



School of Electrical Engineering (SELECT)

VISION

To offer an education in electrical engineering that provides strong fundamental knowledge, skills for employability, cross-disciplinary research and creates leaders who provide technological solutions to societal and industry problems.



MISSION

- Provide personalized experiential learning in industry sponsored labs to prepare students in electrical engineering with strong critical thinking and employability skills.
- Foster design thinking, creativity and cross-disciplinary research with highly qualified faculty to create innovators and entrepreneurs in the broad area of electrical engineering.
- Collaborate with national and international partners to provide innovative solutions to societal and industry challenges.



(151-200) QS World and (7-10) India University Ranking by Subject Electrical and Electronics Engineering

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DEAN'S MESSAGE



Dr. Kowsalya M
Professor and Dean/ SELECT

Since its inception in 2009, the School of Electrical Engineering has carved a path of distinction and innovation. From humble beginnings, we have grown into a nationally and globally recognized institution with our Electrical and Electronics Engineering (EEE) program now ranked among the top 10 in India by QS, and globally placed in the 151–200 band in 2025, marking a leap of over 50 positions in recent years.

Our journey is anchored in academic rigor, industry relevance, and an unrelenting pursuit of excellence. Both our flagship programs EEE and Electronics and Instrumentation Engineering (EIE), have been awarded the prestigious NBA accreditation for six years (2025-2031), a testament to the quality, impact, and vision embedded in our curriculum and pedagogy.

Our infrastructure reflects our ambition: 15 academic laboratories, 4 industry-sponsored labs, and 5 advanced research labs form the backbone of our hands-on, future-ready education. The Adaptive Curriculum for Excellence (ACE) is constantly refreshed with valuable insights from leading academic and industry partners to ensure our students are always ahead of the curve.

We believe in nurturing more than just engineers we shape innovators and leaders. Over 80% of our students take up multiple Value-Added Programs, acquiring next-generation skills that set them apart in the global job market. An industry-sponsored hackathon recently challenged our students to tackle real-world problems with creativity and technical prowess.

At the heart of our academic ecosystem lies a dedicated, dynamic faculty. In just nine months from January to September 2025 our faculty members have published **61** journal papers, and **4** research scholars have successfully completed their oral examinations. Alongside this, we have conducted numerous Faculty Development Programs, hands-on workshops, and industrial connectivity to embrace emerging pedagogical trends in the teaching and learning process.

Our story is one of passion, progress, and purpose. We invite you to be a part of this journey to follow our achievements, engage with our community, and witness the legacy we are building. Stay connected with us through our official social media channels listed at the end of this message.



SCAN HERE
For more Details about SELECT

VIT ACHIEVEMENT

VIT - a prominent institution in India for sustainability

The QS released the 4th edition of “World University Rankings: Sustainability 2026’ yesterday. Vellore Institute of Technology (VIT) ranked 352nd out of 1994 institutions ranked globally. In India, VIT is the 7th best institution in sustainability. VIT rank moved 44 positions up globally as compared to last year.

VIT is one of the top 400 Universities of the world in sustainability. QS Sustainability ranking is based on three major parameters – environmental impact, social impact and governance.



VIT ACHIEVEMENT



PRIDE OF NATION AWARDS 2025 - National Excellence Honour by Veterans India. This award is conferred for excellence in nationalism, patriotism, and nation-building beyond academic activities. This prestigious recognition is a testament to our collective efforts, commitment, and dedication towards nation-building and social responsibility. The award was received by Dr. T. Jayabarathi , Registrar, on Vijay Diwas, 16 December 2025 at NDMC Convention Centre, New Delhi.

STUDENT'S ACHEIVEMENT



Best Delegation Award at SRM MUN 2025, held at SRM Institute of Science and Technology, Chennai, from 31st October to 2nd November 2025. Awards List – SRM MUN 2025:

1. Best Delegation: VIT MUN Society
2. United Nations Security Council (UNSC) Honourable Mention: Vansh Kalantri (22BEE0262)
3. United Nations General Assembly (UNGA) High Commendation: Aman Deo (23BEL0027)
Verbal Mention: Sairam Dhal (24BEE0102)



Prakul K Hebbur 24BEL0040 qualified as a finalist in H7CTF 2.0 conducted on 8th and 9th November 2025 held at SRM Institute of Science and Technology (SRMIST), Kattankulathur, Chennai.



Yash Choudhary (22BEE0184), Saumya Mittal (22BEE0182), Eapen Andrews (22BEE0359), Aswin Nandagopan (23BEE0061), Navya P K (22BEE0144), part of Formula Hybrid team, Team Uttejtit, secured

1. 1st Place – Business Plan Presentation,
2. 1st Place – Innovation,
3. 2nd Place – Engineering Design Report in Formula Imperial 2025, held at Jansons Institute of Technology, Coimbatore from 30th October to 3rd November 2025.

STUDENT'S ACHEIVEMENT



Presented their research paper titled “Application of Combined GWO-HHO Techniques for Minimization of Energy Consumption Cost in Home Energy Management System” at the IEEE Region10 TENCON 2025 Conference, held between 27th–28th October 2025 in Kota Kinabalu, Malaysia. The paper was authored by Avni Bagga (22BEI0085) and Shreya Ranjan(22BEI0084), under the valuable guidance of Dr. Prabhakar Kartikeyan, from the School of Electrical Engineering (SELECT).



Hannah Ajish
23BEE0071



Rachneet Kaur
23BEE0099

Presented their paper in International Conference on Green Industrial Electronics and Sustainable Technologies (GIEST 2025) held on NIT Jamshedpur 11th, 12th and 13th of October, 2025 titled Paper Titled Comparative Analysis of CNN, LSTM, TCN and GRU for Predicting Li-ion Battery Capacity.



ARUN JOSE 22PHD0433



AYUSH MITRA 22BEI0034

SOURAY SATYAJEET 22BEI0036

HARSHITA SHAHDEO 22BEI0039

ATHUL A AUGUSTINE 22BEI0047

ARUN KARTHIKEYAN S 23BEE0066

ABINOW 24BEE0198

VIGNESHWARAN K 24MAC0013

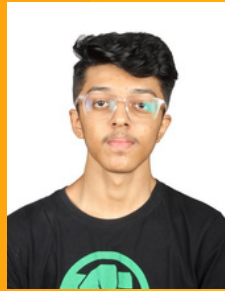
ARKAPRAVA SAMANTA 25BEE0168

PRAJIN S 25BEI0037



The following students have participated in two-day hands-on drone workshop in association with Aero Knotz Drones India Pvt. Ltd., Chennai, and the Centre of Excellence (CoE) in Drone Technology, School of Electrical Engineering, VIT University, Vellore., held on October 28th and 29th, 2025

STUDENT'S ACHEIVEMENT



Tarafdar Vivaan
Debabrata
23BEE0070



Shivam
Bhuvaneshwar
Pasi
22BEI0102

Team Orcus from the RoboVITics Club emerged as Champions in the 60 kg Category at IIT Bombay Techfest RoboWars 2025, held from 22nd to 24th December 2025.



Sanket Maniyar (Reg. No: 23BEL0006) from the VIT Model United Nations Society brought laurels to VIT by securing the Best Delegate Award – Lok Sabha at TechFest WorldMUN 2025, held from 23rd to 24th December 2025 at the Indian Institute of Technology (IIT), Bombay.

STUDENT'S ACHEIVEMENT

Fresher's Tournament of 2025

| S.No | Name | Reg. No | Event name | Date | Position | Details |
|------|-----------------------------|-----------|------------------------------|-------------|------------|-----------------------------|
| 1 | DHRITI SHRINE | 25BEE0098 | Fresher'sTourn ament 2025 | 29/11/20... | Winner | Table Tennis - Winner |
| 2 | BUDHIA TANISHA SHARAD | 25BEL0037 | Fresher'sTourn ament 2025 | 29/11/20... | Runners Up | Throwball Runners -UP |
| 3 | NAINIKA KARTHIK | 25BEE0104 | Fresher'sTourn ament 2025 | 29/11/20... | Runners Up | Throwball Runners -UP |
| 4 | KALAIYARASAN M | 25BEE0152 | Fresher'sTourn ament 2025 | 30/11/20... | Winners | Hockey- Winners |
| 5 | ROGITH R | 25BEE0149 | Fresher'sTourn ament 2025 | 30/11/20... | Winners | Hockey- Winners |
| 6 | DEEPAK G | 25BEE0151 | Fresher'sTourn ament 2025 | 30/11/20... | Winners | Hockey- Winners |
| 7 | MOHIT SUTHAR | 25BEE0111 | Fresher'sTourn ament 2025 | 30/11/20... | Runners Up | Table Tennis - Runner UP |

National Sports Day-VIT Vellore

| Name | Reg.No | Event Name | Date | Position | Details |
|--------------------|-----------|------------------------|------------|------------|-------------------------|
| JEYANTHAN K | 24BEE0007 | National Sports Day | 31.082.025 | Runners Up | Handball- Runners UP |
| SANJITH S NAIR | 24BEE0023 | National Sports Day | 31.082.025 | Runners Up | Handball- Runners UP |
| HAMSAVARTH AN H | 24BEE0191 | National Sports Day | 31.082.025 | Runners Up | Handball- Runners UP |
| GOKUL Y | 24BEE0052 | National Sports Day | 31.082.025 | Runners Up | Handball- Runners UP |

HIGHER STUDIES



Ms.ADYA BHALLA(21BEE0035) has been admitted to the Masters in Embedded Electronics Engineering at LUND UNIVERSITY, SWEDEN ranked among the top 100 global Institutes.

