



NEWSLETTER



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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Patron

Dr. P. Selvakumar
Executive Director, PSNCET.

Co-Patron

Dr. V. Manikandan,
Principal, PSNCET_

Head of Department

Dr. T.Rajesh,
(Prof & Head of Department, ECE)

NEWSLETTER ISSUE EDITOR

Faculty members :

Dr.K.Sakthi Murugan ASP/ECE
Dr.C.Mariyal ASP/ECE
Mr.K.Jebastin AP/ECE

Student Members :

C. Vishnu (III-ECE)
S.Maha vishnu (III-ECE)
K.Sudalaimani (II-ECE)

VISION OF THE INSTITUTION :

To emerge as pre-eminence program for quality Electronics and Communication Engineering Graduates

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, employability 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 create innovative electronics and communication engineering graduates with technical proficiency, social concern and commitment in pursuit of excellence

MISSION OF THE DEPARTMENT:

- Achieving technical proficiency by research oriented teaching-learning process using modern teaching aids and inculcate programming skills by consistent training in centre of excellence
- Imparting social and ethical values through social value education and inculcating the importance of ethics in profession.
- Providing entrepreneurial skills and leadership qualities for the sustainable development of the nation

PRINCIPAL DESK

It is a matter of immense pleasure to place in your hands the Newsletter PSN College of Engineering and Technology (autonomous). The Newsletter highlights the achievements and activities of the college in different spheres. In accordance with the lofty vision and mission of the college, the faculty and the students are doing their very best to reach high standards of quality teacher education. It is certainly not an easy task to set high standards and then excel these standards year after year. The college has been a forerunner in incorporating the latest trends and technologies – efforts which have won acclaim in academic circles.

I am fully confident that the College will march ahead and add more achievements to its name. I would like to send my best wishes to the staff and students for showing commendable performance and give good account of themselves in worthwhile endeavour

Dr.V.Manikandan

HOD DESK

I am pleased to share some of the exciting news in the Department of Electronics and Communication Engineering happened during the academic year 2023-24 through our newsletter.

Newsletter is believed to be a focus of the inside activities i.e. academics, achievement of students and faculty as well as innovation occurring in the department. In the era of engineering and technology, this newsletter will motivate the teachers and students of sharing their creativity and new ideas with the world and will help in their overall development.

During this year, the staffs and students involved in various academic, cocurricular, extra-curricular as well as research & developments activities. As you read through the pages you will realize, that the Department had a successful academic year. I would like to thank all my colleagues for their tireless efforts for the progress of the department at a very steady pace.

Dr.T.Rajesh

Program Educational Objectives (PEOs):

- To impart knowledge in students with strong foundation in Mathematics, science and fundamentals of engineering and help them understand the design and developmental concepts of ECE.
- To train students to identify, formulate and solve engineering problems in various technologies.
- To equip the students with ability to design and demonstrate technical competence in their core applications through multidisciplinary concepts and contemporary learning to mould them to develop as industry- ready graduates.
- To help students to acquire soft skills with good communication, ethical values and capability to relate engineering issues to broader social contexts.



Program Outcomes:POs

- Engineering Knowledge
- Problem Analysis
- Design / Development of Solutions
- Conduct Investigations of Complex Problems
- Modern Tool usage
- The Engineer and Society
- Environment and Sustainability
- Ethics
- Individual and Team Work
- Communication
- Project Management and Finance
- Life-long Learning

DEPARTMENT ACTIVITIES

INDUSTRIAL VISIT

Department of Electronics and Communication Engineering, PSN College of Engineering and Technology organized the Industrial visit at Atos Global IT Solutions and Services Pvt.Ltd Park, Gangaikondan on 04-02-2023. 60 students registered and participated in this Industrial visit.

The students were filled with excitement as they boarded the bus that would take them to Atos Global IT Solutions and Services Pvt. Ltd Park. As they arrived, they were greeted by friendly staff members who were eager to show them around the cutting-edge facilities. The students were taken on a tour of the various departments, where they got a firsthand look at the latest technologies being developed.

