

### Editorial Board

*Dr.R.V.D.Rama Rao*

*Prof & HOD, EEE Dept.*

*Mrs.I.V.V.Vijetha*

*Asst. Prof , EEE Dept.*

*Mrs.M.Lavanya*

*Asst. Prof , EEE Dept.*

Phone:

08816-251333

Fax:

08816-250344

E-mail:

hod\_eee@vishnu.edu.in



# ELECTRICAL & ELECTRONICS ENGINEERING

## NEWS LETTER

Volume 11, Issue 1, April 2024

### Inside this issue

|   |       |
|---|-------|
| Project Model Exhibition Event                                | 3     |
| ICSSES  | 4,5   |
| Industrial Visit to 220 kv Undi Sub Station                   | 6     |
| MSME Incubator Project  | 7     |
| Facilty Development Program & Training on Applications of IOT | 8&9   |
| Faculty Publications & Internships                            | 10&11 |

*Vishnu Institute of Technology  
(Autonomous)*

*Vishnupur, Bhimavaram  
A.P-534202*

## **VISION OF THE DEPARTMENT**

To be recognised as a Centre of Excellence in the field of Education and Research so as to produce Competent & Ethical Engineers capable enough to contribute to the society.

## **MISSION OF THE DEPARTMENT**

- To develop innovative, efficient and proficient electrical engineers.
- To keep the curriculum industry friendly, with due regard to the University curriculum.
- To be a place for innovative blended learning and entrepreneurship development in multidisciplinary areas
- To promote ethical and moral values among the students so as to make them emerge as responsible professionals.

## **PROGRAM EDUCATIONAL OBJECTIVES (PEOS)**

**PEO1:** To produce Electrical and Electronics Engineering graduates who have strong foundation in Mathematics, Sciences and Basic Engineering.

**PEO2:** To develop problem-solving abilities, technical competency and proficiency in modern engineering tools through hands-on laboratory experience and innovative projects.

**PEO3:** To prepare graduates for successful careers in industry, research or higher education, empowering them to excel in diverse engineering and technology-related fields or become entrepreneurs.

**PEO4:** To inculcate in students professional and ethical attitude, effective communication skills, teamwork skills, multidisciplinary approach, and an ability to relate engineering issues to broader social context through life-long learning.

# GALVANISM

## PROJECT MODEL EXHIBITION EVENT



Students from department of Electrical & Electronics Engineering are winners of Third Prize (Rs. 10,000/-) competing with projects from IITs and NITS in Prestigious INAE- SERB- GITAM YOUTH CONCLAVE 2023.

### Mentor:

Dr. V S N NARASIMHA RAJU

The following students are participated in MODEL PROJECT EXHIBITION EVENT conducted as part of the 6th INAE-SERB-GITAM YOUTH CONCLAVE on 3rd& 4thNov, 2023 at GITAM University, Visakhapatnam.

- 1.Mr.Kaza Gowtham Siddharth -22PA1A0225
- 2.Mr. Pasupuleti Veera Venkata Chaitanya -20PA1A0275
- 3.Mr.N Siva Sankara Vara Prasad Naik -21PA5A0217
- 4.Mr.Mukkavalli Sai Srinivas -22PA1A0243



# ICSSSES 2024



## Day 1:

ICSSSES 2024 Inauguration and Keynote Addresses The inaugural day of ICSSSES 2024 commenced with a serene Prayer Song performed by students, setting a harmonious tone for the event. Prof. Bhanupriya, the Moderator, welcomed the gathering, and Dr. R V D Rama Rao, the Organizing Chair, initiated the proceedings with a warm welcome..

The Presidential Address by Dr. M Venu, the Principal of VITB, highlighted the significance of the conference. Dr. D Suryanarayana, the Director of VITB, delivered a Felicitatation Address, acknowledging the collaborative efforts that made the event possible.

The day's highlight was the insightful Chief Guest Addresses. Dr. Akbar Ahmad, an International Academic Consultant, and Visiting Professor from Britts Imperial College University, Dubai, shared valuable perspectives. Dr. V Karthikeyan, Associate Professor at NIT Calicut, Kerala, India, provided another enriching address.

Dr. Raju Aedla, Dean R&D at SVES, expressed appreciation, and a Souvenir Release by the dignitaries was followed by a captivating Virtual Photo Session. The day concluded with a Vote of Thanks from Dr. S. Pragaspathy, the Convener of ICSSSES 2024.

# ICSSES 2024

## Day 2:

**Tracks, Addresses, and Reflections** The second day of ICSSES 2024 saw a continuation of the conference's momentum. Dr. R V D Rama Rao, in his second address as Organizing Chair, set the stage for another day of enriching discussions.

