics Engineering, PSN College of Engineering and Technology organized the Extension Activity on “Drug Abuse” on 25.07.2023. This Extension activity focused on awareness create to sengalukurichi village. 38 students are participated in this Extension activity.



WEBINAR ORGANIZED:

Department of Electrical and Electronics Engineering, PSN College of Engineering and Technology inaugurated the Department Association (SHEEN). Ms.A.Shiny Pradeepa, AP/EEE delivered the welcome address. Dr.A.Bhuvanesh, HOD/EEE conveyed the special address. Ms.V.Jenitha, AP/EEE presented the Department achievements and discussed the upcoming events and consequently a webinar was conducted on “Mantra for Success” on 28.06.2023 through Google Meet with Ms.S.R.Kuthaleswari, Systems Engineer, TCS & Alumni-EEE/PSNCET. This webinar is organized to guide the students to promote their career goals. The participants have interacted with the Alumni. 47 students registered and participated in this webinar. The vote of thanks which was given by Mrs.S.Indhumathi AP/EEE, PSNCET. The webinar was well accepted by the students which are noted from the feedback given by them.



ENGINEERS DAY EVENT ORGANIZED:

Department of Electrical and Electronics Engineering, PSN College of Engineering and Technology organized speech and quiz competition to commemorate Engineers Day on 15/09/2023 at EEE Seminar hall. All the event arrangements were taken care by the Mr. S Mano Raja, Assistant Professor - EEE, PSNCET. The event was inaugurated by Dr. A Bhuvanesh, HOD - EEE, PSN College of Engineering and Technology, Tirunelveli. Dr. S J Ben Christopher, Assistant Professor - EEE, PSNCET has conducted the events. Dr J Leema Rose, Associate Professor, EEE and Mrs. S Indhumathi, Assistant Professor, EEE, were designated as in charge for assessing the competitors participated in both the events. The vote of thanks was delivered by Mr Mano Raja, Assistant Professor – EEE, PSN College of Engineering and Technology, Tirunelveli.



ISTE PROFESSIONAL BODY EVENT ORGANIZED:



Department of Electrical and Electronics Engineering and ISTE student chapter jointly organized the event on 07-09-2023. This event encompassed with students talent on “Quiz Competition for Electrical Entrepreneurship” which is held at Electrical and Electronics Engineering Seminar hall at 10.30 A.M. – 12.10 P.M. 47 students registered and participated in this event. The event is conducted by the coordinator Mrs.S.Indhumathi, AP/EEE. Students actively participated in this event. The certificates and prizes were given to the prize winners.

INDUSTRIAL VISIT ORGANIZED:

The department of Electrical and Electronics Engineering hosted an industrial visit to Vikram Sarabhai Space Center (VSSC), ISRO, Thiruvananthapuram, Kerala on 17/11/2023 for 25 students belonging to II year (3rd Semester) EEE. The students were accompanied by faculty members Dr. S. J. Ben Christopher, AP/EEE and Mr. S. Manoraja, AP/EEE (Industrial Visit Coordinator). Around 5:30 am on 17.11.2023, the bus with a total of 22 students and 2 faculty members departed from the college premises. By 10.30 am, our group had arrived at the venue.



Fig: Students at VSSC museum, Thiruvananthapuram.

FACULTY JOURNAL PUBLICATION

1. N.Hemalatha, A.S.Kamaraja, **A. Bhuvanesh** and K. Karthik Kumar, “Analysis on insulating characteristics of natural high oleic ester and mineral oil based blended oil under accelerated thermal aging exposure”, Biomass Conversion and Biorefinery, 2023. <https://doi.org/10.1007/s13399-023-04842-1>. Impact Factor: 4.10.
2. S. Amose Dinakaran, **A. Bhuvanesh**, A.S. Kamaraja, P. Anitha, K. Karthik Kumar, P. Nirmal Kumar, “Modelling and performance analysis of improved incremental conductance MPPT technique for water pumping system”, Measurement: Sensors, 2023, 100895, ISSN 2665-9174, <https://doi.org/10.1016/j.measen.2023.100895>.
3. C.Senthil Kumar, **A.Bhuvanesh**, A.S.Kamaraja, K. Karthik Kumar, “Performance evaluation of solar combined boosting topology for EV battery charger using Interval type – 2 fuzzy controller”, Springer - Electrical Engineering, Accepted for publication. 2023. Impact Factor: 1.80
4. Hemalatha, N., Kamaraja, A.S., **Bhuvanesh, A.** et al. Exploring the insulating characteristics of transesterified used cooking oil and blends with corn oil infused with natural antioxidants. Biomass Conv. Bioref. (2023). <https://doi.org/10.1007/s13399-023-05219-0>. Impact Factor: 4.0.
5. Vani Easwaran, **Jasmine Gnanamalar, Bhuvanesh Ananthan**, Rathinamala Shanmugam, MODELLING OF BIDIRECTIONAL DUAL INPUT ENERGY HARVESTING CONVERTER FOR RAPID CHARGING, Rev. Roum. Sci. Techn.– Électrotechn. et Énerg., Accepted for Publication. Impact Factor: 0.7
6. K.N. Prashanth Kumar, B.T. Harish Kumar, **A. Bhuvanesh**, Spectral clustering algorithm based web mining and quadratic support vector machine for learning style prediction in E-learning platform, Measurement: Sensors, Volume 31, 2023, 100962, ISSN 2665-9174, <https://doi.org/10.1016/j.measen.2023.100962>.
7. N. Hemalatha, S. Venkatesan, R. Kannan, S. Kannan, A. **Bhuvanesh, A.S.** Kamaraja, Sensorless speed and position control of permanent magnet BLDC motor using particle swarm optimization and ANFIS, Measurement: Sensors, Volume 31, 2024, 100960, ISSN 2665-9174, <https://doi.org/10.1016/j.measen.2023.100960>.
8. S. Amosedinakaran, M. Mano Raja Paul, S. Kannan, M. Geetha, P. Anitha, **A. Bhuvanesh**, Performance analysis of battery E-vehicle system using open loop and closed loop application, Measurement: Sensors, Volume 31, 2024, 100963, ISSN 2665-9174, <https://doi.org/10.1016/j.measen.2023.100963>.
9. Ramya Thatikonda, Dileep Kumar Yendluri, Reshmi Tatikonda, Jainath Ponnala, M.Kempanna, **A.Bhuvanesh**, “Integration of SAP and Intelligent Robotic Process Automation”, IEEE International Conference on Next Generation Electronics (NEleX 2023)”, VIT, Vellore, India, 2023.
10. Ramya Thatikonda, Dileep Kumar Yendluri, Reshmi Tatikonda, Jainath Ponnala, M.Kempanna, **A.Bhuvanesh**, “The Impact of Blockchain and AI in the Finance Industry”, International Conference on Computational Intelligence, Networks and Security (ICCINS-2023)”, Telungana, India, 2023.
11. S.Prathiba, S.Suresh, **A.Bhuvanesh**, M. Petchithai, A.Sheela, Amirtharaj G, “Performance Evaluation of Fuzzy Logic Controller Enabled Wind Energy Conversion System”, IEEE International Conference on Energy, Materials and Communication Engineering (ICEMCE), December 14 – 15, 2023, Madurai, India.
12. S. Manivannan, S.H.Vishnu, P.Sivabalan, D. Logesh, **A.Bhuvanesh**, “Synergic Study of Wear and Corrosion Behaviour of Low Alloyed High-Strength EH47 Ship Hull Steel”, IEEE International Conference on Energy, Materials and Communication Engineering (ICEMCE), December 14 – 15, 2023, Madurai, India.

