KIIT POLYTECHNIC, BHUBANESWAR

RENEWABLE ENERGY & AI

NEWSLETTER OF ELECTRICAL ENGINEERING DEPARTMENT

JULY- DEC 2023

"DREAMS BECOME REALITY FOR THOSE WHO HAVE THE COURAGE TO PURSUE THEM"

DEPARTMENT

Vision

To be a progressive and advanced centre where Electrical engineering students will be provided quality technical knowledge and skill to meet the current and future Electrical engineering challenges, serving the society.

Mission

M1: To impart quality electrical engineering education blended with contemporary and interdisciplinary skills.

M2: To provide enhanced learning facilities and professional collaborations to impart a culture of continuous learning.

M3: To Develop a solid foundation in electrical engineering, fostering adaptability and pursuit of advanced learning.

M4: To involve in trainings and activities on communication skills, teamwork, Professional ethics, environmental protection and sustainable development.

Patrons

- Dr. T. MOHANTY
- Mr. S. K.ROUT
- Dr.P.R.TRIPATHY
- Mr. A. K.BEHERA

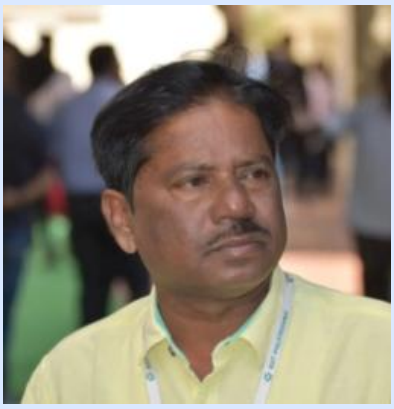
Chief- Editors

- Mrs. S.S.ATTANAIK
- Mr. S.K.BHATTA

MESSAGE FROM THE DESK OF HOD

I congratulate the Electrical Engineering department on the release of their newsletter RENEWABLE ENERGY & AI. Due to unwavering dedication and teamwork, the department has experienced numerous outstanding successes in all areas. Your commitment to excellence has been truly amazing, from conducting ground-breaking research to creating an environment that is stimulating forlearning.

Your successes not only highlight the depth of your knowledge but also the collaborative nature of the department. I have no doubt that this momentum will push your department's understanding and advancement in the areas of renewable energy and artificial intelligence to new heights.



Mr. A. K. BEHERA

[HOD, EE]

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FACULTY ACHIEVEMENTS

1. Dr. P.R.TRIPATHY

- Published a research paper on “Direct Torque Control Based Two Quadrant Analog Torque Controller for Squirrel Cage Induction Motor “in the International Journal of Electric Power Components and Systems.

2. Mr. S.K.BHATT

- Published a research paper on “Novel QO-PFA governed FO-type-II fuzzy controller for LFC of thermo-electric generator based hybrid power system” in the International Journal of e-Prime-Advances in Electrical Engineering, Electronics and Energy
- Published a research paper on "Artificial Intelligence technique governed robust fuzzy controller for micro grid frequency control," 2023 International Conference in Advances in Power, Signal, and Information Technology (APSIT), Bhubaneswar, India, 2023, pp. 236-241, doi: 10.1109/APSIT58554.2023.10201754.

- Published a research paper on, "Introducing Energy Storage System to Solar PV Thermoelectric Generator based Hybrid System," 2023 IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC), Bhubaneswar, India, 2023, pp. 1-4, doi: 10.1109/STPEC59253.2023.10430489.

- Course completed from Udemy-“ Ultimate electrical design and fundamentals.

3. Mr. M.K.BEHERA

- Course completed from Udemy-“Ultimate electrical design and fundamentals.

4. Mrs. K. PARVEEN

- Course completed from Udemy-“Ultimate electrical design and fundamentals.

5. Mr. R.ROSHAN

- Course completed from Udemy-“Ultimate electrical design and fundamentals.

6. Mrs. S. S. PATTANAIK

- Published a research paper on “Optimal power allocation of battery energy storage system (BESS) using dense LSTM in active distribution network” in the International Journal of willey online, energy storage, https://doi.org/10.1002/est2.529

- Published a research paper on, "A Comparative Analysis of KNN and Light GBM Algorithms for Wind Energy Forecasting," 2023 1st International Conference on Circuits, Power and Intelligent Systems (CCPIS), Bhubaneswar, India, 2023, pp. 1-4, doi: 10.1109/CCPIS59145.2023.10291700.