Chief Guest Address by Dr. B. Chitti Babu from PV Research Laboratory, IIIT D&M, Kancheepuram, Tamil Nadu, added depth to the academic discourse. Dr. S. Pragaspathy, the Convener, provided insights into the conference proceedings. Addresses from Dr. M Venu, the Principal, and Dr. D. Suryanarayana, the Director of VITB, enriched the participants with institutional perspectives. The Feedback session allowed participants to share their thoughts, enhancing the collaborative spirit.

A Virtual Photo Session captured the essence of the event, providing visual memories. The conference concluded with a gracious Vote of Thanks from Dr. I. Kasiredy, the Convener of ICSSES 2024, expressing gratitude to all participants and contributors for making the event a success.

## Additional Information:

We have received an overwhelming response with 94 full-length technical papers submitted for review. After thorough scrutiny by the review & editorial team, 35 papers have been accepted for oral presentation. Our publishing partner is Institute of Physics Conference Series (IOP): -Earth & Environmental Science (Scopus Indexed). Alongside, we have been displaying the technical posters (Poster Presentation) of some of the submitted papers, as recommended by the reviewing & editorial team.

# Industrial Visit to 220KV Undi Sub station



Department of Electrical Engineering has organized an industrial visit 220KV Undi Substation for II B.TECH students. 45 students along with 2 faculty members visited the Place.

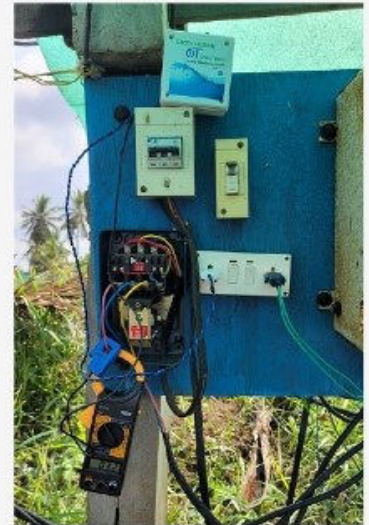
Following sections of the Industry have been visited.

1. 220kV Bus
2. 400kV Bus
3. Auxiliary Substation
4. Battery room
5. Control room

The main objective of this visit was to make our students familiar with the operation and functions of various substation equipments. The team of Engineer received us at the entrance and showed their premises by giving a brief introduction about the substation. We were divided into two groups of students each group was led by TRANSCO officials. We saw different parts of the substation like lightning arrester, Transformer, Isolator, Circuit Breaker etc. Students had a great interactive session of their doubts with working engineers during the visit. The visit came to end by a interactive session conducted by Transco members Mr. G. Srinivasarao, A.E .and Mr. P. Srinivasa rao, A.E for solving the doubts raised by the students.



# MSME Incubator Project



- Rapid Failure Detection
- Automated Updates
- Decreased Human Effort
- Mobile Monitoring

The MSME Incubator of Vishnu Institute of Technology received Funding for Aerator Monitoring System (AMS) Project from MSME which is sanctioned for 10Lakhs.

The details of MSME project are given below

Ref. no: INC23CAP027060

Student Names:

- 1.Prayaga Sita Ratna Shanmukh
- 2.Satya Rishitha Narra
- 3.Chunduri Udaya Kavya Sri
- 4.Palpuri Puja Ramya Sai

Title of Idea- Aerator Monitoring System (AMS)

Mentors:

Dr.V S N NARASIMHA RAJU, Associate Professor of EEE,

Mr.P. NAVEEN, Associate Professor of EEE

# Faculty Development Program



The Department of Electrical and Electronics Engineering at Vishnu Institute of Technology successfully organized a one-week Faculty Development Program on "Navigating the Future with Green Energy Resources, Smart Grid Technologies & Emission-Free Vehicle Infrastructure" (Hybrid Mode) from April 22nd to April 27th, 2024. We received a total of 373 registrations from various esteemed institutions across the country, including NIT Trichy, NIT Warangal, NIT Calicut, and NIT Rourkela. Out of these, 200 participants were shortlisted for the program, with 32 participating in offline sessions.

The program commenced with an inaugural ceremony on April 22nd, 2024, conducted offline, graced by Chief Guest Dr. V. Karthikeyan, Department of Electrical Engineering from NIT Calicut. Distinguished session speakers were invited from top institutes and industries both nationally and internationally. The sessions, conducted both offline and online, witnessed enthusiastic participation from attendees representing various institutes across the nation. The FDP culminated with a grand Valedictory ceremony featuring Chief Guest Dr. B Chitti Babu Ph.D., Associate Professor, PV Research Laboratory, IIIT D&M, Kancheepuram, Tamil Nadu. The event was graced by the presence of Dr. D. Suryanarayana, Director, Dr. M. Venu, Principal, Prof. Srilakshmi, Vice-Principal, and Heads of Departments from various disciplines, and participants from diverse institutions.