About Lund University: It is ranked 72nd in the QS World University Rankings 2026. In the QS World University Rankings: Sustainability 2026, it is ranked first in the world.



Mr.PRATYAY DUTTA (20BEE0363) has been admitted in M.Teh. Electrical Engineering in IIT Bombay.

About IIT Bombay: In the QS World University Rankings 2026, IIT Bombay is ranked 129th globally and is the second-highest-ranked institution in India. In specific subject areas, it holds the 28th position globally in the Engineering & Technology category according to the QS World University Rankings by Subject 2025.



Mr KARTIK RAJ GUPTA (21BEE0369) has joined the M.Sc Program in Biomedical Engineering at Johns Hopkins University, United States of America.

About Johns Hopkins University: In the QS world university rankings 2025 and 2026, it is ranked 24th globally.



20BEE0001- Siddharth Suresh has successfully completed his MSc in Robotics from the University of Bristol, United Kingdom, and has secured a Distinction .

STARS ALUMNI ABROAD



Mr.L.THANIGESWARAN, an alumnus of B.Tech. Electrical and Electronics Engineering (2009-2013) is currently in IN3 GROUP, Senior Consultant, Germany. Mr. L. THANIGESWARAN, is a proud STARS VITian whose journey is marked by dedication and passion.



Mr.D.VIGNESH an alumnus of B.Tech. Electrical and Electronics Engineering (2009-2013) is currently in Algihaz Contracting Ltd, Site Engineer, Saudi Arabia, Mr.D.VIGNESH is a proud STARS VITian whose journey is marked by dedication and passion.



R. PRASATH
B.TECH EIE-2010
BATCH Wipro, Test
Lead, Australia



J. ATCHAYALINGAN
B.TECH EIE-2011
BATCH RABO BANK,
Data Analyst, Europe.



TM.PRADEEPKUMAR
B.TECH EIE-2009 BATCH
Upstart Networks Inc,
Software Engineer, USA

RESEARCH SCHOLAR ACHIEVEMENTS



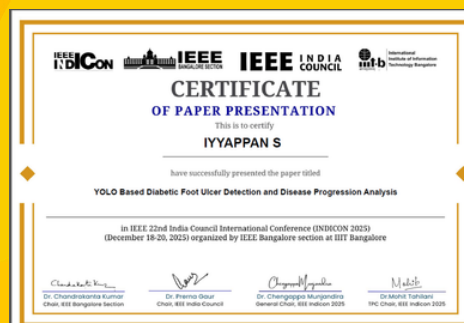
Mrs. Sharmila Devakumar (22PHD0686) attended and presented her research work at the 22nd edition of IEEE INDICON 2025, held from 18th to 20th December 2025 at the International Institute of Information Technology (IIIT-B), Bangalore. Her participation contributed to the dissemination of research in deep reinforcement learning and transient stability assessment using synchrophasor data.



Mr. Iyyappan S (22PHD0236) attended and presented her research work at the 22nd edition of IEEE INDICON 2025, held from 18th to 20th December 2025 at the International Institute of Information Technology (IIIT-B), Bangalore. Her participation contributed to the dissemination of research in deep reinforcement learning and transient stability assessment using synchrophasor data.



Ms. Nandhini M (22PHD0663) attended and presented a paper titled 'Conducted EMI Reduction in High-Gain SiC-Based DC-DC Converter Using Chaos-Controlled Switching' at the 12th National Power Electronics Conference (NPEC 2025), held from 14 December 2025 to 16 December 2025 at the National Institute of Technology, Calicut, Kerala.



RESEARCH SCHOLAR ACHIEVEMENTS



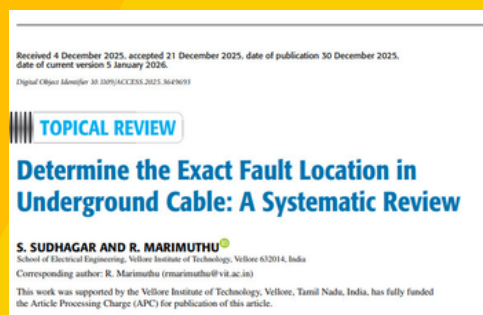
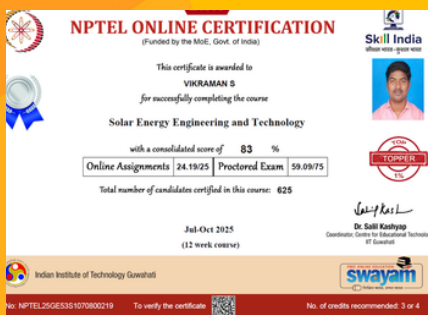
Vikraman S (24PHD0380) has secured Topper position and has been awarded the Elite Silver Medal in the NPTEL July–October 2025 Examination for the course “Solar Energy Engineering and Technology”, with a consolidated score of 83% among 625 certified candidates.



Sudhagar S (Register No: 24PHD0613) from SELECT, has published a paper titled ‘Determine the Exact Fault Location in Underground Cable: A Systematic Review,’ published in IEEE Access (Impact Factor: 3.6)



Sakthivel K (23PHD0305) attended and presented a paper titled ‘Enhancement of Power Quality in a cascaded multilevel inverter utilizing an ANN controller for electric vehicle applications’ at the 12th National Power Electronics Conference (NPEC 2025), held from 14 December 2025 to 16 December 2025 at the National Institute of Technology, Calicut, Kerala.



October 2025

1. Tatipatri, Naveen, and S. L. Arun. "A privacy-preserving based cyber security for communication attacks in active power distribution networks." *International Journal of Electrical Power & Energy Systems*, Impact Factor: 5
2. Sugumaran, G. Amutha Prabha N "A modularized active cell balancing of lithium-ion battery packs using buck-boost converter for electric vehicle applications." *Computers and Electrical Engineering* Impact, Factor: 4.9
3. Ponnambalam, Rajkumar, and Indragandhi Vairavasundaram. "GaN-Based DC-DC Converters for EV Fast Charging: A Review of Wide Bandgap Devices Technology." *Results in Engineering*, Impact Factor: 7.9


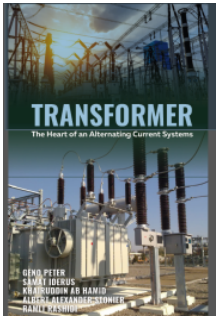
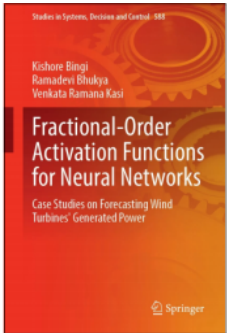
November 2025

1. Oberoi, Vansh, Mukul Chankaya ,Mrutunjaya Panda , "Novel Knowledge Propagation Optimization (KPO) Algorithm for Grid-tied PV System." *Results in Engineering*, Impact Factor:7.9
2. Lal, M. Dhinu, and Ramesh Varadarajan. "Ensemble deep learning framework with wrapper-based feature selection and sequential encoders for PMU-based event classification." *Energy Reports* 14 (2025): 4353-4369. Impact Factor:5.1
3. Nair, Rishika, and G. Velvizhi. "Tailored g-C₃N₄/TiO₂ photocatalysts for enhanced CO₂-to-methanol conversion via RSM optimization." *Materials Science and Engineering*, Impact Factor:4.6
4. Nachimuthu, Selvarani, Alsaif, F.; Devarajan, G, Indragandhi Vairavasundaram "Real time SOC estimation for Li-ion batteries in Electric vehicles using UKBF with online parameter identification." *Scientific Reports* 15.1 (2025): 1714. Impact Factor:3.9
5. Subramanian, N.; Stonier, Albert Alexander,., "A Comprehensive Review on Recent Advances in Insulation Materials and Pressboard Technologies for Power Transformers" *IEEE Transactions on Dielectrics and Electrical Insulation*, DOI: 10.1109/TDEI.2025.3635099, (2025), Impact Factor: 3.1
6. Paulraj, T., and Yeddula Pedda Obulesu. "Optimization of torque performance in SynRM with strategic placement of NdFeB permanent magnets and novel flux barrier shape." *Engineering Research Express* 7.4 (2025): 045346. Impact Factor:1.6
7. Pratap, S.; Das, Rashmi Ranjan,.; Thomas, S.B.; Sona, D.R.; Akash, K., "Coinmeter: a real-time digital asset analysis platform for data-driven investment decisions utilizing advanced visualization technologies." *International Journal of System Assurance Engineering and Management* (2025): 1-18. . Impact Factor:1.4
8. Harish, S., and P. Uma Sathyakam. "Dunn's method for distinguishing charge storage mechanisms in supercapacitors: a status quo review." *Journal of Electronic Materials* (2025): 1-15. Impact Factor:2.5

