Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Electrical and Communication

Department of Electrical and Electronics Engineering

NATIONAL BOARD OF ACCREDITATION

ANNUAL REPORT

2025-2026

Foreword



Col. Prof. Vel. Dr. R. Rangarajan Founder President & Chancellor



Dr.Mrs.Sagunthala Rangarajan Foundress President

Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology has been on the path of delivering quality education by developing the young vibrant student fraternity with ethical and moral values, while boosting their research culture and innovative technical skills.

Our infrastructure is vast with well-equipped laboratories, highly qualified and motivated faculty, who work with commitment and dedication for the cause of education and research. At Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, research and innovation are regarded as pillars of our success. Most of the faculty members are involved in academic activities, research publications and Intellectual Property Rights.

We deeply appreciate that the Department of Electrical and Electronics Engineering has brought the annual report for the academic year 2025-26 highlighting the faculty and student accomplishments, funded projects and industry interactions etc. Updating with recent trends in technology is very important in the life of an educationalist and all are supported as well as encouraged in the department.

We congratulate all the faculty members and students of the Department of EEE for their worthy efforts and wish them the very best in all imminent endeavors.

Foreword

Mrs. Rangarajan Mahalakshmi Kishore
Chairperson & Managing Trustee



It is with much delight that I pen down a few words about annual report of the Electrical and Electronics Engineering department for the academic year 2025-26. I am very happy to witness the achievements of the faculty members and students in various academic and research activities.

I congratulate the entire team for the smart work they have put forth to stretch this annual report accomplishments to its much-needed color and vigor. It brings me great pleasure to commend the department for turning out talented-driven, and innovative engineers whom the society needs to meet new and challenging issues. My best wishes go out to everyone who had contributed and looking forward to another year of success.

Foreword

Prof. Dr. Rajat Gupta
Vice Chancellor

Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology



Dear Esteemed Faculty, Staff, and Students,

As we embark on this reflective journey, I am immensely proud of the remarkable accomplishments and advancements that have defined our trajectory over the past year.

In the pursuit of academic excellence, our dedicated faculty members have continued to uphold the highest standards of teaching, research, and mentorship. Their unwavering commitment to fostering a dynamic learning environment has undoubtedly shaped the next generation of brilliant minds in the field of Electrical and Electronics Engineering. Our students have showcased exceptional brilliance and ingenuity in their academic pursuits and extracurricular activities. Their enthusiasm, determination, and passion for innovation continue to be a source of inspiration for all of us.

Throughout the year, the department of Electrical and Electronics Engineering has made significant strides in cutting-edge research and development, contributing to groundbreaking discoveries and technological advancements. We have actively engaged in initiatives aimed at promoting sustainable development, technological literacy, and social responsibility.

I extend my heartfelt gratitude to each and every member of the department for their unwavering dedication and hard work. Your relentless efforts have been instrumental in making our department a beacon of excellence in the realm of Electrical and Electronics Engineering. Together, let us embrace the opportunities that lie ahead and strive to create a brighter, more sustainable future through our collective endeavors.

Message from Dean's Desk

Dr. R.S. Valarmathi
Dean – School of Electrical and Communication



Dear Colleagues, Friends, and Supporters,

I am pleased to extend a warm welcome to you all as we present the Annual Report of the department of EEE for the academic year 2025-26. As the Dean of this esteemed school, it is my privilege to offer you a glimpse into the remarkable journey and achievements we have embarked upon in the past year. The School of Electrical and Communication has always been at the forefront of pioneering research, innovation, and education in the fields of electrical and electronics engineering, electronics and communication engineering, Biomedical Engineering and Bio-technology and related inter-disciplines. This report serves as a testament to our unwavering commitment to excellence and progress in these domains.

Throughout academic year 2025-26, we have seen our faculty, students, and staff rise to new heights, surpassing boundaries, and making significant contributions to both academia and industry. The pages of this report will take you on a journey through our groundbreaking research projects, collaborative initiatives, academic programs, and community engagement efforts. Our faculty members have continued to push the boundaries of knowledge, producing cutting-edge research that has the potential to reshape industries and improve the quality of life for people around the world. Our students, the future leaders of our fields, have demonstrated exceptional dedication and creativity, leaving an indelible mark on our school and society.

The School of Electrical and Communication is committed to advancing the frontiers of knowledge, nurturing the talents of our students, and serving as a beacon of excellence in our field. I invite you to explore the contents of this report and gain a deeper understanding of the transformative work that has taken place within our school. Together, we can continue to push the boundaries of innovation and education in electrical and electronics engineering. Thank you for your continued trust and support as we embark on another year of progress and growth. I am confident that the School of Electrical and Communication will continue to lead the way in shaping the future of our disciplines.

MESSAGE FROM THE DEPARTMENT HEAD - EEE

Dr. K. Karunanithi
HoD & Professor
Department of Electrical and Electronics Engineering



Dear Esteemed Colleagues, Stakeholders, and Friends,

It is with great pleasure and a deep sense of pride that I present the Annual Report of the Department of Electrical and Electronics Engineering for the academic year 2025-26. As the Head of this department, it is my distinct honor to present this comprehensive overview of our achievements, progress, and endeavors over the past year.

In this report, you will find detailed insights into our research initiatives, collaborations, academic programs, and community engagement efforts. Our dedicated faculty members, talented students, and committed staff have collectively contributed to our department's success, and their hard work and dedication shine through the accomplishments we've achieved.

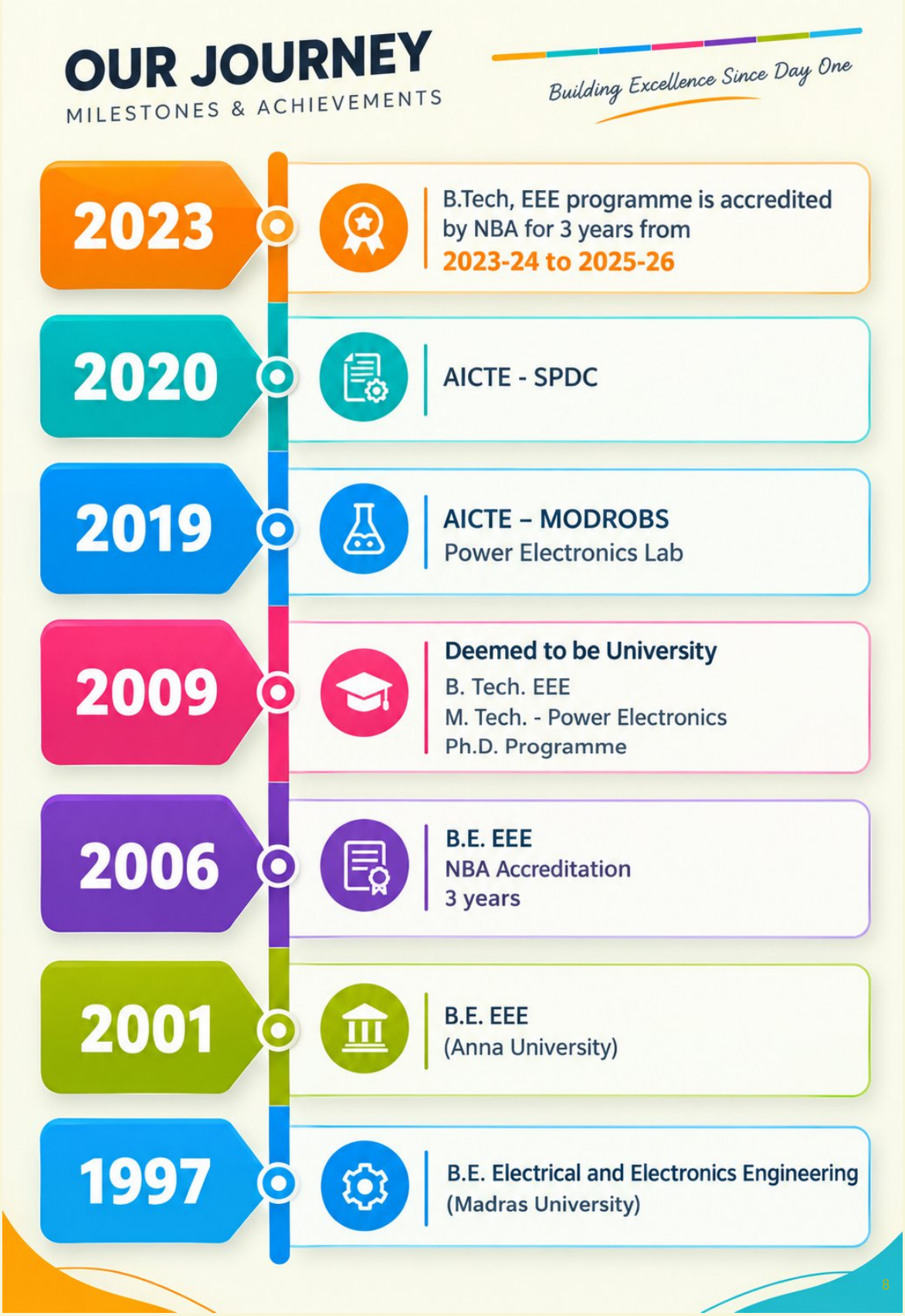
I want to express my heartfelt gratitude to all our faculty members, students, staff, alumni, industry partners, and supporters who have played a pivotal role in our department's continued growth and success. Your unwavering support and collaboration have been instrumental in our journey, and I look forward to our continued partnership in the years to come.