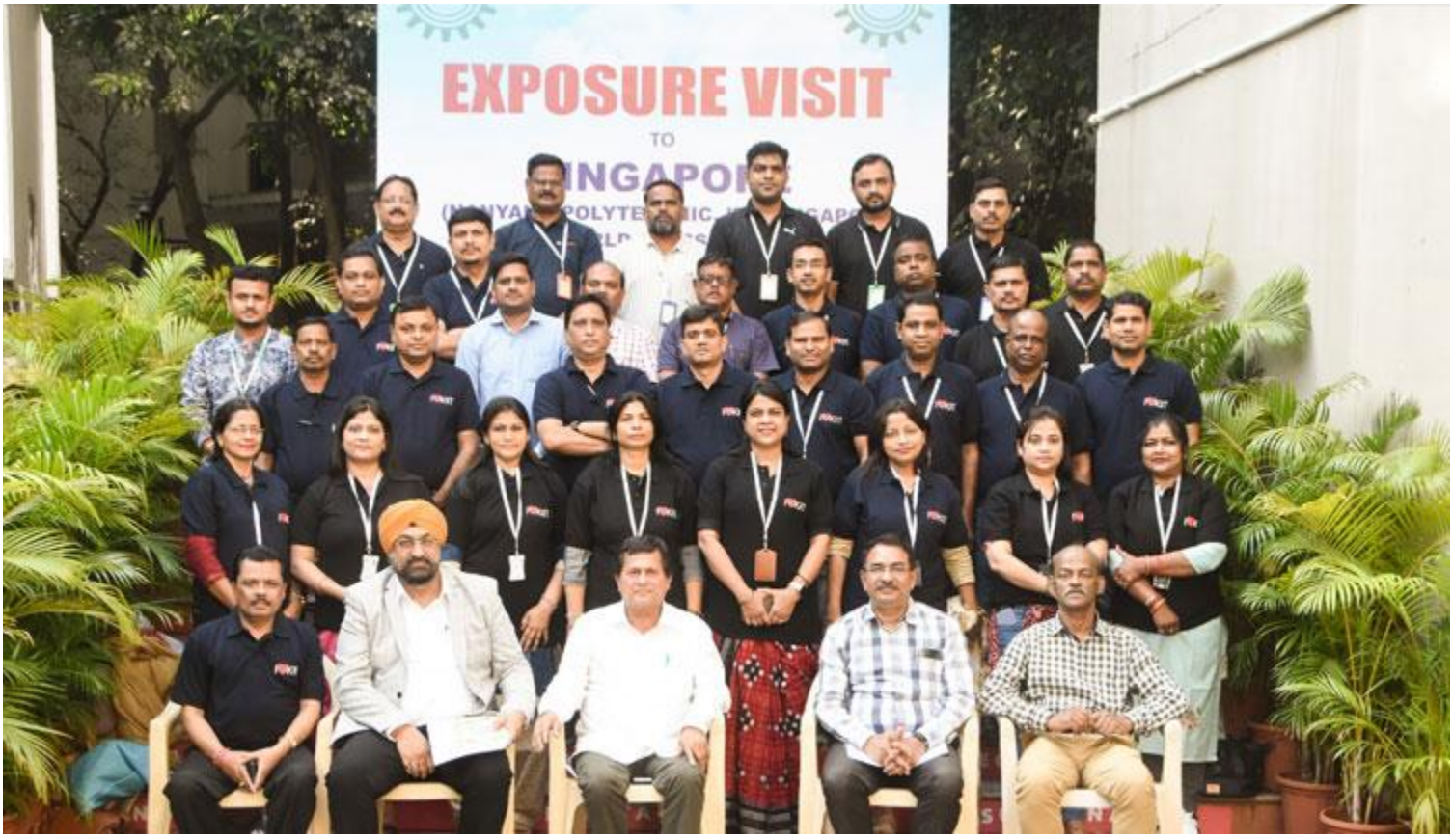
- S. S. Pattanaik, A. K. Sahoo and R. Panda, "Day-ahead profit forecasting of microgrid using LSTM algorithm," 2023 9th International Conference on Electrical Energy Systems (ICEES), Chennai, India, 2023, pp. 80-84, doi: 10.1109/ICEES57979.2023.10110058.

- R. Panda, S. S. Pattanaik, P. K. Tiwari and A. K. Goswami, "Forecasting of Market Power using LSTM in day ahead market," 2023 IEEE International Conference on Power Electronics, Smart Grid, and Renewable Energy (PESGRE), Trivandrum, India, 2023, pp. 1-5, doi: 10.1109/PESGRE58662.2023.10405194.