December 2025

1. Ashokkumar, A., and N. Amutha Prabha. "Energy management strategy for photovoltaic, fuel cell, battery, and super capacitor in standalone direct current microgrid system." *Journal of Energy Storage* 144 (2026): 119600. Impact Factor:9.8
2. Gutta, Akash, A.; Sridhar, S.; M.; Y.A.; Dhanamjayulu, C.; Arunkumar, G.; Kamwa, I., "A Security-Centric SCADA Framework for Wind Energy Systems Using Enhanced Network Segmentation and Rogue Traffic Visualization." *Results in Engineering* (2025): 108535, . Impact Factor:7.9
3. Prasad, Paneti Anjaneya Vara, and C. Dhanamjayulu. "Design and Implementation of a Novel 31-Level MLI Topology for PV System Applications with Improved Performance." *Results in Engineering* (2025): 108650. Impact Factor:7.9
4. Harish, S., V. Sofiya, and P. Uma Sathyakam. "Thermal management of a lithium-ion battery pack: simulation-based evaluation of various phase change materials." *Thermal Science and Engineering Progress* (2025): 104362. Impact Factor:5.4
5. Arun, Vijayakumar, Stonier, Albert Alexander, Peter, Geno, Iderus, Samat Bin,. "A quadratic voltage boost switched capacitor inverter (QVBSCI) with single voltage source." *Computers and Electrical Engineering* 130 (2026): 110856. Impact Factor:4.9
6. Singh, Sonali, A Sachan, S Kamal, J Kumar Goyal, S Purwar. "Predefined time quantised control for nonlinear systems: a backstepping approach." *International Journal of Systems Science* (2025): 1-13. . Impact Factor:4.6
7. .Kumar, N. Rajesh, S Indragandhi Vairavasundaram, G Manikandan, L Ravi "An IoT based remote medical diagnosis system using one time pad cipher over MQTT protocol." *Scientific Reports* 15.1 (2025): 42117. Impact Factor:3.9
8. Vaishali, K., and D. Rama Prabha. "Economic and reliability assessment of intermediate charging ports for EV stations." *Scientific Reports* 15.1 (2025): 42380. Impact Factor:3.9
9. Sambhavi, Y. Vijaya, and R. Vijayapriya. "Modified Field-Oriented Control Scheme for a 5-Level Knight Inverter in PMSM-Based Electric Vehicle Applications." *IEEE Access* 13 (2025): 199846-199863. Impact Factor:3.6
10. Lakshmi, K. Vijaya, and M. Manimozhi. "Implementation of DDPG based Reinforcement Learning Control for Self-balancing Motorcycle." *IEEE Access* (2024). Impact Factor:3.6
11. Parthiban, R., and P. Ponnambalam. "Performance Improvement of a Combined Hybrid Energy System Using Photovoltaic and Thermoelectric Generators Based on the hCOSS-MPPT Algorithm." *Journal of Electrical Engineering & Technology* (2025): 1-16. Impact Factor:1.6

BOOKS PUBLISHED

| <u>S.No.</u> | Name of the Book | Book front page |
|--------------|--|---|
| 1 | <p><u>மின் பரிமாற்றம் மற்றும் பகிர்மானம் All Chapter Tamil Translation Sudhir Sharma (English), S. Meikandasivam (Tamil)</u></p> |  |
| 2 | <p>Transformers <i>Transformers - The Heart of an Alternating Current System</i> Geno Peter, Samat Iderus, Khairuddin Ab Hamid, Albert Alexander S, Ramli Rashidi</p> |  |
| 3 | <p>Fractional-Order Activation Functions for Neural Networks <i>Case Studies on Forecasting Wind Turbines Generated Power</i> Kishore Bingi, Ramadevi Bhukya, Venkata Ramana Kasi</p> |  |

APPROVED FUNDED PROJECTS & CONSULTANCY PROJECTS


VIT
 Vellore Institute of Technology
Approved by the Government under section 7 of VIT Act, 2002

Sponsored Research and Industrial Consultancy (SpoRIC)

Congratulations!

To Our Esteemed Professors

Dr. Kathirvelan J
School of Electronics Engineering (SENSE)

Dr. Sharmila A
School of Electrical Engineering (SELECT)


PI: Dr. Kathirvelan J
SENSE


Co. PI: Dr. Sharmila A
SELECT

For their achievement in securing Sponsored Research Grant from Ministry of Mines (MoM), Govt. of India

Sanctioned Amount: 52.05 Lakhs

Project Title: Advanced AI System for Efficient Aluminium Scrap Sorting: Computer vision, deep learning ensemble, and robotics for sorting by colour, texture, and shape


VIT
 Vellore Institute of Technology
Approved by the Government under section 7 of VIT Act, 2002

Sponsored Research and Industrial Consultancy (SpoRIC)

Congratulations!

To Our Esteemed Professors

Dr. George Priya Doss, School of Bio Sciences and Technology (SBST)
Dr. Ramkumar T, School of Computer Science Engineering and Information Systems (SCORE)
Dr. Surendar M, Centre for Disaster Mitigation and Management (CDMM)
Dr. Biji C L, School of Computer Science and Engineering (SCOPE)
Dr. Monica Subashini M, School of Electrical Engineering (SELECT)
Dr. Sasi Kumar K, School of Electronics Engineering (SENSE)


Dr. George Priya Doss


Dr. Ramkumar T


Dr. Surendar M


Dr. Biji C L


Dr. Monica Subashini M


Dr. Sasi Kumar K

For their achievement in securing Sponsored Research Grant from ICMR

Sanctioned Amount: 1.43 Crores

Project Title: Climate change and Brain infections in INDIA - A multi-centre, multidisciplinary collaborative study on the impact of Climate change on brain infections (CLIMB-INDIA)


VIT
 Vellore Institute of Technology
Approved by the Government under section 7 of VIT Act, 2002

Sponsored Research and Industrial Consultancy (SpoRIC)

Congratulations

To our esteemed Professors from the School of Electrical Engineering (SELECT) for securing a **Consultancy Project** from M/s Gerdí Gutperle Agasthiyar Muni Child Care Centre, Kanyakumari, Tamilnadu


Consultant : Dr. Jacob Rajend I


Co-Consultants : Dr. Palanisamy K


Dr. Belwin Edward J

Title of the Project: Energy Audit
Sanctioned Amount: 1.73 Lakhs and Project Duration: 6 Months


VIT
 Vellore Institute of Technology
Approved by the Government under section 7 of VIT Act, 2002

Sponsored Research and Industrial Consultancy (SpoRIC)

Congratulations

To our esteemed professors from the School of Electrical Engineering (SELECT), School of Mechanical Engineering (SMEC), School of Computer Science and Engineering (SCOPE) & Technology Information Forecasting and Assessment Council (TIFAC CORE) for securing a **Consultancy Project** from M/s Super Flow Technologies, Pallakapalayam, Namakkal, Tamilnadu


Consultant : Dr. Elangovan D


Co-Consultants : Dr. Thimil Karuppa Raj R


Dr. Kalishayan M


Dr. Arun R


Dr. Dennis Ashok S


Dr. Rangithumar S

Title of the Project: The Design and Development of a 1 kW Proton Exchange Membrane (PEM) Fuel Cell Stack for Stationary Power Generator Application
Sanctioned Amount: Rs. 15,93,000/- and Project Duration: 12 Months


VIT
 Vellore Institute of Technology
Approved by the Government under section 7 of VIT Act, 2002

Sponsored Research and Industrial Consultancy (SpoRIC)

Congratulations

To our esteemed Professor from the School of Electrical Engineering (SELECT) for securing a **Consultancy Project** from M/s. Satayush Jeevanam Healthcare India Pvt. Ltd., Chennai


Consultant : Dr. P. Uma Sathyakam

Title of the Project : Design and Fabrication of a Piezoelectric sensor for Naadi pulse measurement
Sanctioned Amount Rs.53100/- and Project Duration : 12 Months

PATENTS PUBLISHED



Name of the Student: ZIREVA TANAKA
JOHANNES

Reg.No. 22BEI0109

Title: A CAPACITIVE TEMPERATURE SENSING
AND MEASUREMENT SYSTEM

Application Number: 202541105356

Date:31-10-2025

Coordinators: Dr.Venkata Lakshmi Narayana K
22BEI0109 – Mr.Zireva Tanaka Johannes