I encourage you to delve into the pages of this report to gain a deeper understanding of the remarkable work that has taken place within our department. Together, we can look forward to an even brighter future filled with groundbreaking research, transformative education, and meaningful contributions to the field of electrical and electronics engineering.

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DEPARTMENT TIMELINE



DEPARTMENT PROFILE

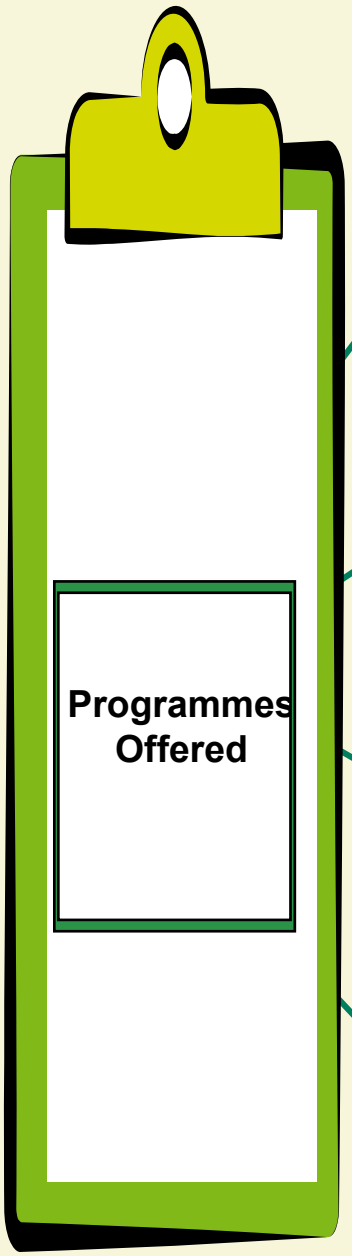
- The department of Electrical and Electronics Engineering has been started in the year 1997. The department offers B.Tech.-Electrical and Electronics Engineering (EEE), B.Tech Electrical and Electronics Engineering with Specialization in Computer systems, M.Tech.-Power Electronics and Ph.D. programmes.

- The B.Tech. EEE program has been accredited by National Board of Accreditation (NBA) under Tier-I category for three academic years from 2023-24 to 2025-26. The department has been strengthened by its passionate and research focused faculty members from reputed universities in India.

- Faculty members having wide range of specializations include Power Systems Engineering, Power Electronics & Drives, Embedded System, VLSI Design and Energy Engineering. The department has well equipped laboratories and state of the art facilities for research and development. The key areas of academic research are Electric Vehicle, Smart Grid, Battery Management System, Industrial Drives, Industrial Automation and Renewable Energy systems.

- The students of our department are involved in nationally significant projects namely SIH, small satellite projects in collaboration with international industries in France, Germany etc. The faculty and students have won awards from KASA, Korea Creative Technology Award, L&T Techgium Best Innovator Award. The department is having 53 active MoUs with CDAC, ARAI, NIWE, Kwality Photonics Ltd etc.

Programmes Approved by AICTE



B.Tech. — Electrical and Electronics Engineering

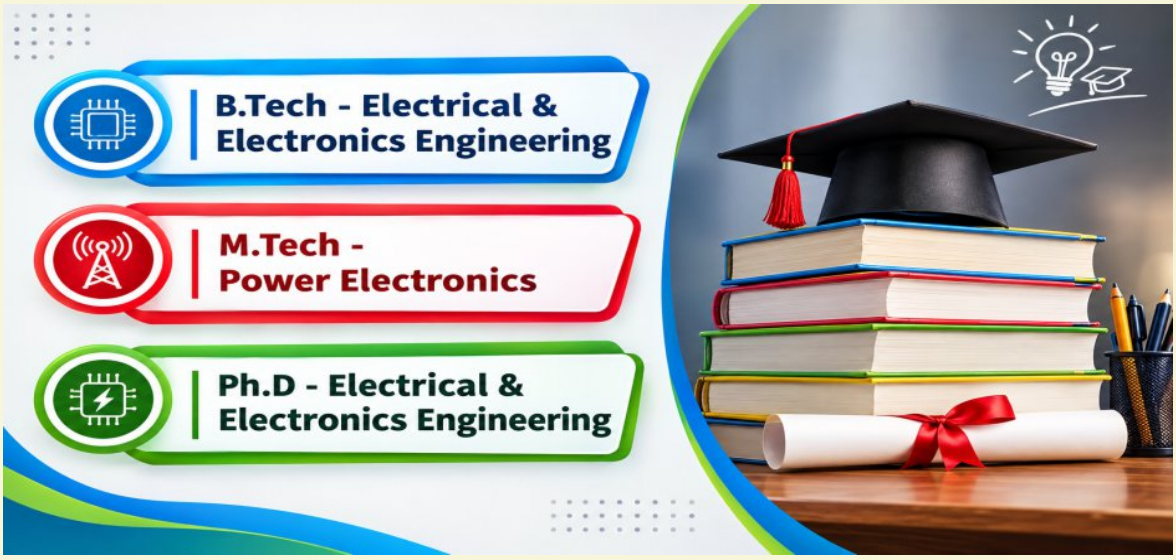
Minor
- Electric Vehicle Technology
- Renewable Energy Sources

M.Tech. — Power Electronics

Ph.D. — Electrical and Electronics Engineering (Full Time/Part Time)

Specialization in
- Computer Systems
- Electric Vehicles

Honors in Smart Grid Technologies



VISION

To offer quality education in Electrical and Electronics Engineering that builds strong principles, enhances employability skills, promotes interdisciplinary research and develops leaders capable of delivering technological solutions to societal and industrial challenges.



MISSION

M1: To provide strong fundamentals and globally relevant education through outcome-based teaching and learning.

M2: To enhance academic, industry and international collaborations for experiential learning, leadership development, teamwork and employability.

M3: To foster a research-oriented academic environment that promotes innovation, interdisciplinary learning, and solutions to industrial challenges and societal needs.

M4: To instil ethical values, sustainability, social responsibility, respect for diversity and lifelong learning in engineering practices.



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PROGRAMME EDUCATIONAL OBJECTIVES (PEOs)

PEO1: Design and analyse electrical and electronic systems by applying the knowledge of mathematics and engineering.

PEO2: Provide practical solution to multidisciplinary societal problems through innovative ideas.

PEO3: Secure positions and continue as valued, creative and proficient employees in a wide variety of fields and industries for a rewarding career.

PROGRAMME OUTCOMES (POs)

Engineering Graduates will be able to:

1. **Engineering Knowledge:** Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.
2. **Problem Analysis:** Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to WK4)
3. **Design/Development of Solutions:** Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)
4. **Conduct Investigations of Complex Problems:** Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (WK8)
5. **Engineering Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and WK6)
6. **The Engineer and The World:** Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment (WK1, WK5, and WK7).

7. **Ethics:** Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (WK9)

8. **Individual and Collaborative Team work:** Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

9. **Communication:** Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

10. **Project Management and Finance:** Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one's own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

11. **Life-Long Learning:** Recognize the need for, and have the preparation and ability for i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (WK8)

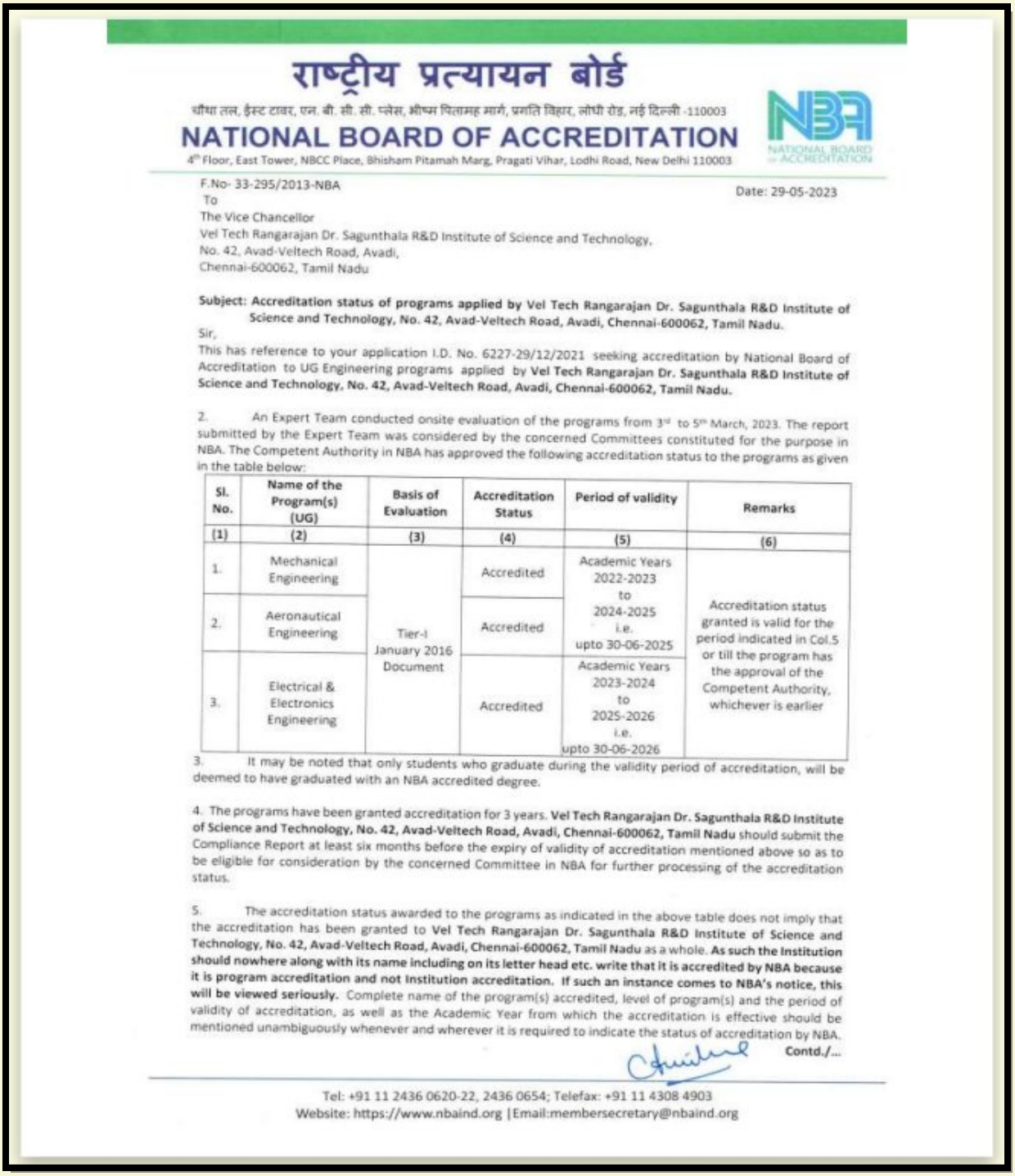
PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1: Apply fundamental of mathematics, physical sciences and Electrical & Electronics engineering to analyze and solve complex real-world problems.