FACULTY CONFERENCE/FDP/WORKSHOP PARTICIPATION

1. Ramya Thatikonda, Dileep Kumar Yendluri, Reshmi Tatikonda, Jainath Ponnala, M.Kempanna, **A.Bhuvanesh**, "Migration of Automated Bots from Automation Anywhere to UiPath Platform", IEEE International Conference on Multidisciplinary Research in Technology and Management, Bangalore, India, 2023.
2. Ramya Thatikonda, Dileep Kumar Yendluri, Reshmi Tatikonda, Jainath Ponnala, M.Kempanna, **A.Bhuvanesh**, "Migration of Automated Bots from Automation Anywhere to UiPath Platform", Springer International Conference on Advances in Technologies and Applications for Sustainability, Tirupathi, India, 2023.
3. Mrs.S.Indhumathi, Dr.J.Leemarose, Dr.S.J.Ben Christopher Participated the one week online Workshop on Recent Advances in Control and Instrumentation Design Techniques of Robotic Systems" from 27.10.2023-31.10.2023 organised by the Department of Instrumentation and control Engineering, National Institute of Technology, Tiruchirappalli, India.

4. Mrs.S.Indhumathi, Participated in one day Ansys Academic Innovation conference at Tirunelveli on 24th November 2023.
3. Dr.J.Leemarose, Participated in 6 Day Faculty Development Program on D6 Day Atal Faculty Development Program on Machine learning at Francis Xavier Engineering college from 18.12.2023-23.12.2023.
5. Dr.J.Leemarose, Participated in 5 Day Faculty Development Program on Artificial Intelligence and deep learning at Sri ram college of Engineering from 26.12.2023-30.12.2023.
6. Dr.J.Leemarose, Dr.S.J.Ben Christopher Participated in 5 Day Faculty Development Program on Data Analytics using Python conducted by ICT Academy from 06.11.2023-10.11.2023.

VISION OF THE INSTITUTION

To emerge as a pioneer institute inculcating engineering education, skills, research, values and ethics.

MISSION OF THE INSTITUTION

To achieve greater heights of excellence in technical knowledge and skill development through innovative teaching and learning practices.

To develop the state of art infrastructure to meet the demands of technological revolution.

To improve and foster research in all dimensions for betterment of society.

To develop individual competencies to enhance innovation, employ ability and entrepreneurship among students.

To instill higher standards of discipline among students, inculcating ethical and moral values for societal harmony and peace.

VISION OF THE DEPARTMENT

- To emerge as pre-eminent program for quality Electrical and Electronics Engineering Graduates

MISSION OF THE DEPARTMENT

- To enable quality infrastructure for advanced knowledge and skills towards learning under congenial environment for global placement, higher studies, research and entrepreneurship.
- To stimulate the process of critical thinking and problem solving with special focus on research capabilities.
- To enhance professional ethics and standards to meet the demands of society.

PROGRAM SPECIFIC OUTCOMES [PSOS]:

- Ability to work professionally in the field of Power System, Control system and Power Electronics with the knowledge of operation and Maintenance.
- Ability to solve complex real time problems in Electrical and Electronics Engineering field using modern tools.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS):

- The graduates of Electrical and Electronics Engineering will be able to,
- Apply their knowledge and skills to provide solutions to electrical and electronics engineering problems in industry and governmental organizations or to enhance student learning in educational institutions.
- Work as a team with a sense of ethics and professionalism and communicate effectively to manage cross-cultural and multidisciplinary teams.
- Update their knowledge continuously through lifelong learning that contributes to personal, organizational, and societal growth.

PROGRAM OUTCOMES OF B.E. IN ELECTRICAL ENGINEERING (PEOS):



For More Information Click or scan the QR code 

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