The students were amazed by the state-of-the-art equipment and innovative projects being showcased at Atos Global IT Solutions and Services Pvt. Ltd Park. They had the opportunity to interact with professionals working in different departments, gaining valuable insights into the world of electronics and communication engineering. The visit not only provided them with practical knowledge but also inspired them to dream big and aim for excellence in their future careers. It was a day filled with learning, networking, and unforgettable experiences that left a lasting impression on the students, motivating them to strive for success in their academic and professional pursuits.



Industrial visit at Atos Global IT Solutions and Services Pvt Ltd, ELCOT IT Park, Gangaikondan on 04-02-2023



Department of Electronics and Communication Engineering, PSN College of Engineering and Technology organized the Industrial visit at Kudankulam Nuclear Power Project, on 25-10-2023. 40 students registered and participated in Industrial visit. The visit began with an informative session where the students learned about the significance of nuclear power in today's world. They were given a tour of the various facilities at the Kudankulam Nuclear Power Project, showcasing the advanced technology and safety measures in place. The students engaged in interactive sessions with the engineers and technicians working at the plant, gaining valuable insights into the practical applications of their theoretical knowledge. They also had the opportunity to witness the operational aspects of the power plant and understand the complexities involved in generating nuclear energy.

The students were fascinated to see the control room where operators monitored the reactor's performance and safety protocols. They were impressed by the precision and expertise required to handle such advanced machinery. As they walked through the plant, they observed the stringent safety measures in place, emphasizing the importance of following protocols in a nuclear facility. The visit concluded with a Q&A session where students eagerly asked questions about the plant's operations and future advancements in nuclear technology. Overall, the industrial visit was a valuable learning experience that broadened the students' understanding of nuclear power and its role in meeting the world's energy needs.

• SEMINARS ♦

Department of Electronics and Communication Engineering, PSN College of Engineering and Technology organized the Seminar on 5G Technology.

The Seminar on 5G Technology was a groundbreaking event that brought together experts, researchers, and students to explore the future of communication technology. With the rapid advancements in wireless technology, the Department of Electronics and Communication Engineering at PSN College of Engineering and Technology aimed to provide valuable insights into the innovative capabilities and potential applications of 5G technology.

Overall, the Seminar on 5G Technology was a resounding success, leaving participants motivated and equipped to embrace the exciting possibilities that lie ahead in the realm of communication engineering.

The event showcased the latest trends and developments in 5G technology, shedding light on the transformative impact it is set to have on various industries. Attendees were able to engage in stimulating discussions, network with like-minded individuals, and gain a deeper understanding of the technical aspects and real-world implications of 5G technology.

As we move towards a future that is increasingly interconnected and technologically advanced, it is events like these that serve as catalysts for progress and drive innovation in the realm of communication technology. The Seminar on 5G Technology was a testament to the commitment of PSN College of Engineering and Technology to empower and inspire the next generation of engineers and technologists.



Seminar on 5G Technology

♦ EXTENSION ACTIVITIES

Department of Electronics and Communication Engineering, PSN College of Engineering and Technology organized the Awareness Program on Educational Development Scheme on 25-07-2023 at, Sigikulam.

The program aimed to enlighten students about various educational development schemes available to support their academic pursuits. Faculty members shared valuable insights on scholarships, internships, and other opportunities to enhance learning and career prospects. The event also featured interactive sessions where students could clarify doubts and seek guidance on leveraging these schemes effectively. Overall, the Awareness Program on Educational Development Scheme was a resounding success, empowering students to make informed decisions and strive for excellence in their educational journey.

The students actively participated in the program, eagerly absorbing the information shared by the faculty members. They were particularly enthusiastic about the scholarships and internships that could potentially broaden their horizons and open up new possibilities for their future. The interactive sessions facilitated meaningful discussions and allowed students to gain clarity on how to take advantage of these opportunities.