Name of the Student: Mr.Ananda kumar S

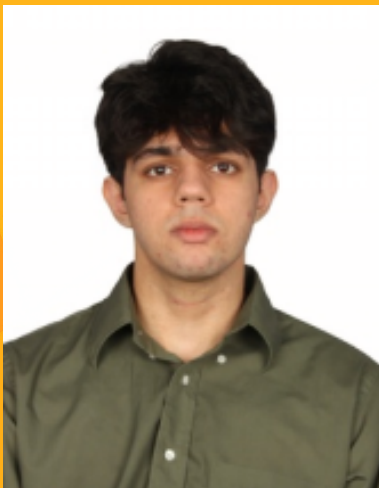
Reg.No. : 23PHD0520

Title: PORTABLE FLOATING ELECTROLYZER
DEVICE FOR SUSTAINABLE HYDROGEN
GENERATION USING NATURAL WATER SOURCES

Application Number: 202541103990

Date: 29-10-2025

Coordinators: Dr.KALAISELVAN N , 23PHD0520 -
Ananda kumar S



Name of the Student:SHAURYA SETHI

Reg.No. 22BEE0136

Title: AGENTIC SYSTEM FOR AUTOMATED
SCHEMATIC AND PCB DESIGN FROM
NATURAL LANGUAGE

Application Number: 202541094496

Date:01-10-2025

Coordinators:

21170 -Dr. YUVARAJ N Dr. SRI PREETHAA K R
Reg.No.22BEE0136 - SHAURYA SETHI



Faculty Name: Dr. Ponnambalam P

Title: A SYSTEM FOR CONTROLLING THE
BIDIRECTIONAL OPERATION AND SPEED
OF A DC MOTOR

Application Number: 202541105124

Date: 31-10-2025

Coordinators: Dr. Ponnambalam P,
Dr.Marimuthu, 25MPE0012 - Iqjas Fathima

FACULTY ACHIEVEMENTS



PROJECT TEAM AT THE WINDING CENTRE OF EXCELLENCE, WMG, UNIVERSITY OF WARWICK, UK

Dr. C. Thirumurugan, Assistant Professor, excelled as **Project Engineer - Insulation Systems** within the Innovative Medium Power Electric Thrust utilization System (IMPETuS) project at Warwick Manufacturing Group (WMG), University of Warwick (67th QS World Ranking-2024). WMG, a global leader in applied manufacturing R&D, partnered with lead Collins Aerospace and University of Nottingham. He completed 13 months Innovate UK project for high-performance electric machine insulation in aerospace.

Dr. Thirumurugan optimized manufacturing workflows to mitigate cut-edge degradation caused by laser cutting, shearing, or EDM which increases core losses and compromises insulation integrity in aerospace motors. His rigorous qualification methods enhanced reliability for scalable production, directly supporting hybrid-electric propulsion goals. These breakthroughs secured a high-impact IEEE Transactions publication and a featured presentation at the IET PEMD 2025 Conference in Turin, Italy.

FACULTY ACHIEVEMENTS



Dr.Mahalakshmi P winner for the event Basketball 3vs3 conducted by The Department of Physical Education in the 17th Year Smt. Rajeswari Viswanathan Memorial Tournament on 12.12.2025



Dr.Chilukuri Venkata Mahendra participated in 5th IGBC Data Centre Summit: AI & Sustainability - Powering India's Data Centre Revolution as Expert Panel Member, 15 - 16 October 2025, HILTON Manyata Techpark, Bangalore



Dr K Selvakumar and Dr.Chilukuri Venkata Mahendra participated in IEEE TENCON 2025, 27 - 30 October 2025, Kota Kinabalu, Malaysia.

FACULTY ACHIEVEMENTS



Dr. Chilukuri Venkata Mahendra Participated in DRDO Industry-Academia workshop on FUTURISTIC ADVANCED COMBAT VEHICLE TECHNOLOGIES (FACT 2025) December 17-18, 2025

Dr. Geetha Mani (Lead) and Dr. V. Indragandhi received a GBP 2,000 (2.4 lakhs) Research Community Training Grant from The Association of Commonwealth Universities (ACU), UK for Leveraging Digital Twin Technology for Sustainable Process Control



Dr. Chilukuri Venkata Mahendra participated in Workshop on Cybersecurity in Power Grids at IISc Bangalore, 23 - 26 December 2025

FACULTY FOREIGN VISIT



Through VIT International Research Fund Scheme (VIN) Award Dr. Albert Alexander S visited Botswana International University of Science and Technology (BIUST), Botswana from September 27 to October 22, 2025.



Paper titled 'Context-Aware Scene Text Alignment Classification for Mobile Devices' has been presented in TENCON-2025 hosted at the Sabah International Convention Centre, Sabah, Malaysia, from 27th to 30th October 2025 by Dr. Selvakumar K.



Dr.Chilukuri Venkata Mahendra Participated in IEEE TENCON 2025 at Kota Kinabalu, 27 - 30 October 2025, Malaysia



Dr. N. Rajasekar visited Aalborg university during 1st October 2025 till 30th November 2025 as a part of his VIN AWARD. During his stay he initiated various research collaborations and the renewal of MoU

INTERNATIONAL FACULTY GUEST LECTURES ORGANISED



Title: Powering The Future: How VIT Shaped My Journey To Global Grids

Date:14-10-2025

Resource Person: Dr. Akshay Kumar Jain

Organisation: Pacific Northwest National ,United States of America Laboratory

Coordinators: Dr.Prabhakar Karthikeyan S, Dr.Gokulakrishnan G

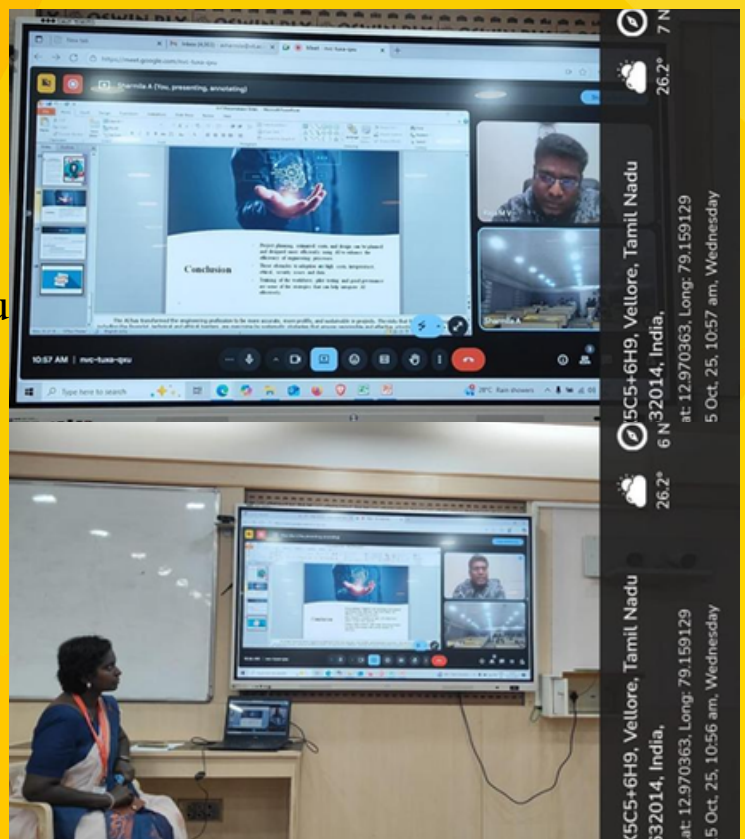
Title: Revolutionary Influences Of AI In Engineering Sectors

Date:15-10-2025

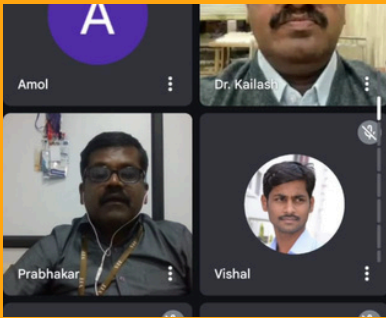
Resource Person: Mr. Raja Manambedu Vijayakumar

Organisation: Westcliff University, United States of America

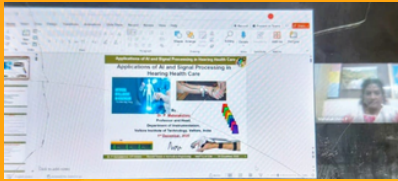
Coordinators: Dr.Sharmila A, Dr.Monica Subashini M



LECTURE BY FACULTY



Prof. S. Prabhakar Kartikeyan, has served as a keynote speaker for Online One Week International Faculty Development Program (FDP) on The Art of Professional Growth: A Faculty Enrichment Program organized by the Department of Electrical Engineering, SKN Sinhgad College of Engineering, Pandharpur, India from 15-20 December 2025.