PSO2: Design, develop and implement Electrical, Electronics and Allied engineering systems to meet the demands of industry and suggest solutions for social needs.

DEPARTMENT LEVEL ACCREDITED

The B.Tech, Electrical and Electronics Engineering is accredited by National Board of accreditation (NBA) for the first time from the academic year 2023-24 to 2025-26.



राष्ट्रीय प्रत्यायन बोर्ड

चौथा तल, ईस्ट टावर, एन. बी. सी. सी. प्लेस, भीष्म पितामह मार्ग, प्रगति विहार, लोधी रोड, नई दिल्ली -110003

NATIONAL BOARD OF ACCREDITATION

4th Floor, East Tower, NBCC Place, Bhisham Pitamah Marg, Pragati Vihar, Lodhi Road, New Delhi 110003

F.No- 33-295/2013-NBA

Date: 29-05-2023

To

The Vice Chancellor

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,

No. 42, Avad-Veltech Road, Avadi,

Chennai-600062, Tamil Nadu

Subject: Accreditation status of programs applied by Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, No. 42, Avad-Veltech Road, Avadi, Chennai-600062, Tamil Nadu.

Sir,

This has reference to your application I.D. No. 6227-29/12/2021 seeking accreditation by National Board of Accreditation to UG Engineering programs applied by **Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, No. 42, Avad-Veltech Road, Avadi, Chennai-600062, Tamil Nadu.**

2. An Expert Team conducted onsite evaluation of the programs from 3rd to 5th March, 2023. The report submitted by the Expert Team was considered by the concerned Committees constituted for the purpose in NBA. The Competent Authority in NBA has approved the following accreditation status to the programs as given in the table below:

Sl. No.	Name of the Program(s) (UG)	Basis of Evaluation	Accreditation Status	Period of validity	Remarks
(1)	(2)	(3)	(4)	(5)	(6)
1.	Mechanical Engineering	Tier-I January 2016 Document	Accredited	Academic Years 2022-2023 to 2024-2025 i.e. upto 30-06-2025	Accreditation status granted is valid for the period indicated in Col.5 or till the program has the approval of the Competent Authority, whichever is earlier
2.	Aeronautical Engineering		Accredited		
3.	Electrical & Electronics Engineering		Accredited	Academic Years 2023-2024 to 2025-2026 i.e. upto 30-06-2026	

3. It may be noted that only students who graduate during the validity period of accreditation, will be deemed to have graduated with an NBA accredited degree.

4. The programs have been granted accreditation for 3 years. **Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, No. 42, Avad-Veltech Road, Avadi, Chennai-600062, Tamil Nadu** should submit the Compliance Report at least six months before the expiry of validity of accreditation mentioned above so as to be eligible for consideration by the concerned Committee in NBA for further processing of the accreditation status.

5. The accreditation status awarded to the programs as indicated in the above table does not imply that the accreditation has been granted to **Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, No. 42, Avad-Veltech Road, Avadi, Chennai-600062, Tamil Nadu** as a whole. **As such the Institution should nowhere along with its name including on its letter head etc. write that it is accredited by NBA because it is program accreditation and not Institution accreditation. If such an instance comes to NBA's notice, this will be viewed seriously.** Complete name of the program(s) accredited, level of program(s) and the period of validity of accreditation, as well as the Academic Year from which the accreditation is effective should be mentioned unambiguously whenever and wherever it is required to indicate the status of accreditation by NBA.

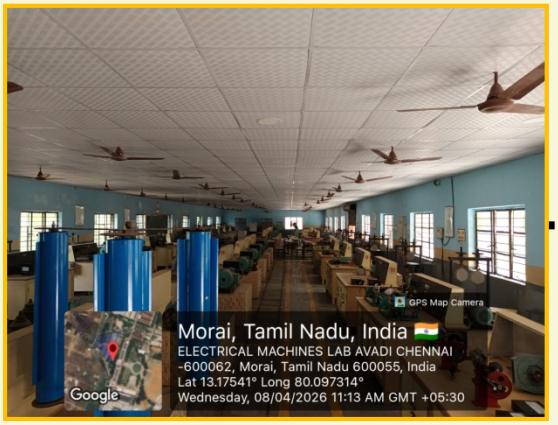
Contd./...

Tel: +91 11 2436 0620-22, 2436 0654; Telefax: +91 11 4308 4903

Website: https://www.nbaind.org |Email:membersecretary@nbaind.org

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LABORATORY FACILITIES



Electrical Machines Laboratory

Major Equipment/Software

- ❑ DC Shunt, Series and Compound Motors
- ❑ 1ϕ and 3ϕ Induction Motors
- ❑ 3ϕ Synchronous Motor
- ❑ Alternators
- ❑ 1ϕ and 3ϕ Transformers
- ❑ Differential Protection Trainer for 3ϕ Transformer



Power Electronics Laboratory

Major Equipment/Software

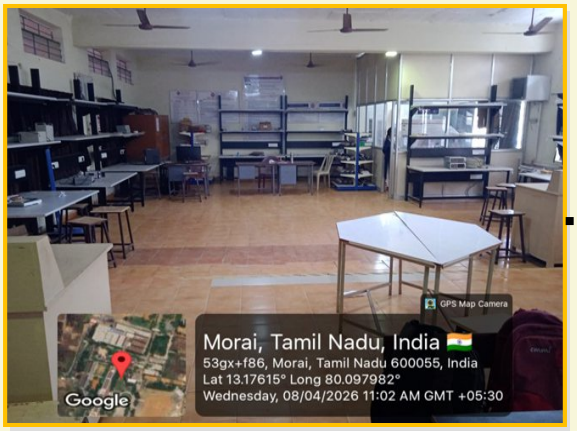
- ❑ 1ϕ Cyclo-Converter
- ❑ 1ϕ/3ϕ Half & Fully Controlled Bridge Converter
- ❑ 3ϕ IGBT Based PWM Inverter
- ❑ 4 Channel Digital Storage Oscilloscope
- ❑ 1ϕ and 3ϕ Electro Mechanical Type Over Current Relay
- ❑ Under Voltage Relay module for Electro Mechanical Type Relay



Power System Simulation Laboratory

Major Equipment/Software

- ❑ ANSYS software
- ❑ Computers and Accessories
- ❑ MATLAB R2025(Campus License)
- ❑ DIgSILENT Power Factory



Control and Instrumentation Laboratory

Major Equipment/Software

- ❑ Function Generator
- ❑ DC and AC Servo Motor
- ❑ Stepper Motor
- ❑ AC & DC Position Control System
- ❑ Stepper Motor and DC Motor Interfacing
- ❑ ADC and DAC Interfacing
- ❑ 8253 Timer Interfacing

LABORATORY FACILITIES

INFRASTRUCTURE

1.Electrical Machines Laboratory



Name of the Equipments

1. DC Shunt, Series, Compound Motor
2. DC Motor Coupled DC Shunt,Compound Generator
3. DC motor coupled Alternator
4. Single phase, Three phase Autotransformer
5. Single Phase, Three phase Induction motor
6. Three phase Synchronous motor
7. Single phase, Three phase Transformer
8. AC, DC Distribution Panel

2.Power Electronics Laboratory





Name of the Equipments

1. Microcontroller and DSP based control of BLDC motor, Stepper motor, Synchronous motor, Induction motor
2. Mc-Murray Bedford Three Phase Inverter
3. Single Phase Cyclo-converter Single Phase Half & Fully Controlled Bridge converter
4. SCR,40MOSFET, IGBT, TRIAC,DIAC Characteristics & UJT Triggering Module
5. UJT Firing for Three phase SCR power Circuit
6. Forced Commutation Kit
7. Series & Parallel Inverter kit
8. Three Phase IGBT Based PWM Inverter
9. Isolation Transformer
10. AC Phase Control using SCR,TRIAC & DIAC
11. Three Phase half & Fully controlled Bridge Converter
12. Step up & Step-down ChopperBuck converter, Boost converter, Buck-Boost converter, Fly-back converter, series and parallel resonant converter

13. 4 Channel Digital Storage Oscilloscope
14. Power Quality Analyser
15. Solar Array Simulator