• VALUE ADDED COURSES ♦



- The Department of Electronics and Communication Engineering at PSN College of Engineering and Technology is dedicated to providing valuable educational opportunities for students. The upcoming schedule includes a series of exciting Value Added Courses aimed at enhancing knowledge and skills in various cutting-edge technologies.
- The first course on IoT Based Communication and its Applications will be held from August 24th to August 29th, 2023. Participants can look forward to gaining insights into the latest trends and developments in the field of Internet of Things.
- Following that, the department will be organizing a course on Artificial Intelligence from October 17th to October 21st, 2023. This course promises to delve into the fascinating world of AI, offering hands-on experience and practical applications.
- Lastly, a course on Web Design and Technologies is scheduled from November 21st to December 4th, 2023. Participants can expect to learn about the latest tools and techniques in web design, enabling them to create innovative and user-friendly websites.
- These Value Added Courses are designed to equip students with the knowledge and skills needed to excel in the ever-evolving field of electronics and communication engineering. Participants are encouraged to take full advantage of these opportunities to enhance their learning and broaden their horizons.

STUDENTS ACHIEVEMENT AND ACTIVITIES

STUDENT ACHIEVEMENT

C.Vishnu (III-ECE)

(Idea for the Title is Bike Accident Perversion)

Congratulations to our department student for having their idea selected in the MSME Hackathon! With a total of 13,764 ideas submitted from across India, being among the top 276 selected for the grant is truly an impressive achievement. This recognition not only showcases the creativity and innovation of our student but also highlights the potential impact their idea could have. We are excited to see how this idea continues to develop and make a positive difference. Keep up the great work!

We are incredibly proud of our department student for their remarkable accomplishment in being chosen as one of the top 276 ideas in the MSME Hackathon out of 13,764 submissions. This achievement is a testament to their creativity, dedication, and innovative thinking. It is truly inspiring to see the potential impact that their idea could have in shaping a better future. We are eagerly looking forward to witnessing the continued growth and success of this idea as it progresses towards making a positive difference in the world. Keep up the fantastic work, and continue to dream big!



Grand worth of
14.25 L



STUDENT ACTIVITIES

- Our department student Santhosh were First Place for Kabadi in Anna University Zone 18.
- Our department student Kegin Raj were second place for Foot Ball in Anna University Zonal Match.
- Our department 32 students were completed Spoken Tutorial - Inkscape in IIT Bombay.
- Our department 16 students were completed Spoken Tutorial - C and C++ in IIT Bombay.
- Our department 14 students were completed Spoken Tutorial - Scilab in IIT Bombay.
- Our department 16 students were completed Spoken Tutorial - Arduino in IIT Bombay.
- Our department 17 students were completed Spoken Tutorial - Esim in IIT Bombay.

FACULTY JOURNAL PUBLICATION

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- N. Subbulakshmi, R. Sravanthi , M. Subi Stalin , T. Swapna , T. Rajesh , Y.Greeshma Low power arithmetic logic unit based sliced processor using GDI and MGD(IALUSGDI), Measurement: Sensors,Elsevier.28 <https://doi.org/10.1016/j.measen.2023.100842>.
- Ida Evangeline, S & Rathika.P 2023, 'Challenges, strategies and opportunities for wind farm incorporated power systems: a review with bibliographic coupling analysis', Environmental Science and Pollution Research, vol.30, DOI: doi.org/10.1007/s11356-022-24658-2, ISSN: 1614-7499, Referred Journal List Given in Anna University Portal, Journal List - S. No. 3815 Impact Factor:5.190.
- Ramamoorthi.S , Muthukumar.B AhilanAppathurai "Energy aware clustered block chain data for IoT: An end to end lightweight secure & En route filtering approach, Journal of Computer Communications, February 2023.
- Dr.Mariyal, Dr.K.SakthiMurugan, G.Muthuselvam Biochemical Sensor for brain tumours surveillance with artificial Intelligence, EUR.CHEM.BULL, ISSN: 1076-1082, Volume -12, Special Issue-4 (2023)
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- SJJ Arputhamoni, AG Saravanan,"Online Smart Voting System Using Biometrics Based Facial and Fingerprint Detection on Image Processing and CNN", Third International Conference on Intelligent Communication, Feb 2021.
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- Ms. A.Anbu Rani, Dr. T. Rajesh, Dr. C.Mariyal, "Mri Brain Tumor Detection Using Fuzzy C Means Clustering Algorithm", Eur. Chem. Bull. 2023, 12(Special Issue 10), 2462- 2471