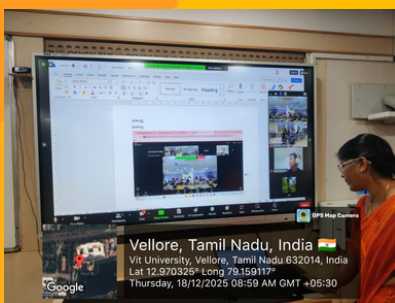
Dr. P. Mahalakshmi: “Resource Person” – for the Online Refresher Course on Recent Trends in Biomedical Engineering” organized by the Malaviya Mission Teacher Training Center at the Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram, Chennai, during 01 – 13 December 2025, Tamil Nadu.



Dr. Belwin Edward delivered an International Joint Research Lecture Series on Power Electronics –VIT Vellore, India and Universitas Airlangga, Indonesia on 26-11-2025.



Dr. Jacob Raglend delivered an International Joint Research Lecture Series on ‘Renewable Energy’ –VIT Vellore, India and Universitas Airlangga, Indonesia on 26-11-2025.



Dr. Janaki delivered an International Joint Research Lecture Series on “Design of PID controller using Genetic Algorithm” with the students of VIT Vellore, India and Universitas Airlangga, Indonesia on 18-12-2025.



Dr. Monica Subashini M delivered an International Joint Research Lecture Series on From Data to Decisions: Learning Rules and Learning Methods in Machine Learning VIT Vellore, India and Universitas Airlangga, Indonesia on 19-12-2025.

INDUSTRIAL ENGAGEMENT



On 29-10-2025 , a group of enthusiastic students from 39 SELECT, VIT, & Two faculty members Dr.Rajini G.K and Dr.Balaji S embarked on a highly informative industrial visit to Thirumalai Chemicals Limited, Ranipet



Five Faculty members from SELECT
Dr.Kowsalya M,Dr.Yeddula Pedda
Obulesu,Dr. Sudhakar N,Dr. Arun N,
Dr. Sankardoss V, visited Stellantis
Avtec Powertrain India Pvt. Ltd.Hosur
on December 19, 2025

INDUSTRY PARTNERSHIP



Institute :Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia
Coordinators: Dr.Partha Sharathi Mallick
,Dr.Monica Subashini M
Date: November 4, 2025

Purpose: To exchange academic staff members for the purpose of research, teaching and the presentation of special courses in their field of specialization



Partnering Company: Satayush Jeevanam Healthcare India Pvt Ltd,Chennai
Date: 04-12-2025

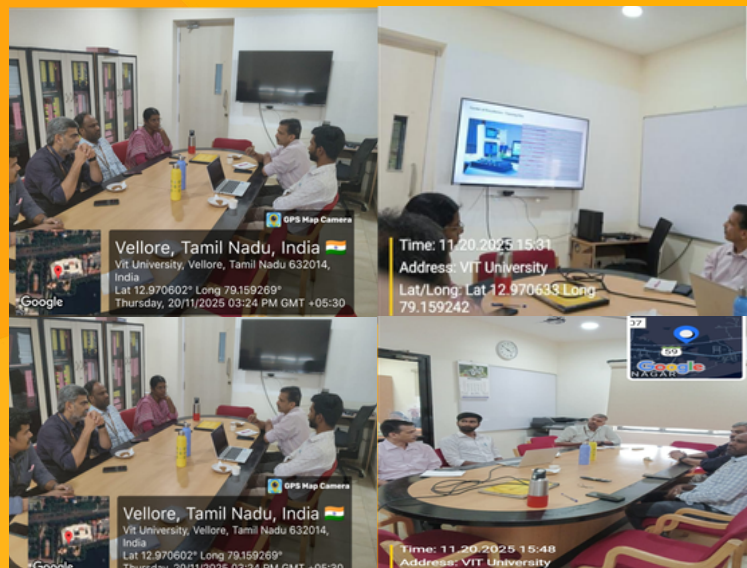
Coordinators: Dr. Kowsalya M, Dr. Uma Sathyakam P, Dr.Mahalakshmi P
Purpose: Consultancy project between Satayush Jeevanam Health Care India and VIT.



Institute :Aarupadai Veedu Medical College (AVMC), Puducherry
Coordinators: Dr.Monica Subashini M
Date: November 4, 2025

Purpose: This MoU establishes a collaborative framework to enhance academic exchange, research initiatives, innovation activities, and institutional development. The event featured an exchange of mementos and active participation from faculty members and administrators of both institutions, reflecting a shared commitment to joint growth.

INDUSTRY COLLABORATION



A discussion meeting with Industry Representatives from Siemens Industry, SITRAIN, Chennai & Faculty Members (Control and Automation Dept., SELECT, VIT) on 20th November 2025 about Siemens TIA Portal Updates, Revamping Existing Laboratory Models , Centre of Excellence (CoE) Initiative



As a pivotal step in strengthening Industry/academia collaborations six SELECT faculty members including Dr. M. Kowsalya, Dean SELECT visited 400 MW plant Hubli on 6th December 2025



A team of four faculty member from SELECT and SENSE visited the Infineon Technologies India Private Limited, Bengaluru on 13th December 2025

INDUSTRY GUEST LECTURE ORGANISED



Title: Data Acquisition And Custom Hardware Interface To Labview

Date:14-10-2025

Resource Person: Mr. Illamparithi Tammizhanagu

Organisation: Fibonacci Engineering

Coordinators: Dr,M Praveenkumar, Dr.Abhishek G

Title :Distributed Control And Computer Networking Architectures
For Modern Power Plants

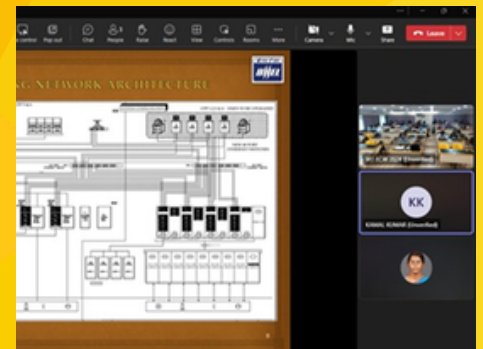
Date:14-10-2025

Resource Person: Mr. T Kamal Kumar

Organisation: Project Engineering and Systems Division BHEL

Coordinators:

Dr.Manimozhi M, Dr.Venkata Lakshmi Narayana K



Title :The Startup Journey From VIT To Founder Life

Date: 07-11-2025

Resource Person: Ms V Keerthana

Reg.No: 06BEE159

Organization: SAIL Analytics

Coordinators: Dr.Prabhakar Karthikeyan S, Dr.Gokulakrishnan G

Title :MRI Signal Processing And Protocol Optimization

Date:13-10-2025

Resource Person: Mr SHANKAR HARIHARAN

Reg.No: 17BEI0045

Organization:Siemens Healthcare

Coordinators: Dr.Mahalakshmi P, Dr.Uma Sathyakam P



Title : Silicon Chip Design From Circuits To System

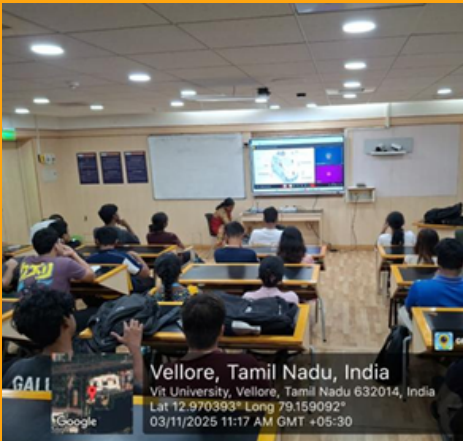
Date: 13-11-2025

Resource Person: Ms Anushka Tiwari 14BEC0297

Organization: Intel Technology India Pvt Ltd Bengaluru Karnataka
560103

Coordinators: Dr.Rashmi Ranjan Das

INDUSTRY GUEST LECTURE ORGANISED



Title :Application Of Signals And Systems In Automotive System Engineering

Date:03-11-2025

Resource Person:Nivedhika Devaraj

Organisation:Valeo India Private Limited

Coordinators:Dr.Yuvapriya T, Dr.Amutha Prabha N, Dr.Jitendra Kumar Goyal

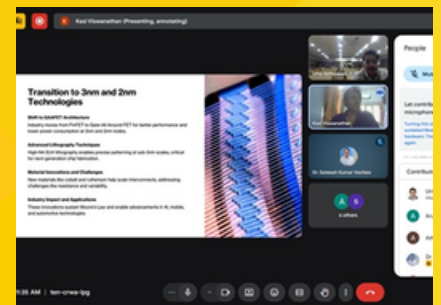
Title: Latest Trends In Chip Design Technologies