C6

LABORATORY FACILITIES

3. Control and Instrumentation Laboratory



Process control Trainer Module



Solar Trainer Module

Name of the Equipments

1. Wheatstone, Kelvin, Anderson, Schering, Hay's, De Sauty's Bridge
2. Maxwell's Inductance Bridge with Ring Specimen
3. Function Generator
4. CRO Digital/Analog
5. DC,AC Servo Motor
6. Stepper Motor
7. AC& DC Position Control System
8. Energy Meter
9. PPI,PID Controller
10. Regulated Power Supply
11. Lag,Lead, Lag-Lead Compensator Trainer
12. 8085 Microprocessor Kit
13. 8051 Microcontroller Kit
14. Stepper Motor Interfacing Kit
15. ADC Interfacing Kit

4. Simulation Laboratory

DIGSILENT

ANSYS®

Realize Your Product Promise®

Name of the Equipments

1. 30 Computers and Accessories
2. Printers
3. UPS-20 KVA
4. MATLAB Software
5. DigSILENT Software -25 Users License
6. **ANSYS Simulation Software**

5. Basic Electrical Laboratory



Name of the Equipments

1. Megger
2. Wattmeter
3. Lux Meter
4. Auto transformers
5. Resistive Loads
6. Lamp loads
7. Energy Meter

LABORATORY FACILITIES

STATE OF THE ART FACILITIES



Electrochemical Workstation



Chroma Solar Array Simulator



Advanced Battery Analyzer



Solar Trainer Module

C6



Fluke Power Quality Analyser

DIgSILENT Software

ANSYS Software



Programme Elective (PE) Courses – List of Courses for 18 Credits

Power Systems Domain

1. Power Quality Engineering
2. High Voltage Engineering
3. Advances in Power System
4. Power Plant Engineering
5. High Voltage Direct Current Transmission
6. Load Forecasting and Generation Forecasting
7. Load Dispatching
8. Power Management Reactive
9. Smart Grid

C6

Instrumentation & Control Domain

Core areas in measurement, control, and intelligent systems

1. Virtual Instrumentation
2. Digital Control Systems
3. Introduction to Nonlinear Dynamical Systems
4. Discrete Time Signal Processing
5. Signals and Systems
6. Soft Computing
7. Bio Medical Instrumentation
8. Process Automation

Energy Domain

Sustainable generation, utilization, and management of energy

1. Utilization of Electrical Energy
2. Energy Auditing and Management
3. Electrical Safety & Safety Management
4. Renewable Energy Sources
5. Solar Electric Systems
6. Wind Energy Conversion Systems
7. Generation Planning
8. Solar Photovoltaic Systems

Power Electronics & Drives Domain

1. LED Lighting Technology
2. Flexible AC Transmission Systems
3. Modern Power Converters
4. Automotive Electrical & Electronics Systems
5. Fundamentals of Electric and Hybrid Vehicles
6. Special Electrical Machines
7. Electromagnetic Interference & Compatibility
8. Solid State Drives

C6

Embedded Systems Domain

1. Principles of Robotics
2. Embedded Systems
3. Control of Electric Embedded Drives
4. VLSI System & Design
5. Wearable Electronics

FACULTY DETAILS

S.NO	FACULTY ID	NAME	DESIGNATION	QUALIFICATION
1	TTS 2736	Dr. K. KARUNANITHI	PROFESSOR & HEAD	AMIE., M.E., Ph.D.
2	TTS 2784	Dr. S. RAMESH	PROFESSOR	B.E., M.E., Ph.D.
3	TTS 351	Dr. P. K. DHAL	PROFESSOR	AMIE., B.E., M.E., Ph.D.
4	TTS 1326	Dr. S. SIVAKUMAR	PROFESSOR	B.E., M.E., Ph.D.
5	TTS 2085	Dr. P. CHANDRASEKAR	PROFESSOR	B.Tech., M.E., Ph.D.
6	TTS 2611	Dr. K.VINOTH	PROFESSOR	B.E., M.Tech., Ph.D.
7	TTS 2666	Dr. NIDAGHA KUMAR RAYAGURU	PROFESSOR	AMIE., M.Tech., Ph.D.
8	TTS 3065	Dr. K. KARTHIKUMAR	PROFESSOR	B.E., M.E., Ph.D.
9	TTS 2026	Dr. S. VINOTH JOHN PRAKASH	ASSOCIATE PROFESSOR	B.E., M.E., Ph.D.
10	TTS 3517	Dr. S. AMOSEDINAKARAN	ASSOCIATE PROFESSOR	B.E., M.Tech., Ph.D.
11	TTS 3550	Dr. PRIYA. R.A	ASSOCIATE PROFESSOR	B.E., M.Tech., Ph.D.
12	TTS 1495	Dr. P. SIVARAJ.	ASSISTANT PROFESSOR	B.E., M.E.,Ph.D.
13	TTS 2652	Dr. R. SREEDHAR	ASSISTANT PROFESSOR	B.E., M.Tech., Ph.D.
14	TTS 3514	Dr. P. RAJAKUMAR	ASSISTANT PROFESSOR	B.E., M.E., Ph.D.
15	TTS 3529	Dr. HARI CHARAN NANNAM	ASSISTANT PROFESSOR	B.Tech., M.Tech., Ph.D.
16	TTS 3545	Dr. BABURAO PASUPULETI	ASSISTANT PROFESSOR	B.Tech., M.Tech., Ph.D.
17	TTS 2325	Dr. PRISCILLA WHITIN	ASSISTANT PROFESSOR	B.E., M.Tech.,
18	TTS 2394	Mr. CHITHRAS. T	ASSISTANT PROFESSOR	B.E., M.E.,
19	TTS 3161	Ms. KASTHURI. D	ASSISTANT PROFESSOR	B.E., M.E.,
20	TTS4103	DR.BALAJI.B	ASSISTANT PROFESSOR	B.E,M.E,Ph.D.

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FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
1	Dr. K, Karunanithi	Effective Energy Storage System Strategies—A Review	Journal of Thermal Analysis and Calorimetry	Article	WbS
2		Design and Validation of Super-Capacitor Assisted Photovoltaic Array for Roof-Top Solar Powered Electric Vehicle Applications	Iraqi Journal for Electrical and Electronic Engineering	Article	Scopus
3		Nanotech for Sustainable Afforestation: Enhancing Soil, Water, and Plant Systems	E3S Web of Conferences	Conference	Scopus
4		Design and Analysis of Floating Solar Panel with SUN Position Tracking	E3S Web of Conferences	Conference	Scopus
5		Smart Home and Security Systems: An IoTBased Approach Utilizing ESP 32 and Multisensor Integration	E3S Web of Conferences	Conference	Scopus
6		Optimal design and analysis of environmentally sustainable electric vehicle charging stations	Sustainable and Resilient Infrastructure	Article	W0S
7		Design and Analysis of Solar PV-Fuel Cell Hybrid DC Micro grid System	2nd International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering, RMKMATE 2025	Conference	Scopus

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FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus /WoS
8	Dr. K, Karunanithi	Model Predictive Torque Control for Induction Motor: A Mathematical Model based implementation	International Conference on Electrical Energy Systems, ICEES	Conference	Scopus
9		A Novel Approach for Design and Development of Active Cell Balancing for Electric Vehicle	International Conference on Electrical Energy Systems, ICEES	Conference	Scopus
10		Modelling and Interpretation of A Novel Battery-Motor amalgamated Thermal Management System using rGO/CO3O4 based Hybrid Nano-composite Coolant for Electric	Journal Of Polymer & Composites	Article	WoS
11	Dr. S, Ramesh	Enhancing thermal management in electric vehicle batteries: performance analysis of heat sinks with circular and square pin–fin configurations	Journal of Thermal Analysis and Calorimetry	Article	WoS
12		Energy-Efficient IoT Systems for Smart Cities: Powering the Urban Transformation	2025 3rd International Conference on Communication, Security, and Artificial Intelligence, ICCSAI 2025	Conference	Scopus
13		A Litz Wire-Based Inductor Model for a DC-DC Converter-Fed Single-Phase Inverter	Iraqi Journal for Electrical and Electronic Engineering	Article	Scopus
14		Design and Development of IoT Based Smart Energy Meter	2025 International Conference on Future Technologies, ICFT 2025	Conference	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
15	Dr. P.K. Dhal	Analysis of Radial Distribution Systems Using Particle Swarm Optimization under Uncertain Conditions	Contemporary Mathematics (Singapore)	Article	WoS
16		Enhanced multi-mode control of Z-source virtual synchronous generator for photovoltaic systems using fuzzy logic controller	International Journal of Applied Power Engineering	Article	Scopus
17		Enhancing real-time communication with brain-computer interface technologies	Concepts and Applications of Brain-Computer Interfaces	Book Chpter	Scopus
18		Recompense Load Demand and Improve Power Quality in Wind Connected System Using JNN Based FACTS Device	Optoelectronics, Instrumentation and Data Processing	Article	WoS
19		MPC BASED HYBRID ENERGY STORAGE SYSTEM FED MICRO GRID USING FLC AND ANN METHODS	ARPN Journal of Engineering and Applied Sciences	Article	Scopus
20		Advancing Telestroke Services Technology with Cloud and AI Solutions for Enhanced Care	2024 International Conference on Smart Technologies for Sustainable Development Goals, ICSTSDG 2024	Conference	Scopus
21		AN INNOVATIVE SOLUTION FOR ENHANCED ELECTRIC SHOCK PROTECTION	ARPN Journal of Engineering and Applied Sciences	Article	Scopus
22		Optimized Control of Squirrel cage Induction Motor with Advanced SCADA Integration	2025 International Conf. on RAEEUCCI 2025	Conf.	Scopus