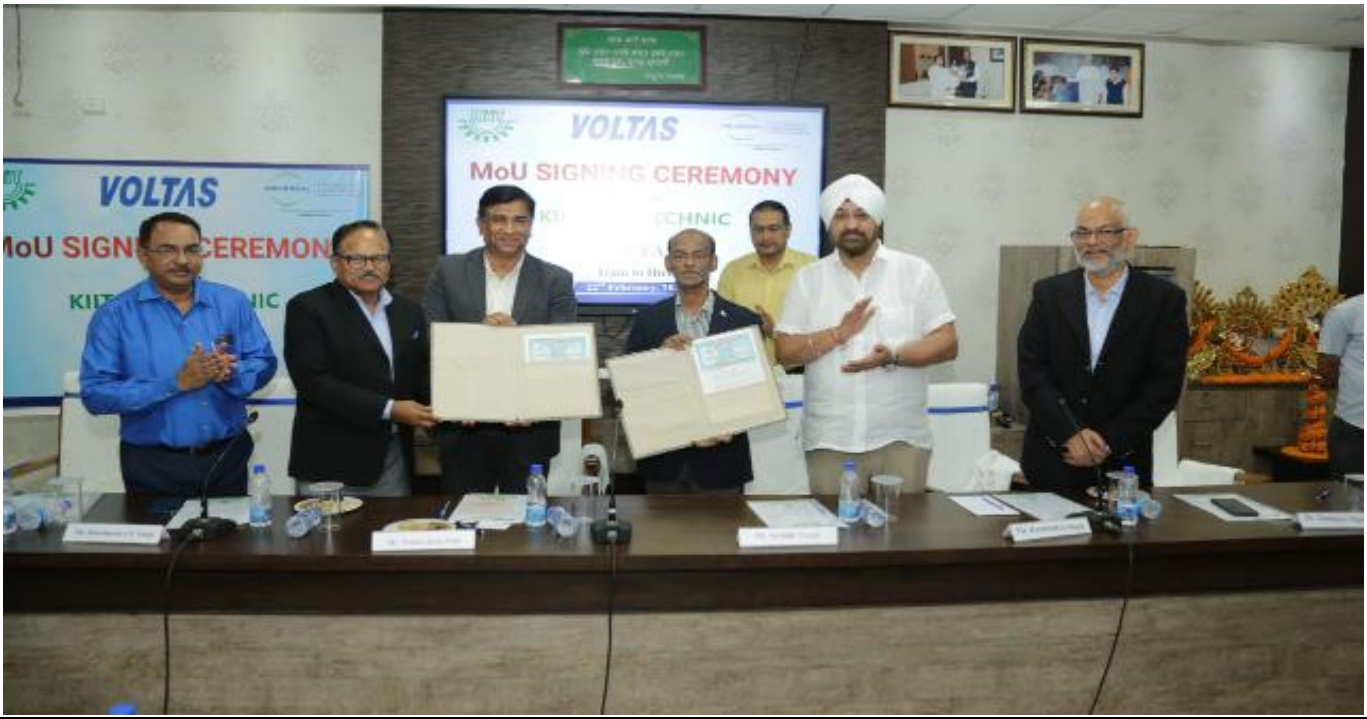
- Course completed from Udemy-“ Ultimate electrical design and fundamentals.

EXPOSURE VSIT

40-Member KIIT Polytechnic Delegation Heads for Singapore KIIT Polytechnic to Be Modeled After Nanyang Polytechnic.