Date:15-10-2025

Resource Person: Mr Kasiviswanathan

Organisation: Fujitsu Communications

Coordinators: Dr.Uma Sathyakam P, Dr.Mallikarjuna Golla



Title :Battery And Its Manufacturing Technology

Date:07-11-2025

Resource Person:ER Jeyakumar

Organisation:Nsure Research Centre Bangalore

Coordinators:Dr.Saravanakumar R, Dr.Yeddula Pedda Obulesu

Title :From Campus To Company-An Open Conversation With A VIT Alum Entrepreneur

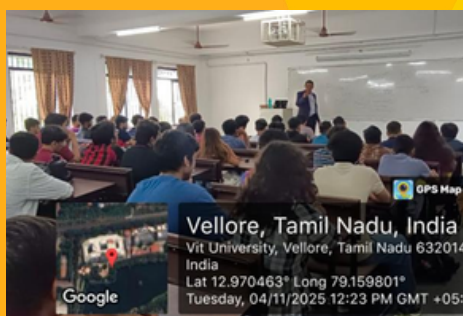
Date:07-11-2025

Resource Person:V KEERTHANA

Reg.No: 06BEE159

Organization: SAIL Analytics

Coordinators: Dr.Prabhakar Karthikeyan S, Dr.Gokulakrishnan G



Title: Engineering Methods And Standards With Respect To Sustainability

Date:04-11-2025

Resource Person: Mr. Vijayaraghavan Kothandaraman

Organisation:Jotun MEIA

Coordinators: Dr.Vijaya Priya P, Dr.Vanishree J

INDUSTRY GUEST LECTURE ORGANISED



Title: Advanced Microcontroller Bus Architecture (AMBA) Protocols (AHB & AXI4)

Date:14-11-2025

Resource Person:Mrs. Leela Madhav Katragadda

Reg.No: 15MPE0038

Organization: Microchip Technology INC, Hyderabad

Coordinators: Dr.Rama Prabha D, Dr.Ponnambalam P, Dr.Balamurugan S

Title: Advancing Chip Design with Human-AI Collaboration

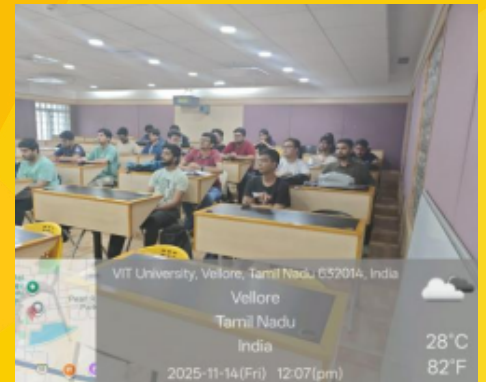
Date:14-11-2025

Resource Person: Mrs. Ruchi Misra

Reg.No.06BEI048

Organization: IBM, Bangalore

Coordinators: Dr.Marimuthu R, Dr.Balamurugan S



Title: Reliable Design of PMSM for Electric Vehicle Application

Date:13-11-2025

Resource Person: Dr. Daki Krishnachaitanya,

Organization: Panasonic Life Solutions,

Coordinators: Dr.Chitra A

Title: Designing Tomorrow S Mobility: Plant Models, Functional Safety ISO 26262 And Sustainable Innovation

Date: 03-10-2025

Resource Person: Mr. A Abishek Reg.No.17MPE0006

Organization:Ashok Leyland, Chennai

Coordinators:Dr.Ponnambalam P, Dr. Washima Tasnin



Title :Integration Of Electric Vehicles In Smart Grid

Date:05-11-2025

Resource Person:M Malaiyappan

Organisation:Pantech Solutions India Pvt Ltd

Coordinators:Dr.Arunkumar G, Dr.Sankardoss V



INDUSTRY GUEST LECTURE ORGANISED



Title :Application Of Signals And Systems In Automotive System Engineering

Date:03-11-2025

Resource Person:Nivedhika Devaraj

Organisation:Valeo India Private Limited

Coordinators:Dr.Yuvapriya T, Dr.Amutha Prabha N, Dr.Jitendra Kumar Goyal

Title :Battery And Its Manufacturing Technology

Date:07-11-2025

Resource Person:ER Jeyakumar

Organisation:Nsure Research Centre Bangalore

Coordinators:Dr.Saravanakumar R, Dr.Yeddula Pedda Obulesu



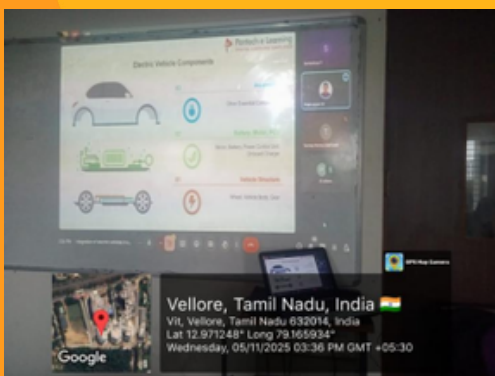
Title :Journey Through Connected Technologies

Date:13-11-2025

Resource Person:MR Kandlagunta Sridhar Reddy

Organisation:Cisco Systems

Coordinators:Dr.Maddela Chinna Obaiah , Dr.Mallikarjuna Golla



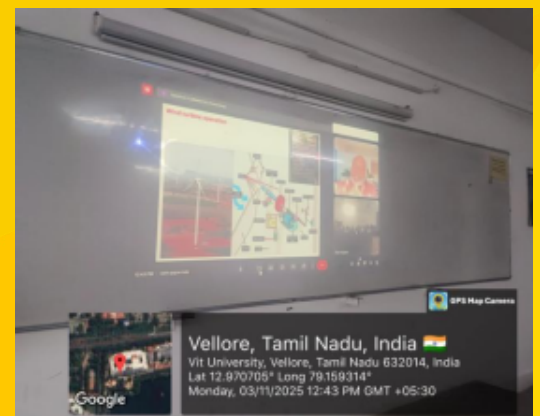
Title :SCADA Control In Wind Energy Conversion System

Date:03-11-2025

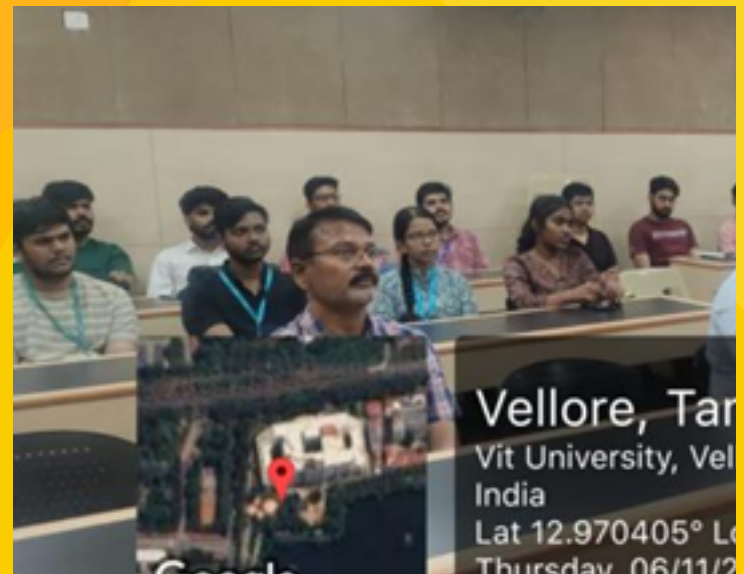
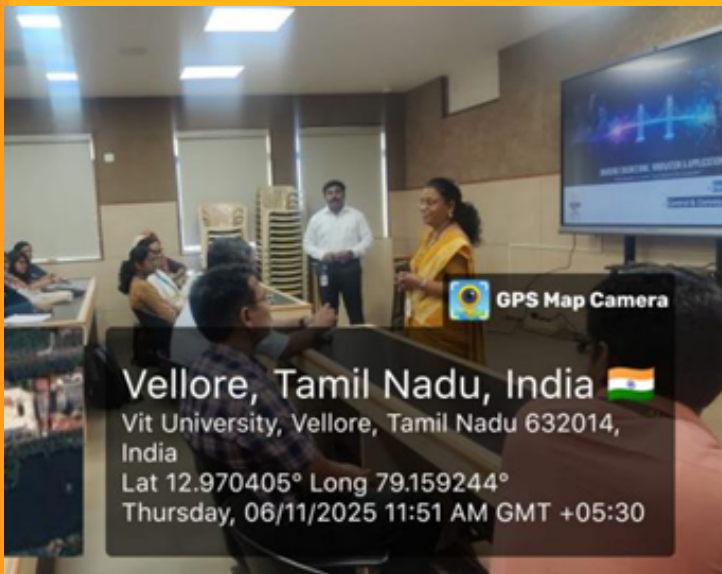
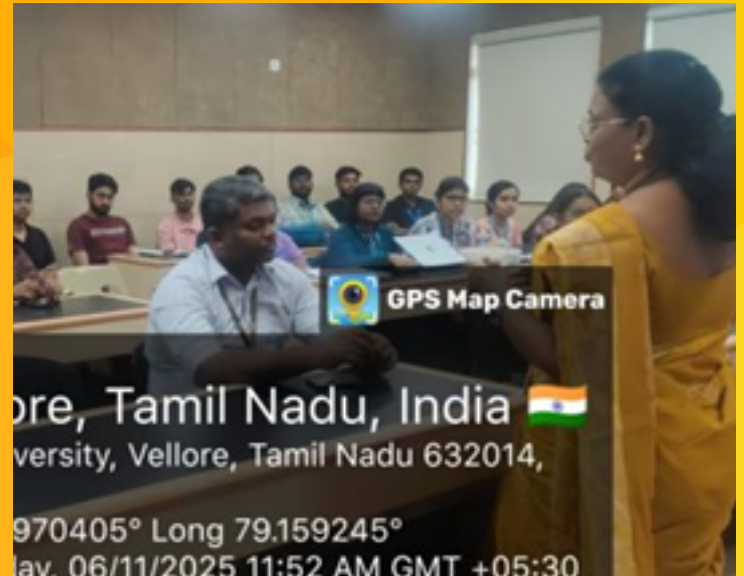
Resource Person:Dr. Kumaravel