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FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/WoS
23	Dr.P.K. Dhal	Design and analysis of multilevel inverter for electric vehicle by using the ann	ARPN Journal of Engineering and Applied Sciences	Article	Scopus
24		Automated Drone Detection for Surveillance and Security Enhancement	Communications in Computer and Information Science	Conference	Scopus
25		Advancing semiconductor integration: 3D ICs and Perylene-N as superior liner material for minimizing TSV clamour coupling	International Journal of Informatics and Communication Technology	Article	Scopus
26		Effect of pid controller on electric vehicle charging by symmetric interleaving of modular converters	ARPN Journal of Engineering and Applied Sciences	Article	Scopus
27		The Rise of Digital-First Banking: Fintech Innovations Shaping the Future	Proceedings of the 2025 International Conference on, InTech 2025	Conference	Scopus
28		Single-phase grid connected quasi - z- source inverter using anfis controller	ARPN Journal of Engineering and Applied Sciences	Article	Scopus
29		A New Approach to Grid Tied Inverter Design Using Seven Level Topology	INDISCON 2025 - IEEE 6th India Council International Subsections Conference,	Conference	Scopus
30		A Comparative Analysis of 9-Bus System Using Newton-Raphson, Gauss-seidel and Fast Decoupled Method for Power System Studies	INDISCON 2025 - IEEE 6th India Council International	Conference	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
31	Dr.P.K. Dhal	AI-Powered Sustainable Wastewater Recycling Systems for Smart Cities Resource Management	Proceedings of International Conference on Sustainable Communication Networks and Application, ICSCN 2025	Conference	Scopus
32		COMPREHENSIVE STABILITY ASSESSMENT OF TRANSMISSION LINE USING LOAD FLOW ANALYSIS	ARPN Journal of Engineering and Applied Sciences.	Article	Scopus
33		Fuzzy Technique for Active Power Flow Control in Grid-Connected Converters in Unbalanced Environments	ICRTEECT 2025 - 2nd International Conference on Recent Trends in Electrical, Electronics and Computing Technologies	Conference	Scopus
34	Dr. P. Chandra sekar	A Novel DC-DC Boost Converter with Coupled Inductors for High Gain and Smooth Switching	Journal of Advanced Research in Applied Sciences and Engineering Technology	Article	Scopus
35		Critical Evaluation of Indian Electricity Generation Utilities Using Data Envelopment Analysis (DEA)	Lecture Notes in Operations Research	Book Chapter	Scopus
36		Intelligent Solutions for Urban Mobility and Smart Healthcare Infrastructure: Transforming Transportation for Sustainable Cities	Sustainable Civil Infrastructures	Conference	Scopus
37		Critical Analysis of Indian Electric Distribution Utilities Using DEA with Sensitivity Analysis	International Journal of Electrical and Electronic Engineering and Telecommunications	Article	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
38	Dr.P. Chandra sekar	Adaptive Electric Vehicle Charge Controllers Using Deep Reinforcement Learning for Real-Time Optimization	1st International Conference on Advances in Computer Science, Electrical, Electronics, and Communication Technologies, CE2CT 2025	Conference	Scopus
39		Enhancing power quality in distribution networks using three-phase unified power quality conditioner (UPQC)	Environment, Development and Sustainability	Article	WbS
40		IoT-based Renewable Energy Integration and Optimization in Smart Power Grids	Proceedings of the 6th International Conference on Electronics and Sustainable Communication Systems, ICESC 2025	Conference	Scopus
41		Modeling and simulation of anaerobic digestion-gasification integration using MADRL–FAHP	Biofuels	Article	WbS
42		Energy Management of a 6.6 kW PV-Battery DC Microgrid Using Incremental Conductance and Bidirectional Conversions	International Conference on Emerging Technologies in Electronics and Green Energy, ICETEG 2025	Conference	Scopus
43	Dr.S.Siva kumar	Maximizing Electric Vehicle Battery Efficiency: A Multi-Model Machine Learning Approach for RUL Prediction of NMC-LCO Batteries	METALLURGICAL & MATERIALS ENGINEERING	Article	WbS

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
44	Dr. S. Sivakumar	Optimizing Battery Charge Prediction Accuracy Utilizing Machine Learning Methods	METALLURGICAL & MATERIALS ENGINEERING	Article	WbS
45		AI-Powered Optimization of Solar Absorbers: Enhancing Industrial Thermal Energy Harvesting Through Deep Learning	METALLURGICAL & MATERIALS ENGINEERING	Article	WbS
46		Task scheduling algorithm using grey wolf optimization technique in cloud computing environment	Bulletin of Electrical Engineering and Informatics	Article	Scopus
47		Improving SCADA Cyber security: A Deep Learning Technique for Anomaly Detection	2025 IEEE International Conference on Emerging Technologies and Applications, MPSec ICETA 2025	Conference	Scopus
48		Harnessing Photons for Next-Generation Computational Speed and Efficiency	2025 IEEE International Conference on Emerging Technologies and Applications, MPSec ICETA 2025	Conference	Scopus
49		A Novel Three Port Multi-Input Single Inductor DC-DC Bidirectional Boost Converter	2025 IEEE Energy Conversion Congress and Exposition Asia: Shaping a Greener Future with Power Electronics, ECCE-Asia 2025	Conference	WbS
50		A Novel Three Port Multi-Input Multioutput Single Inductor DC-DC Bidirectional Boost Converter	2025 International Conference in Advances in Power, Signal, and Information Technology, APSIT 2025	Conference	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus /WoS
51	Dr.S . Sivakumar	Hybridized Energy Management and Power Forecasting in Grid-Tied Solar Photovoltaic and Wind Turbine with Electric Vehicles	Energy Technology	Article	WbS
52		An effective IoT-based demand response for energy-efficient smart homes	Energy Informatics	Article	Scopus
53		Greater cane rat algorithm and dimension-augmented physics-informed neural network integrated control strategy for converter in grid-tied PV system	Journal of Renewable and Sustainable Energy	Article	WbS
54		EV Battery Charger with Improved Dynamic Voltage Stability Using Enhanced Peafowl Optimization Technique Methods	Journal of Circuits, Systems and Computers	Article	WbS
55		Deep Learning-Driven Fault Detection in EV Powertrain Components	2025 2nd International Conference on New Frontiers in Communication, Automation, Management and Security, ICCAMS 2025	Conference	Scopus
56		Swarm Intelligence-Based Optimisation for Maximising Solar Panel Efficiency	2025 2nd International Conference on New Frontiers in Communication, Automation, Management and Security, ICCAMS 2025	Conference	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
57	Dr.K. Vinoth	Investigating the Impact of Pistacia Vera L. Bio-filler on the Mechanical Properties of a Synthetic Fiber/Epoxy Composite	Malaysian Journal of Chemistry	Article	Scopus
58		Stereoscopic Gated Graph Scalable Quantum Capsule Convolutional Neural Networks with Artificial Hummingbird Algorithm for Social Media Content Classification and	2nd International Conference on Machine Learning and Autonomous Systems, ICMLAS 2025 - Proceedings	Conference	Scopus
59		Internet of Things Enabled Smart Energy Management of Distributed Energy Resources using Self-Adaptive Physics-Informed Neural Network Optimized with Green Anaconda	4th International Conference on Sentiment Analysis and Deep Learning, ICSADL 2025 - Proceedings	Conference	Scopus
60		A Novel Approach to Smart Grid Energy Management Using the Osprey Optimization Algorithm	4th International Conference on Sentiment Analysis and Deep Learning, ICSADL 2025 - Proceedings	Conference	Scopus
61		THE EFFECTIVENESS OF EMERGING TECHNOLOGIES IN PFAS WATER TREATMENT: ENVIRONMENTAL IMPACT AND RISK	Journal of the Balkan Tribological Association	Article	Scopus
62		Multimodal AI-Assisted DC-DC Converter Optimization for Lightweight Electric Aircraft Power Systems	Proceedings of 2025 10th International Conference on Science Technology, Engineering and Mathematics, ICONSTEM 2025	Conference	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
63	Dr. K. Karthi kumar	Efficient Energy Management System for AC–DC Microgrid and Electric Vehicles Utilizing Renewable Energy With HCO Approach	Energy Storage	Article	WoS
64		Design and Simulation of Improved Fast Charging Technique for Modern Electric Vehicle	2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science, SCEECS 2025	Conference	Scopus
65		Analysis of Fifteen and Thirteen-Level Novel Cascaded Inverter Design	SSRG International Journal of Electrical and Electronics Engineering	Article	Scopus
66		Power Saving Systems for Electric Vehicles Using Arudino and PWM Technology	International Conference on Electrical Energy Systems, ICEES	Conference	Scopus
67		Explainable AI for Fault Localization in High-Voltage Electric Marine Propulsion Systems	Proceedings - 2025 International Conference on Recent Innovation in Science Engineering and Technology, ICRISET 2025	Conference	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus /WoS
68	Dr. S. Vinoth John Prakash	Sustainable microgrid system for Easter Island with the least cost and GHG emission-free approach	Environmental Progress and Sustainable Energy	Article	WoS
69		Implementation of Automatic Braking System in Electric Vehicles	2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science, SCEECS 2025	Conference	Scopus
70	Dr .P. Raja kumar	Optimized placement and sizing of solar photovoltaic distributed generation using jellyfish search algorithm for enhanced power system performance	Scientific Reports	Article	WoS
71		Osprey optimization algorithm for distributed generation integration in a radial distribution system for power loss reduction	Scientific Reports	Article	WoS
72		An integrated approach using active power loss sensitivity index and modified ant lion optimization algorithm for DG placement in radial power distribution network	Scientific Reports	Article	WoS
73		Simultaneous photovoltaic distributed generation and capacitor optimization for enhancing performance indices of radial power distribution system	Scientific Reports	Article	WoS