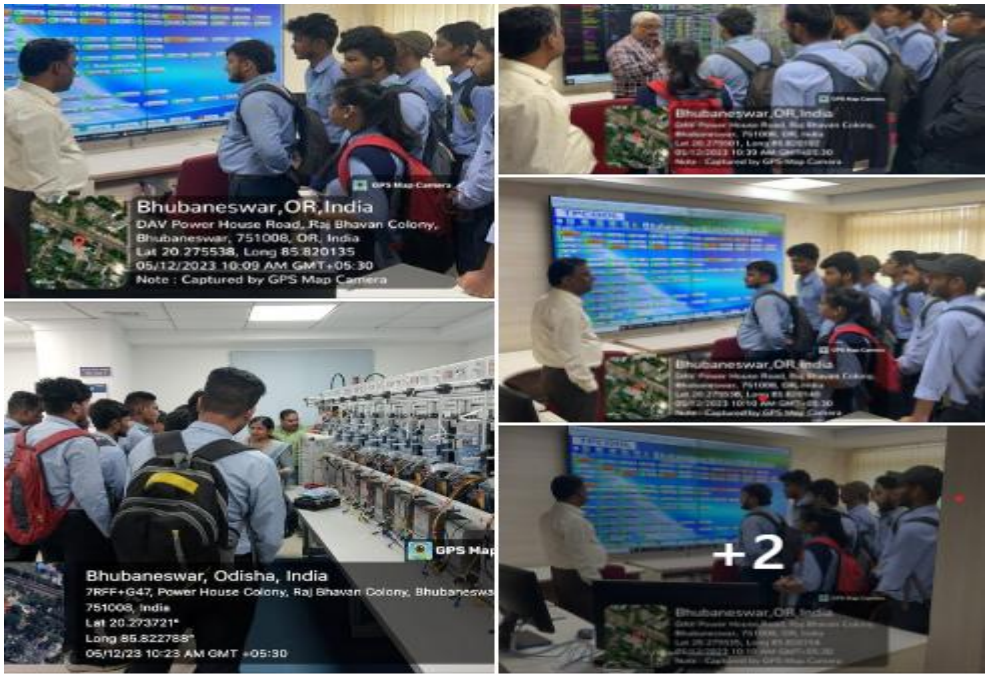
MOU SIGNED WITH VOLTAS

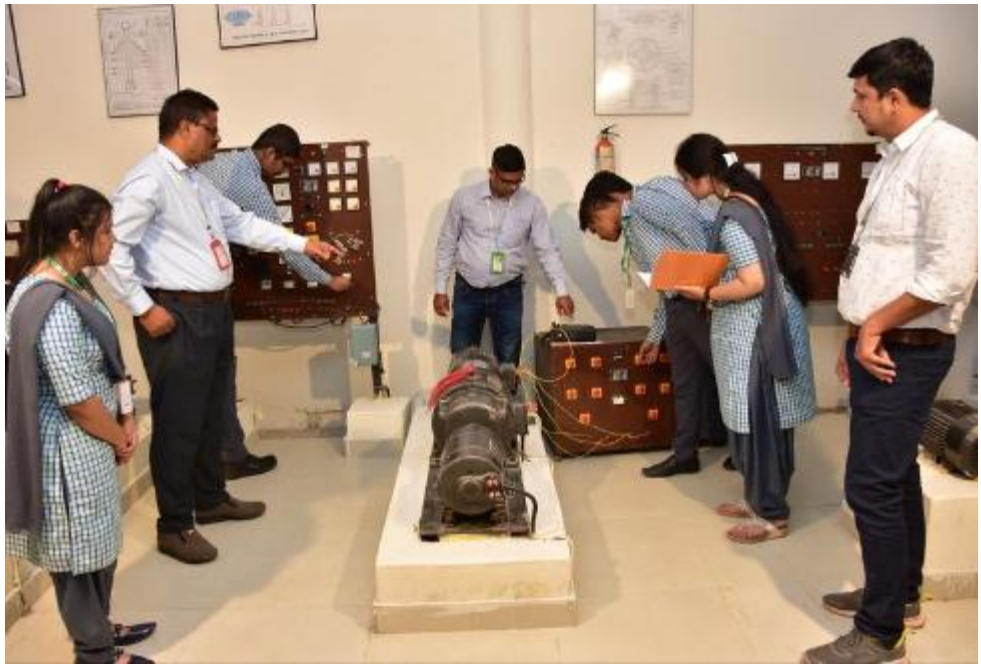


Dr. Saranjit Singh, VC, KIIT-DU praised the entire VOLTAS Group for their efforts and chose KIIT Polytechnic as the first institution to sign such a type of MoU among sixty-four selected institutions in India. Mr. Narendran Nair, CHRO, VOLTAS, in his address, expressed their company's satisfaction with the performance of KIIT Polytechnic alumni selected through previous recruitment drives. Dr. Jnyana Ranjan Mohanty, Registrar wished all success and thanked the VOLTAS team for this kind of initiative undertaken to make the students industry-ready. Dr. Tanmaya Mohanty, Principal briefed about the program genesis and assured support from the institution and the faculties in the wonderful Endeavour made by VOLTAS.

TRAINING PROGRAMME

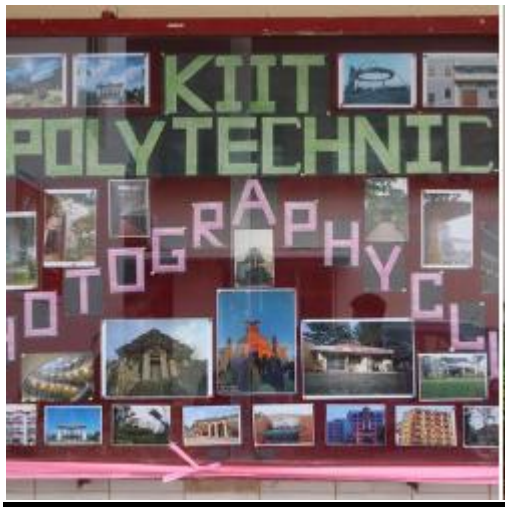
Final year students from KIIT Polytechnic Electrical Branch are participating in a training programme involving field trips as part of TPCODL's "Train to Hire" Scheme.





PHOTOGRAHY CLUB

"KIIT Polytechnic's Photography Club captures the vibrant spirit of our campus, offering students a creative platform to explore and showcase their photography skills.



STUDENT ACHIEVEMENT

Four of our students were successfully placed in TPCODL, demonstrating the strong industry alignment and technical proficiency of our EE Department.

STAR PERFORMERS

3rd YEAR |

PRANIT PBHUYAN

2nd YEAR |

KIRTI BISWAS