Organisation:Deutsche WindGuard India Chennai

Coordinators:Dr.Ravi K



SET - CONFERENCE



As a part of 26th SET Conference a Key note Lecture was conducted on “Unmanned Aerial Systems : Bridging Engineering, Innovation & Applications” from 06-11-2025 to 07-11-2025 . Coordinators: Dr.Rashmi Ranjan Das, Dr.Subramanian K

FACULTY DEVELOPMENT PROGRAMME ORGANISED

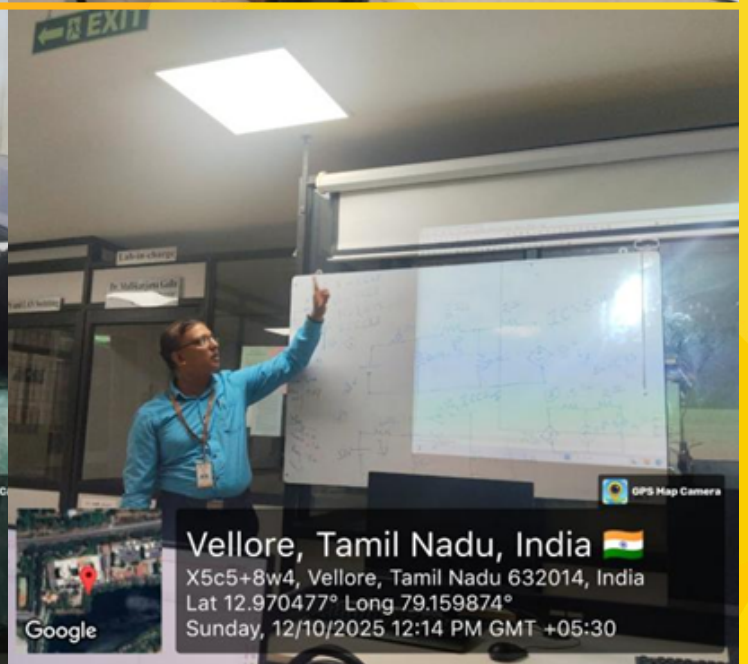
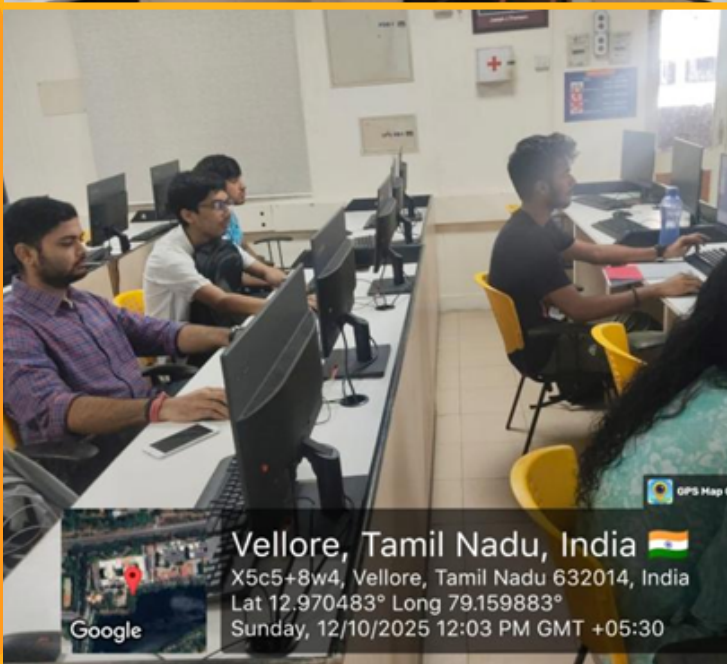
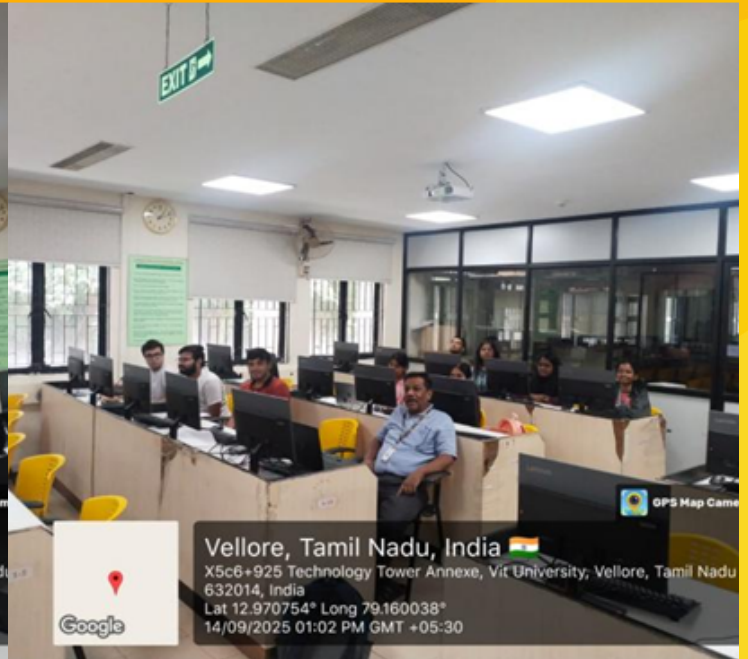
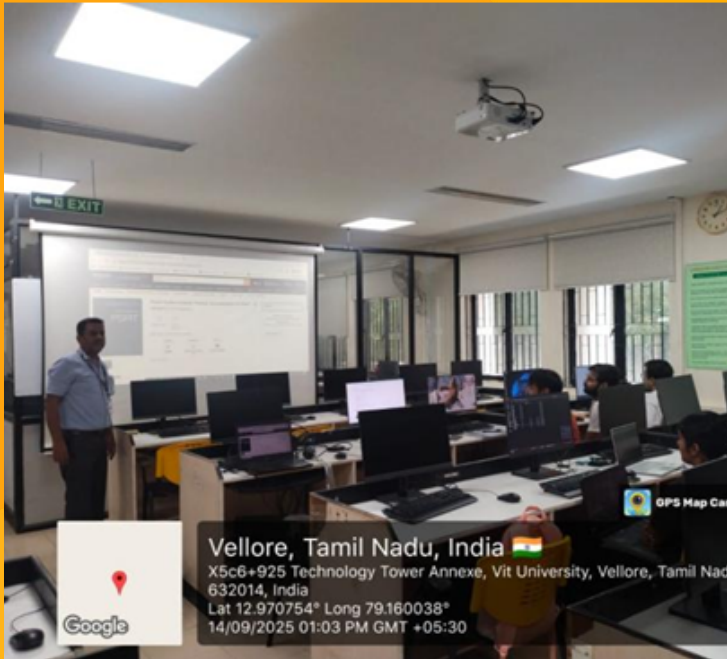


SELECT & TLCE organised a five-day FDP on “EFFECTIVE IMPLEMENTATION OF OBE AND NUANCES OF ACCREDITATION PROCESS (TLCE20250224)” from 17-12-2025 TO 21-12-2025 .Coordinators: Dr.SONAM SHRIVASTAVA, Dr.ALBERT ALEXANDER S



A two-day FDP on “DRONE TECHNOLOGIES AND APPLICATIONS” from 25-11-2025 to 26-11-2025. Coordinators: Dr.Bagyaaveereswaran V, Dr.Manimozhi M

VALUE ADDED PROGRAMME ORGANISED



A Value Added Programme on “VAC1824 - INTRODUCTION TO POWER SYSTEMS SOFTWARES” from 14-09-2025 to 02-11-2025. Coordinators: Dr. Belwin Edward J, Dr. Ravi K, Dr. Jacob Raglend I

WORKSHOPS ORGANISED



A two-day workshop on Drone Technologies “28-10-2025 & 29-10-2025. Coordinators: Dr.Rashmi Ranjan Das, Dr.Medarametla Praveenkumar, Dr.Jaganatha Pandian B

A one-day workshop on Mastering Modern Measurements: A Practical Workshop on Fluke Technologies date:27-11-2025. Coordinators: Dr.Abhishek G, Dr.Jitendra Kumar Goyal



A two-day workshop on 8051 Microcontroller – Hands on “06-10-2025 & 07-10-2025. Coordinators: Dr. Marimuthu R, Dr.Ponnambalam P, Dr. Rama Prabha



EVENTS

LAB INAUGURATION OF SCHNEIDER COE ON SMART BUILDING & SMART FACTORY

The grand inauguration of the Schneider's Center of Excellence - Smart Building and Smart Factory Laboratory in the presence of our esteemed guests from Schneider Electric India: Ms. Sandhya Devi Varanasi, VP, R&D; Mr. Subhasis Mishra, VP, Head-HR, R&D and Digital and Mr. Anoop Hiwalay, Director -TA. The event was also graced by VIT dignitaries, including Vice President Mr. Sankar Viswanathan, Executive Director Dr. Sandhya Pentareddy, Vice Chancellor Dr. Kanchana Bhaaskaran, and Registrar Dr. T. Jayabarathi, officers from Schneider Electric and faculty members from SELECT on 3rd Nov 2025.