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FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
74	Dr. P. Raja kumar	Optimal Assimilation of Distributed Generation in Radial Power Distribution System Using Hybrid Approach	Iraqi Journal for Electrical and Electronic Engineering	Article	Scopus
75		An Integrated Approach using Loss Sensitivity Factor and Whale Optimization Algorithm for Distributed Generation Allocation	International Journal of Information Technology and Computer Science	Article	Scopus
76		Multi-objective hunter prey optimizer technique for distributed generation placement	International Journal of Applied Power Engineering	Article	Scopus
77		Multi-objective Integrated Approach For Distributed Generation Placement And Sizing To Enhance Performance Of Radial Power Distribution System	Advances in Electrical and Electronic Engineering	Article	WoS
78		LSF Integrated Hippopotamus Optimizer Algorithm for Single DG Optimization in Radial Distribution Power Network	2025 IEEE 2nd International Conference on Green Industrial Electronics and Sustainable Technologies, GIEST 2025	Conference	Scopus
79		Performance Realization of Multiple Inductive Active-Cell Balancing Technique for EV Applications	2025 IEEE 2nd International Conference on Green Industrial Electronics and Sustainable Technologies, GIEST 2025	Conference	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
80	Dr. S. Amose dinakaran	IoT and Smart Sensor Based Waste Management System for Smart Cities	2025 International Conference on Emerging Technologies in Engineering Applications, ICETEA 2025 - Proceedings	Conference	Scopus
81		Electric demand Prediction using LSTM for Medium Term Planning	2025 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2025	Conference	Scopus
82		LSTM-Based Deep Learning Long Term Electric Demand Prediction for Karnataka	2025 International Conference on Data Science, Agents and Artificial Intelligence, ICDSAAI 2025	Conference	Scopus
83		Enhancement of tunnel ventilation and safety measures using PLC and SCADA for train movement	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A	Article	WoS
84		The Scenarios Based Demand Forecasting Using Whale Optimization Algorithm (WOA) for TN Power Network	Lecture Notes in Networks and Systems	Conference	Scopus
85		An Experimental Investigation of Space-Vector Pulse Width Modulated Vienna Rectifier With a Proposed Adaptive Neutral Point Voltage Regulator	International Journal of Circuit Theory and Applications	International Journal of Circuit Theory and Applications	WoS

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
86	Dr. S. Amose dinakaran	Real-time electricity capacity expansion planning using chaotic ant lion optimization by minimizing carbon emission	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A	Article	WoS
87		Paddy leaf disease identification and K-means cluster segmentation using multi-class SVM techniques	Measurement: Sensors	Article	Scopus
88		Forecast the Energy Demand using Deep Learning Based Long Short-Term Memory	International Conference on Electrical Energy Systems, ICEES	Conference	Scopus
89		Application of Walrus Optimization Technique for the Solution of Generation Scheduling in Regulated Environment	2025 IEEE Madhya Pradesh Section Conference, MPCON 2025	Conference	Scopus
90	Dr. Priya. R.A	IoT Driven Transformer Condition Assessment	2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science, SCEECS 2025	Conference	Scopus
91		Advanced MPPT Strategy and Interleaved SEPIC Converter for Efficient Hybrid Micro-grid with IoT Monitoring	2025 8th International Conference on Circuit, Power and Computing Technologies, ICCPCT 2025	Conference	Scopus
92		Multi-State Solar Power Generation Model Integrated RBTS Test System for Adequacy Assessment	Proceedings - 2025 IEEE 1st International Conference on Smart Innovations in Systems, Infrastructure, Mechanical, Power, AI and Computing Technologies, SISIMPACT 2025	Conference	Scopus

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FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
93	Dr. Hari Charan	Performance evaluation of a TOFOSMC-based pump hydro energy storage in the application of grid-connected photovoltaic system	Electrical Engineering	Article	WoS
94		Control and dynamic analysis of a BLDC-based pico-pump hydro energy storage system in a utility-interactive wind-based AC/DC microgrid	Journal of Energy Storage	Article	WoS
95		Experimental Evaluation of a Proposed LQR-LU Optimal Grid Controller in the Applications of Grid-Tied PV Systems	Jordan Journal of Electrical Engineering	Article	WoS
96		Emerging Trends in Battery Management Systems for Electric Vehicle Applications	Energy, Environment, and Sustainability	Book Chapter	Scopus
97		Performance Evaluation of a Single-Phase Dual-Load Simplified Split Source Inverter With High Voltage Gain	International Journal of Circuit Theory and Applications	Article	WoS
98		Closed-Loop Analysis of DC-DC Buck Converter With Dynamic Load Conditions	2025 IEEE 2nd International Conference on Green Industrial Electronics and Sustainable Technologies, GIEST 2025	Conference	Scopus
99	Dr. P. Baburao	Tribological Characteristics of Cu-3%Ti Composite and Investigating the Coating Durability: Novel Approach of Electroless Nickel-Based Coatings	2025 International Conference on Emerging Technologies in Engineering Applications, ICETEA 2025 - Proceedings	Conference	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
100	Dr. P. Baburao	An Innovative Method of Non-Dominated Sorting TLBO for Multi-Objective Short-Term Generation Scheduling of an Integrated Hydro-Thermal Wind Solar System	2025 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2025	Conference	Scopus
101		Preparation and Development of Polymer-Based Dielectric Composite: Influence of Agro-Waste Materials	3rd IEEE International Conference on Industrial Electronics: Developments and Applications, ICIDeA 2025	Conference	Scopus
102		Hot Deformation Characteristics and Tool Wear Morphology of GH4169 Super Alloy: A Frugal Usage of Cryogenic Cooling During Turning Process	Journal of The Institution of Engineers (India): Series D	Article	Scopus
103		Assessment and Electrodeposition of High-Quality Ni-based Thin Films: Enhancing High-Temperature Composites for Robotic Devices	2025 8th International Conference on Circuit, Power and Computing Technologies, ICCPCT 2025	Conference	Scopus
104		Investigation of Electrical Characteristics and Hot Tensile Deformation Behaviour: Novel Assessment of Similar Joints by FSW technique	2025 8th International Conference on Circuit, Power and Computing Technologies, ICCPCT 2025	Conference	Scopus

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/WoS
105	Dr. Priscilla Whitin	Enhanced regulation and optimization techniques for isolated fourth-order l3c resonant converters in solar pv to battery pack conversions	Journal of Energy Storage	Article	WoS
106		IDOL: IoT based intrusion detection using Conv-BiLSTM	Australian Journal of Electrical and Electronics Engineering	Article	Scopus
107		Design and Implementation of Automatic Photovoltaic Panel Cleaning Using IOT	Power Energy and Secure Smart Technologies	Book Chapter	Scopus
108		Solar PV Panel Cleaning Techniques and Dust Accumulation Analysis-Review	Power Energy and Secure Smart Technologies	Book Chapter	Scopus
109		Model Predictive Control based Modeling for Magnetic Resonance Guided High-Intensity Focused Ultrasound Treatment	Proceedings of International Conference on Modern Sustainable Systems, CMSS 2025	Conference	Scopus
110	Dr.T. Chithras	AI-Optimized Tensile Strength Prediction of Biocomposites Using Agricultural Waste	EPJ Web of Conferences	Conference	Scopus
111		Artificial intelligence enabled internet of things for modeling a smart power distribution system	Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A	Article	WoS

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
112	Dr. R.Sreedhar	Enhanced Solar PV System with Battery Storage and Grid Integration Using Cascaded ANFIS-Based MPPT and Self-Lift Luo Converter	3rd IEEE International Conference on Device Intelligence, Computing and Communication Technologies, DICCT 2025	Conference	Scopus
113		Fire Hawk Optimized DVR Strategy for Improved Power Quality and LVRT Performance in PV-Connected Grid	2025 8th International Conference on Circuit, Power and Computing Technologies, ICCPCT 2025	Conference	Scopus
114		Design and Simulate the BLDC motor for Performance Evaluation using ANSYS RMxprt	International Conference on Electrical Energy Systems, ICEES	Conference	Scopus
115		Intelligent Performance Assessment of Multilevel Converter-Based Active Filters in PV-Integrated Smart Grids	14th International Conference on Renewable Energy Research and Applications, ICRERA 2025	Conference	Scopus
116		Modelling and Interpretation of A Novel Battery-Motor amalgamated Thermal Management System using rGO/CO3O4 based Hybrid Nano-composite Coolant for Electric	JOURNAL OF POLYMER & COMPOSITES	Article	WoS

FACULTY RESEARCH PUBLICATIONS

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
118		MLA - Machine Learning Approach for Dependable Battery Condition Monitoring in Electric Vehicles	E3S Web of Conferences	Conference	Scopus
119		PV-based Self-Lift DC-DC Converter for Grid Integration Using Advanced Control Technique	7th International Conference on Energy, Power and Environment, ICEPE 2025	Conference	Scopus
120		Development of a Multi-Level Inverter with Fuzzy Logic Control for Grid-Connected Photovoltaic Systems	2nd International Conference on Electronics, Computing, Communication and Control Technology, ICECCC 2025	Conference	Scopus
121		Advanced SEPIC Converter and Fuzzy Logic Approach for RES Integration in Resilient Microgrids	3rd IEEE International Conference on Device Intelligence, Computing and Communication Technologies, DICCT 2025	Conference	Scopus

FACULTY INNOVATIONS -PATENT

The faculty members have published several patents in various research domains.

