



**VISHNU**  
UNIVERSAL LEARNING

# ELECTRICAL & ELECTRONICS ENGINEERING

# NEWS LETTER

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# VISHNU INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi: Affiliated to JNT University, Kakinada.  
Vishnupur, Bhimavaram – 534202 :: West Godavari Dist. A.P.

## Department of Electrical & Electronics Engineering

### **VISION OF THE DEPARTMENT**

To be recognized 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 multi-disciplinary areas.
- To promote ethical and moral values among the students so as to make them emerge as responsible professionals.

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

**PEO.1:** To produce Electrical and Electronics Engineering graduates who have strong foundation in Mathematics, Sciences and Basic Engineering.

**PEO.2:** To provide intensive training in problem solving, laboratory skills and design skills to use modern engineering tools through higher education and research.

**PEO.3:** Ability to pursue higher studies and to seek employment in a variety of engineering technology positions and work successfully in their chosen career aspirations and generate entrepreneurs

**PEO.4:** 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.



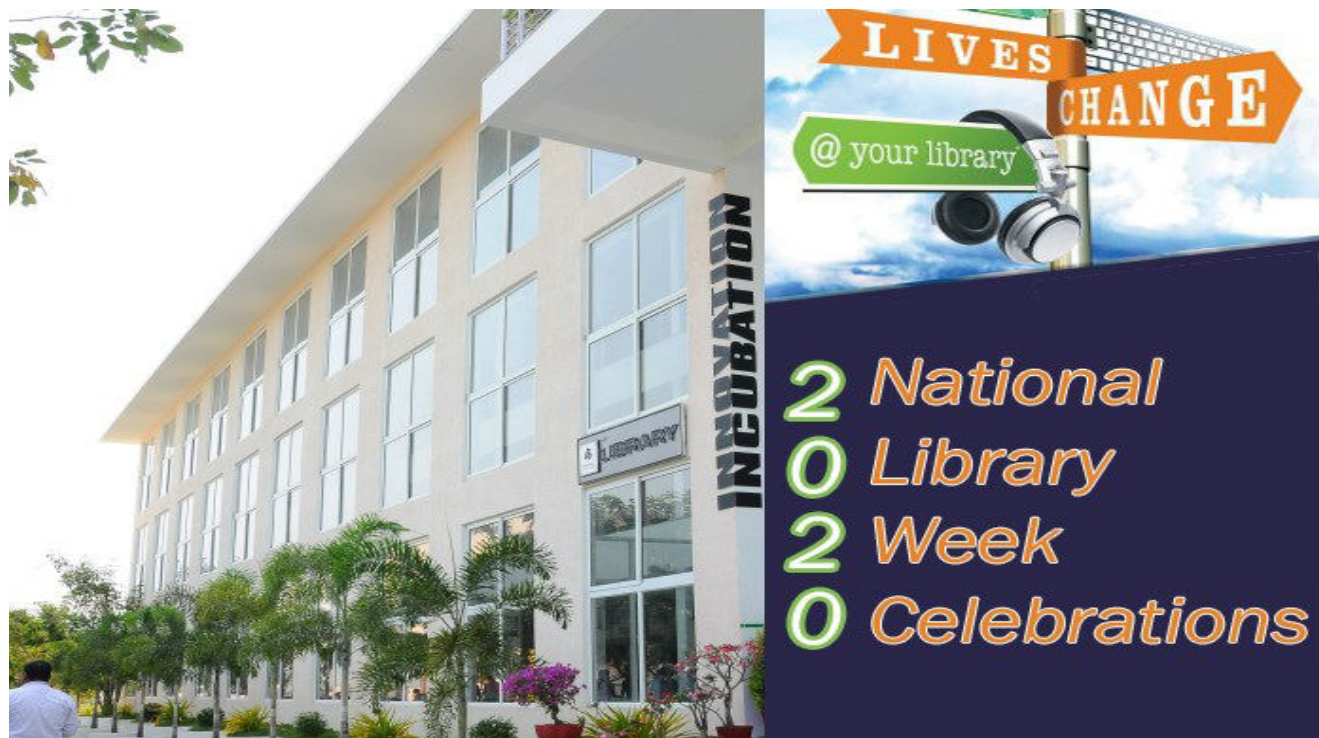
# Illuminations

## E-SUMMIT 2021

Mr. Kesireddy Bharghav, IV EEE and Mr. Sai TejaGrandhi, IV ECE has WON I PRIZE in Innovation Expo for their Rescue Drone project in E-Summit'21 held at IIT Bhubaneswar during 26th - 29th March 2021 online.

E-Summit is a three day event, started as an initiative of the Entrepreneurship Cell of IIT Bhubaneswar with the theme Reign of Resilience. Our students has participated in Innovation Expo which is an event that focuses on boosting innovative entrepreneurship and allows participants to showcase their project/idea. Our students competed in 2 rounds. In Round-1, our team has submitted a graphical abstract of the innovation and qualified. Round-2 is held online with our graphical abstract and a Table-top plant to the judges in Round-2. Overall, 1.2K participants registered in this E-Summit-21 in various events from different institutes like IIT Delhi, IIT Bhubaneswar, Symbiosis- Noida, GHRCE Nagapur and etc.