# Workshop On Hands-On Training On Applications Of IOT



A week workshop on Hands-on Training on applications of IOT in Engineering - Department of Electrical & Electronics Engineering was successfully held from 28/02/2024 to 05/03/2024. The event aimed to promote interest & motivation in students towards entrepreneurship and startups.

## Presentations and Discussions:

The event featured a series of presentations by students, showcasing their innovative findings and research projects in various subfields of electrical engineering. These presentations were followed by engaging discussions, where attendees had the opportunity to ask questions, seek clarifications, and provide valuable feedback.

## Keynote Speaker:

Renowned expert Prof. V S N Narasimha Raju in the field of IOT, delivered an inspiring keynote address. He shared insights into the latest advancements, challenges, and opportunities in the field, motivating attendees to pursue excellence in their business model canvas.

## Coordinators:

Dr. V S N Narasimha Raju, Assoc. Professor, Dept. of EEE

Mr. P. NAVEEN, Assoc. Professor, Dept. of EEE

Mr. K N S Durga Prakash, Asst. Prof, Dept. of EEE

# Faculty Publications



- Kasireddy, I., Reddy, V.M., Naveen, P., Vardhan, G.H. (2024). Exploring Machine Learning Models for Solar Energy Output Forecasting. In: Pareek, P., Gupta, N., Reis, M.J.C.S. (eds) Cognitive Computing and Cyber Physical Systems. IC4S 2023. Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, vol 536.
- Deenakonda, Mamatha, V V Vijetha Inti, B N Ch V. Chakravarthi, Ch Rajyalakshmi, Y. T. R. Palleswari, A. Siva, and M. Kethan Sai Pranay. "Sustainable Parking Innovations: Enhancing Security with IoT and Facial Image Recognition." In IOP Conference Series: Earth and Environmental Science, vol. 1375, no. 1, p. 012031. IOP Publishing, 2024.
- Korlepara, N S D Prakash, E. B. Elenchezian, and S. Pragaspathy. "An Advanced Integration Strategy for a DSWIG Based WES and DSPVS in a Typical Microgrid Network." In 2024 International Conference on Social and Sustainable Innovations in Technology and Engineering (SASI-ITE), pp. 213-218. IEEE, 2024.
- Korlepara, NSD Prakash, VSN Narasimha Raju, P. V. V. Satyanarayana, V. Sunil Kumar, Y. Jahnavi Priya, and D. Harsha Vardan. "Real-Time Precision Irrigation System for Optimal Crop Yield and Water Conservation." In IOP Conference Series: Earth and Environmental Science, vol. 1375, no. 1, p. 012019. IOP Publishing, 2024.

# Internships

- Ms. N. Pujitha got selected for internship in Cameron Manufacturing India Pvt Ltd-A SLB Company, Coimabatore and trained during the period 09/09/2024 to 25/10/2024.
- Ms. P. Jai Shivani got selected for internship in Saint-Gobain India PVT Ltd, Chennai and trained during the period 15/05/2024 to 15/07/2024.
- Mr. M. Praveen and Ms. U. Aasmitha got selected for internship in Steag Energy and trained during the period 11/03/2024 to 30/09/2024.
- Mr. Hanif Mohammad got selected for internship in Global Marketing Services and trained during the period 23/02/2024 to 23/04/2024.
- Ms. B. Kameswari got selected for internship in iTrending Solutions Pvt ltd, Hyderabad and trained during the period 05/02/2024 to 20/03/2024.
- Ms. T. Mahitha Sai got selected for internship in Power Sense Private Ltd, IIT Hyderabad and trained during the period 19/01/2024 to 19/02/2024.
- Ch. Kavya sri, k. Pravallika, K. Sivani, K. Akshaya, K. Bhavya sri, N. chaitanya Eswari, P. Rishitha Rani, T. Sravani, S. Harika, T. Usha sri, Y. Rajeswari got selected for internship in Digital Instruments and Control Systems, Bangalore and trained during the period 13/12/2023 to 13/01/2024.
- S.T.K.S.G.S.Acharyulu, R. Bonnu Babu, P. Pradeep Varma, P.Ajay, N.Rajeswara chowdary, M. Vijaya Babu got selected for internship in Nokia Solutions Network India Pvt Ltd, Chennai and trained during the period 26/07/2023 to 31/08/2023