PATENT DETAILS				
S.No.	**FACULTY NAME**	**PATENT TITLES**	**Application No.**	**STATUS**
1	Dr. Hari Charan Nannam	Single-phase Voltage Enhanced Inverter with Single Input and Dual Output at High Voltage Gain	202541020045	Published
2		A Novel single-phase capacitor-interleaved 5-level multilevel inverter	202541020047	Published
3		A novel boost-type 9-level inverter with less component count	202541020046	Published
4		A modified single-phase split source inverter to mitigate the commutation problem	202541036421	Published
5		A new Quadrupled-Load connected Multileg converter	202541044301	Published
6		A Novel LC-Based Single-Phase Seven Level Inverter with reduced switch count	202541053125	Published
7		A novel Dual source single-phase seven-level LC based inverter (DSSP-7-MLI) with reduced component count	202541053127	Published
8		A quadrupled-Inductor five-switch seven-level (QIFSSL) Inverter	202541064461	Published
9		A novel single source seven level 3L-C boost inverter	202541074311	Published

FACULTY INNOVATIONS -PATENT

PATENT DETAILS				
S.No.	**FACULTY NAME**	**PATENT TITLES**	**Application No.**	**STATUS**
10	Dr. Hari Charan Nannam	A new Quadrupled-Load connected Multileg converter	202541074312	Published
11		A novel single source seven level inverter with reduced component count and resonant elements.	202541067859	Published
12		A Novel Five Level dual load inverter with reduced component count integrated with LC-network	202541067863	Published
13		A novel seven level diode clamped inverter integrated with LCL network	202541067860	Published
14		A regenerative Multi-resonant gate driver circuit for MOSFET.IGBT switching application to reduce overshoot problem	202541070194	Published
15	Dr.P.K. Dhal	Microbial Fuel Cell and solar hybrid system (MFCSHS)	202541049896	Published
16		Brain Tumour Detection Using CNN With Resnet50	202541072935	Published
17		A Novel Five Switch Diode Clamped Seven Level inverter	202541099284	Published
18	Dr. S Amosedinakaran	Transformer Load Balancing System Under Overload	202541067304	Published

FACULTY INNOVATIONS -PATENT

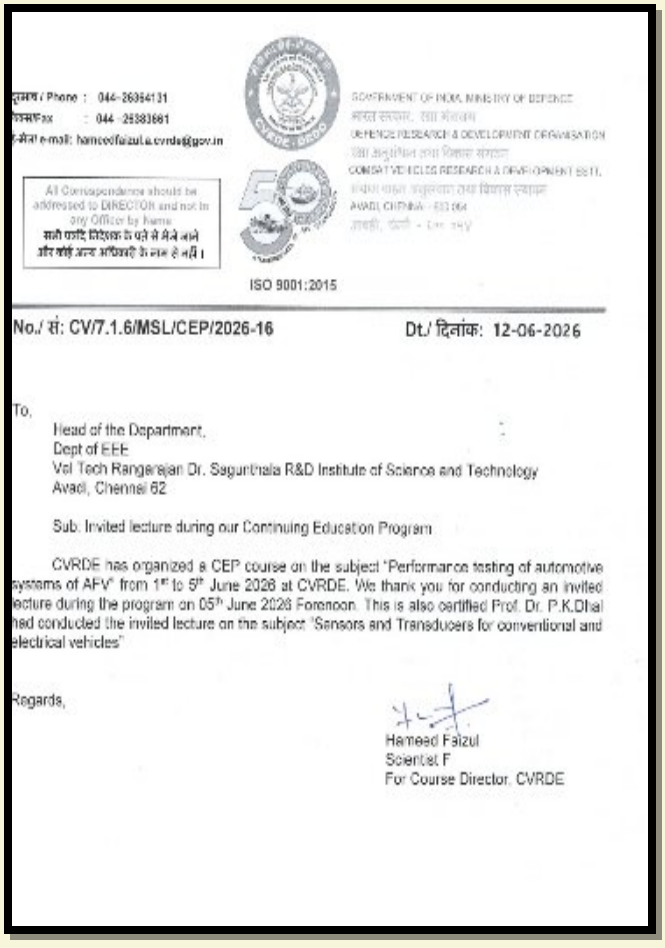
PATENT DETAILS				
S.No.	**FACULTY NAME**	**PATENT TITLES**	**Application No.**	**STATUS**
19	Dr. K. Vinoth	A New ANN-ABA based control scheme for 3-phase synchronous reluctance motor	202541070567	Published
20		Development of Wireless Charging Electric Vehicles Using Fuzzy Controller To Address The Misalignment Problem	202541072476	Published
21	Dr. S. Siva Kumar	Thermal Management System using Peltier module for Battery applications	202541075858	Published
22	Dr. S Vinoth John Prakash	Real-Time Power Theft Identification and Prevention	202541070566	Published
23	Dr. R. Sreedhar	Wireless Power Transmission of Electric Vehicle	202541077636	Published
24	Dr.T. Chithras	Nura-Bot: Development of Machine Learning Based Rover for Autonomous Farming Operations and Assistance	202541077798	Published

Faculty Members as a Resource Person

S.No	Name of Faculty who attended	Title of the program (FDP, Short Term Course, Workshop, seminar)	Location	Date	Location
1	Dr. K. Karunanithi	FDP on Computational Intelligence and Soft computing for Emerging Engineering Ap1plications	Virudhunagar	04.04.2026	P.S.R. Engineering College
2	Dr. S. Ramesh	STTP on Energy Storage system for Renewable Energy and Electric Vehicle	Virudhunagar	28.02.2026	P.S.R. Engineering College
3	Dr. S. Amosedinakaran	FDP on Electrical Technology-Recent Trends and Innovations	Thiruvallur	04.02.2026	T.J.S. Engineering College
4	Dr.P. Rajakumar	FDP on Next-Gen AI powered edge computing Architecture for Embedded IOT	Salem	16.10.2025	R P Sarathy Institute of Technology
5	Dr. Hari Charan Nannam	Guest lecture on Single-stage Power Converters in the Applications of Renewable Energy Systems	Tirunelveli	24.02.2026	Francis Xavier Engineering College
6	Dr. K. Karthikumar	Seminar session on AI powered Patent Drafting	K.K Nagar, Chennai.	28.10.2025	Meenakshi College of Engineering
7	Dr. K. Karthikumar	Gust Lecture on Recent trends in Electric Vehicle	Kumbakonam	20.08.2025	Arasu Engineering College
8	Dr. P. Chandrasekar	Workshop on Applications of Artificial Intelligence in Power Quality	Kalavakkam, Chennai	04.07.2025	SSN College of Engineering

Faculty Members as a Resource Person

Prof. Dr. P. K. Dhal delivered a keynote lecture on the topic, *"Sensors and Transducers in Conventional Systems and Electric Vehicles,"* at the Combat Vehicles Research and Development Establishment (CVRDE), Chennai, on 5 June 2026.



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All Correspondence should be addressed to DIRECTOR and not to any Officer by Name
सभी पत्राचार निदेशक के पदनाम से भेजे जाने और कोई अन्य अधिकारी के नाम से नहीं।

GOVERNMENT OF INDIA, MINISTRY OF DEFENCE
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AVADI, CHENNAI - 600 054

ISO 9001:2015

No./ सं: CV/7.1.6/MSL/CEP/2026-16 Dt./ दिनांक: 12-06-2026

To,

Head of the Department,
Dept of EEE
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
Avadi, Chennai 62

Sub: Invited lecture during our Continuing Education Program

CVRDE has organized a CEP course on the subject "Performance testing of automotive systems of AFV" from 1st to 5th June 2026 at CVRDE. We thank you for conducting an invited lecture during the program on 05th June 2026 Forenoon. This is also certified Prof. Dr. P.K.Dhal had conducted the invited lecture on the subject "Sensors and Transducers for conventional and electrical vehicles"

Regards,

Hameed Faizul
Scientist F
For Course Director, CVRDE



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Faculty Rewards

To strengthen the culture of research, innovation, and scholarly excellence, the institution has allocated a total **Research and Development (R&D) Fund of Rs 3,50,000** to support faculty-led research initiatives. The funding has been distributed among three faculty members based on the scope, significance, and expected outcomes of their proposed research projects. This financial assistance is intended to facilitate advanced research activities, encourage publication in reputed journals, promote innovation, and contribute to the overall academic and technological advancement of the institution.

1. **Dr. P. K. Dhal (TTS351) – Rs. 1,25,000/-**
2. **Dr. P. Rajakumar (TTS3514) – Rs. 1,25,000/-**
3. **Dr. S. Sivakumar (TTS1326) – Rs. 1,00,000/-**

NPTEL Certification Courses

Faculty members actively participate in **NPTEL certification courses** to enhance their subject knowledge, teaching effectiveness, and professional competencies for the year 2025-2026. The details is presented in the following table.

S. No	Name of Faculty who attended	Name of Course Passed	Nature of the program	Course Offered by (agency)	Grade
1	Dr.K. Karthikumar	Advanced Distribution System Analysis and Operation	Online	NPTEL	Elite
2	Dr.R. Sreedhar R	Data Science for Engineers	Online	NPTEL	Elite
3	Dr. S. Amosedinakaran	Cloud Computing	Online	NPTEL	Elite
4	Dr. Baburao Pasupuleti	Cloud Computing	Online	NPTEL	Completed
5	Dr. R. Sreedhar	Cloud Computing	Online	NPTEL	Elite

Prototype /Product Design by Faculty

Faculty members have actively engaged in prototype and product development activities, transforming innovative research ideas into functional models and practical solutions.