# NATIONAL LIBRARY WEEK CELEBRATIONS - 2020



Vishnu Institute of Technology celebrated the National Library Week from 16th to 21st November, 2020. Indian Library Association declared that November 14th to 20th should be observed as the National Library Week all over India. The Celebrations can be traced to a practice initiated by Shri Iyyanki Venkata Ramanayya, recognized as the "Architect of Public Library Movement in India". Keeping in tune with this tradition, Vishnu Institute of Technology celebrated the National Library Week drawing the attention of several students. Dr. D. Suryanarayana (Director & Principal) inaugurated the Library Week Celebrations. In his inaugural address which was streamed live on Micro Soft Teams and youtube, he reiterated that optimum utilization of library resources should be strengthened indelibly in the mind-sets of academic communities in order to ensure their holistic professional and personal development. Literary events like E-Quiz, Ideas and innovation Contest, Essay Writing, Pitching and Virtual Presentation competition were held. Students from all disciplines participated with zeal and enthusiasm. The week long celebrations ended with a valedictory function on 21st November, 2020.

# Student Participation



- Sathya Sai Kumar Sarvasuddi , V Sai Keerthana , Sirigineedi Naga Sivaji had participated in IEEE 2021 with the project E-Farm Market on November 2020 through online.
- V Sai Keerthana , S Sai Kumar , S Naga Sivaji , Shaik Ameer Basha had participated in Chhatra Vishwakarma Awards-2020 at AICTE-New Delhi with the project Smart Water Management System on 16.02.2021.
- Bhogaraju Divya Dhatri , Devani J N S Pavan Kumari ,Godavarthi Sai Anirudh , Isukapati Vivek had participated in APSSDC, Andhra Pradesh on Deep dive uipath with real time cases on 25-29 Jan 2021.
- Kesireddy Bhargav got first prize in Innovation Expo E-Summit'21 at IIT Bhubaneswar (online) on the project Rescue Drone Project on 26 -29 March 2021 .

# Publications

- Jnaneswar, K., Mallikarjuna, B., Devaraj, S. et al. A real-time DWT and traveling waves-based multi-functional scheme for transmission line protection reinforcement. *Electr Eng* 103, 965–981 (2021).
- "Synchrophasor Sensors Assisted Novel Algorithm for Power System Protection Reinforcement and Health Monitoring," in *IEEE Sensors Journal*, vol. 20, no. 15, pp. 8213–8222, 1 Aug.1, 2020, doi: 10.1109/JSEN.2020.2986087.
- Balimidi Mallikarjuna; Rishabh Devagupta; Maddikara Jaya Bharata Reddy; Dusmanta Kumar Mohanta, S. Saravanan, K. Karunanithi and S. Pragaspathy, A Novel Topology for Bidirectional Converter with High Buck Boost Gain, *Journal of Circuits, Systems and Computers*, Vol. 29, No. 14, 2050222 (2020).
- Madaboina Ramesh; Balimidi Mallikarjuna; T. Rajasekar, A Novel Investigation on Single-Input Three-Output DC-DC Buck Converter For Electrical Vehicles," 2021 7th International Conference on Electrical Energy Systems (ICEES), 2021, pp.
- S. Pragaspathy, Ch. Phani Kumar, V.S.N. Narasimha Raju, Kalyan Sagar Kadali, S. Saravanan, A high gain multi-port bidirectional converter with reduced voltage stress, *Materials Today: Proceedings*, 2021.
- S. Menaga, J. Paruvathavardhini, S. Pragaspathy, R. Dhanapal, D. Jebakumar Immanuel, An efficient biometric based authenticated geographic opportunistic routing for IoT applications using secure wireless sensor network, *Materials Today: Proceedings*, 2021.

- Kumar, D.G., Ganesh, A., Bhoopal, N., Saravanan, S., Prameela, M., Dsnmrao, Kasireddy, I. (2021). Evolutionary algorithms for real time engineering problems: A comprehensive review. *Ingénierie des Systèmes d'Information*, Vol. 26, No. 2, pp. 179-190. \
- Ch. Phani Kumar; S. Pragaspathy; V. Karthikeyan; K. N. S. Durga Prakash, Power Quality Improvement for a Hybrid Renewable Farm Using UPQC, *International Conference on Artificial Intelligence and Smart Systems (ICAIS)*, 25-27 March 2021.
- B.N. Ch.V. Chakravarthi; P. Naveen; S. Pragaspathy; V S N Narasimha Raju, Performance of Induction Motor with hybrid Multi level inverter for Electric vehicles, *International Conference on Artificial Intelligence and Smart Systems (ICAIS)*, 25-27 March 2021.
- Saravanan S., Kalaiyarasi M., Karunanithi K., Karthi S., Pragaspathy S., Kadali K.S. (2022) IoT Based Healthcare System for Patient Monitoring. In: Nayak P., Pal S., Peng SL. (eds) *IoT and Analytics for Sensor Networks. Lecture Notes in Networks and Systems*, vol 244. Springer, Singapore.
- Ramu Bhukya, KalyanSagar Kadali, Asapu Siva, Y T R Palleswari, Pragaspathyand S Saravanan, Experimental Validation with FPGA Controller to A Switched-Capacitor Interleaved Bidirectional DC-DC Converter for A Renewable Energy Storage Systems, *Journal of Physics: Conference Series*, 2021.
- Nilesh, Idamakanti Kasireddy, Design of PID controller using strawberry algorithm for load frequency control of multi-area interconnected power system with and without non-linearity, *EPREC 2021*.(Accepted)
- I V.Vijetha,,D.Mamatha, Analysis of 3-Phase DC Power Converter for Fuel cell, *International Conference on Communication and Electronic systems*, 2021.(Accepted)

# Placements



COMPANY	NO. OF STUDENTS PLACED
Accenture	12
ALCHEMY TECHSOL INDIA PVT.LTD.	01
ATOS SYNTEL	01
HCL	01
LandysGyr	01
Latent View	01
Ngage Technovations LLP	01