EVENTS

Awareness Programme



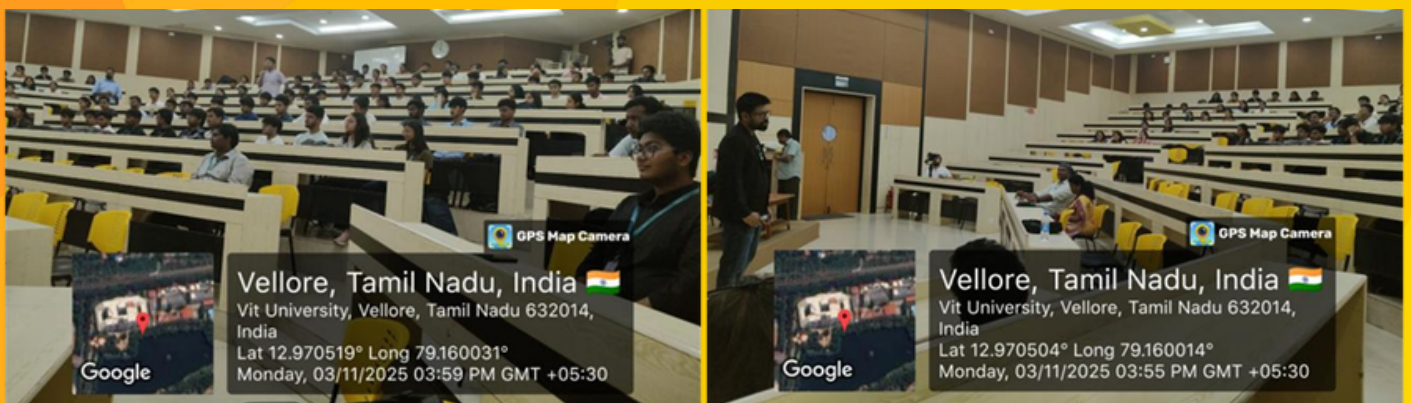
The School of Electrical Engineering VIT Vellore, organized “AWARENESS PROGRAM” on “E-mobility and Sustainability discussions - Lessons from the road” Mr. Sushil Reddy, CEO, Verde Mobility, Gujarat, served as the resource person for the event. Date: 15/11/2025. Coordinators: Dr. Arun N, Dr. Anbarasan P, Dr. Washima Tasnin.

Career Counselling



Seminar Titled : “ENGINEERING THE FUTURE: CAREER READINESS THROUGH TECHNICAL SKILL DEVELOPMENT” FOR SCHOOL STUDENTS” was conducted on Date: 07-10-2025 more than 120 students participated in the event. Coordinators: Dr. Geetha M, Dr. Monica Subashini M, Dr. Sharmila A

Seminar



School of Electrical Engineering (SELECT) and Career Development Centre (CDC) has organized the student interaction with Schneider Electric India related to the placement and internship opportunities. more than 140 students participated in Seminar: Titled “STUDENT INTERACTION WITH SCHNEIDER ELECTRIC INDIA PVT. LTD” was conducted on 03-11-2025. Coordinators: Dr. Jagantha Pandian B, Dr. Ruban N, Dr. Venkataramana Kasi.

NEWSLETTER TEAM

Advisory Members



Dr. KOWSALYA M,
Professor(HAG) & Dean



Dr. N. RUBAN
Professor & Associate Dean



Dr. P. Vijayapriya
Professor & Head , EEE



Dr. MAHALAKSHMI P
Professor &HOD,EIE



Dr. YEDDULA PEDDA OBULESU
Professor &HOD,EPE



Dr. VINODH KUMAR E
Professor & HOD, C&A

Editors



Dr. JANAKI M
Professor, SELECT



ANIRUDH MAHESHWARI
24BEE0100



AFRAH CHOPDAR
24BEE0041



NISHU NIHARIKA
24BEE0076

UPCOMING EVENTS

**Industry Academia Conclave
- School of Electrical
Engineering
(IAC - SELECT 2026)**

26 - 28 March, 2026

Organized by
School of Electrical Engineering
Vellore Institute of Technology Vellore, India

**EXPLORING MATLAB -SIMULINK
(VAC1710)**

15, 21 & 22 FEB 2026
8 MAR 2026

Value Added Programme
Organized By
School of Electrical Engineering (SELECT)
Department of Instrumentation

Registration Link: <https://events.vit.ac.in>
Registration Fee: Rs.200/-

**TWO DAY TRAINING ON
SEMICONDUCTOR CIRCUIT
DESIGN AND SIMULATION**

SPONSORED BY
**BRITISH
COUNCIL**

ORGANIZED BY
SCHOOL OF ELECTRICAL ENGINEERING

10-11 JAN 2026

HANDS-ON TRAINING WITH CADENCE TOOLS AT TT128 LAB

School of Electrical Engineering

**National Level Workshop
on "Exploring Power
Distribution Infrastructure
and Operations: A Field
Study"**

8th and 9th January 2026

For Registration: <https://events.vit.ac.in/>

A One-day National Workshop (Hands-on) on
**AI on Edge Devices for
Robotic Applications**

09th January 2026

Organized by
School of Electrical Engineering (SELECT) &
School of Electronics Engineering (SENSE)

TT 311
9:00 AM to 6:00 PM

For Registration:
<https://events.vit.ac.in/>

**SELECT
MAKEATHON '26**

26TH- 28TH MARCH 2026

Organized by
School of Electrical
Engineering (SELECT)

9309 168579
<https://events.vit.ac.in>
Anna Auditorium

Two Days Workshop on
**Ignition Core: SCADA Application
Build and Deployment**

Coordinators :
Dr.S.Albert Alexander PDF (USA), SMIEEE,
UGC-Raman Research Fellow
Associate Professor Senior
Dr. Sonam Shrivastava
Assistant Professor

28 - 29 Jan 2026

Organized By : SELECT

**INTERNATIONAL SYMPOSIUM ON
LARGE LANGUAGE MODELS FOR
ELECTRIC VEHICLE APPLICATIONS**

Organized by
School of Electrical Engineering

23-JAN-2026

Registration Link:
<https://forms.gle/7PEwsNVrnmcmrctb8>

VIT
Vellore Institute of Technology
(Deemed to be University) under section 3 of UGC Act, 1956

**ENERGY
CONSERVATION
WEEK 2025**
(05 -11 January 2026)

14 December
National Energy Conservation Day

Organized By
SCHOOL OF ELECTRICAL ENGINEERING
VELLORE INSTITUTE OF TECHNOLOGY
VELLORE 632 014

In association with
Anusandhan
National
Research
Foundation
pels
IEEE POWER
ELECTRONICS SOCIETY
Powering a Sustainable Future

VIT
Vellore Institute of Technology
(Deemed to be University) under section 3 of UGC Act, 1956

Power Quality Data Analytics

One-day Workshop
Covering IEC TS 63222 and IEC TS 62749
School of Electrical Engineering (SELECT)

23rd January 2026

**One Day Workshop
On
Embedded Systems Architecture
and ARM Processor – Hands on**

Organized by
School of Electrical Engineering (SELECT)

30 January 2026

Registration Fee: <https://events.vit.ac.in/>

Dr. P.Ponnambalam - 09894777845
Dr. D.Rama Prabha - 09443099590

"SINCE GOOD CONDUCT BRINGS EMINENCE, IT SHOULD BE GUARDED MORE CAREFULLY THAN LIFE ITSELF,"- THIRUVALLUVAR

ஒழுக்கம் விழுப்பந் தரலான்
ஒழுக்கம் உயிரினும் ஒம்பப் படும் திருவள்ளுவர்