Dr. Siva Kumar S

AI based Smart welder Helmet



Dr. Balaji B

Smart Uroflowmetry for Evaluating Urinary Tract Function



Dr. Balaji B

Smart Curtain Rod

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Professional Society Membership

S.No.	Name of the faculty	Society Name
1	Dr. S. Ramesh	ISTE
2	Dr. K. Karunanithi	IEEE, IEI, ISTE
3	Dr. PK Dhal	IEEE, IEI, ISTE
4	Dr. S. Siva Kumar	IEEE, IEI, ISTE
5	Dr. P Chandrasekar	ISTE
6	Dr.K Vinoth	ISTE
7	Dr. NK Rayaguru	IEI
8	Dr. K Karthikumar K	IEEE, IEI, ISTE
9	Dr. S Vinoth John Prakash	ISTE
10	Dr. S Amosedinakaran S	ISTE
11	Dr. RA Priya	ISTE
12	Dr. P Sivaraj	IETE, IEEE
13	Dr. Priscilla Whitin	ISTE

Professional Society Membership

S. No.	Name of the faculty	Society Name
14	Dr. T Chithras	SAEINDIA
15	Dr. R Sreedhar	ISTE
16	Dr. P Rajakumar P	ISTE
17	Dr. Hari Charan Nannam	IEEE
18	Dr. Baburao Pasupuleti	ISTE
19	Dr. B Balaji	IEEE
20	Kasthuri D	ISTE

Student Publications

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
1	Vali, Shaik Mastan ; Sivakumar, S.	A Novel Three Port Multi-Input Single Inductor DC-DC Bidirectional Boost Converter	2025 IEEE Energy Conversion Congress and Exposition Asia: Shaping a Greener Future with Power Electronics, ECCE-Asia 2025	Conference	Scopus
2	Dhal, P.K. ; Prasanna, Vemula Lakshmi	Optimized Control of Squirrel cage Induction Motor with Advanced SCADA Integration	2025 International Conference on Recent Advances in Electrical, Electronics, Ubiquitous Communication, and Computational Intelligence, RAEEUCCI 2025	Conference	Scopus
3	Nannam, Haricharan; Sai Manohar, Majji ; Sai Kiran, Malle ; Babita Muppidi, Angel ; Prasanth Kumar, V.	Performance Evaluation of a Single-Phase Dual-Load Simplified Split Source Inverter With High Voltage Gain	International Journal of Circuit Theory and Applications	Article	WoS
4	Vali, Shaik Mastan ; Sivakumar, S.; Kumar, Rajeev; Sharma, Renu; Goel, Sonali	A Novel Three Port Multi-Input Multioutput Single Inductor DC-DC Bidirectional Boost Converter	2025 International Conference in Advances in Power, Signal, and Information Technology, APSIT 2025	Conference	Scopus

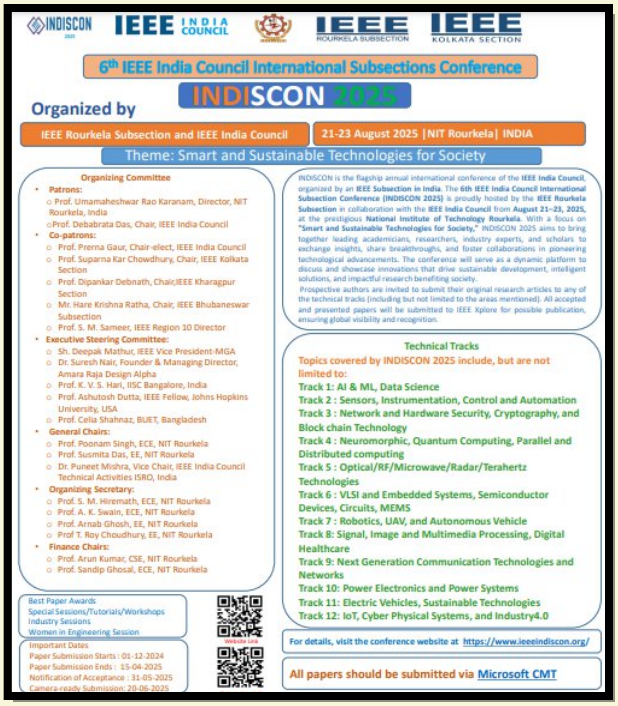
Student Publications

S.No	Authors	Title	Journal/ Conference Name	Article / Conference / Book Chapter	Indexed by Scopus/ WoS
5	Varshini, B. ; Harini, C. ; Priya, R.A.	IoT Driven Transformer Condition Assessment	2025 IEEE International Students' Conference on Electrical, Electronics and Computer Science, SCEECS 2025	Conference	Scopus
6	Manohar, Majji Sai ; Kumar, Prasanth V. ; Dhal, P.K.	A New Approach to Grid Tied Inverter Design Using Seven Level Topology	INDISCON 2025 - IEEE 6th India Council International Subsections Conference, Proceedings	Conference	Scopus
7	Reddy, K. Venkata Narayana ; Dhal, P.K. ; Haseeb, Mohammad; Narashimha, P.Venakta	A Comparative Analysis of 9-Bus System Using Newton-Raphson, Gauss-seidel and Fast Decoupled Method for Power System Studies	INDISCON 2025 - IEEE 6th India Council International Subsections Conference, Proceedings	Conference	Scopus
8	Tejaswini, G. Sai ; Geetha, U. ; Rishith, M.; Karthikumar, K. ; Sankar, P. A. Gowri	Power Saving Systems for Electric Vehicles Using Arudino and PWM Technology	International Conference on Electrical Energy Systems, ICEES	Conference	Scopus

Student Publications

Department of EEE, UG and PG students have presented their project findings in peer reviewed Scopus Indexed International Conferences and Journal contributing reputed Publications.







Students completed in NPTEL Course

S.No.	Name of the Student	VTU No.	NPTEL Corses
1	GURUNATHAN T	VTU21361	Sensors and Actuators
2	HITEN PATNAIK	VTU24510	Sensors and Actuators
3	KOMMALAPATI BHARAT KUMAR	VTU26840	Sensors and Actuators
4	NANDIGAM VENKATESWARA ANIL	VTU26865	Sensors and Actuators
5	PRETHVI ADRIAN S	VTU26940	Sensors and Actuators
6	S.PRAVEEN KUMAR	VTU27041	Sensors and Actuators
7	CHANDRAGIRI YASWA CHAITHANYA	VTU27105	Sensors and Actuators
8	MEESALA THARUN	VTU27140	Sensors and Actuators
9	PONDRU CHARAN	VTU27271	Sensors and Actuators
10	SOHAIB SIDDIQ	VTU27334	Sensors and Actuators
11	SALIPINDI VENKATA AVINASH	VTU28391	Sensors and Actuators
12	VADDEMANI HARSHAVARDHAN REDDY	VTU28392	Sensors and Actuators
13	KOTTAPALLI VISHNU VARDHAN REDDY	VTU28791	Sensors and Actuators
14	KOMMA CHARANESWAR REDDY	VTU28794	Sensors and Actuators
15	ADISETTI HARINI	VTU28796	Sensors and Actuators

Students completed in NPTEL Course

S.No.	Name of the Student	VTU No.	NPTEL Corses
1	GURUNATHAN T	VTU21361	Sensors and Actuators
2	HITEN PATNAIK	VTU24510	Sensors and Actuators
3	KOMMALAPATI BHARAT KUMAR	VTU26840	Sensors and Actuators
4	NANDIGAM VENKATESWARA ANIL	VTU26865	Sensors and Actuators
5	PRETHVI ADRIAN S	VTU26940	Sensors and Actuators
6	S.PRAVEEN KUMAR	VTU27041	Sensors and Actuators
7	CHANDRAGIRI YASWA CHAITHANYA	VTU27105	Sensors and Actuators
8	MEESALA THARUN	VTU27140	Sensors and Actuators
9	PONDRU CHARAN	VTU27271	Sensors and Actuators
10	SOHAIB SIDDIQ	VTU27334	Sensors and Actuators
11	SALIPINDI VENKATA AVINASH	VTU28391	Sensors and Actuators
12	VADDEMANI HARSHAVARDHAN REDDY	VTU28392	Sensors and Actuators
13	KOTTAPALLI VISHNU VARDHAN REDDY	VTU28791	Sensors and Actuators
14	KOMMA CHARANESWAR REDDY	VTU28794	Sensors and Actuators
15	ADISETTI HARINI	VTU28796	Sensors and Actuators

Students completed in NPTEL Course

S.No.	Name of the Student	VTU No.	NPTEL Courses
16	AUSTIN ANTO V	VTU28815	Sensors and Actuators
17	SIBYALA VIKAS	VTU29637	Sensors and Actuators
18	RAMIREDDYGARI RUSHI KESHAVA REDDY	VTU29649	Sensors and Actuators
19	GADIBAVI THARUNTEJ REDDY	VTU29683	Sensors and Actuators
20	BANALA SUBASH CHANDRA BOSE	VTU29863	Sensors and Actuators
21	GIDDALURU VEERA JAGADEESWAR	VTU30357	Sensors and Actuators
22	BANDARU BULLI VENKATA SAI	VTU30418	Sensors and Actuators
23	VULAVALA HIMA VARDHAN REDDY	VTU30446	Sensors and Actuators
24	RAVALURU SAI SARAN	VTU30461	Sensors and Actuators
25	DESAM PARTHASARADHI REDDY	VTU30500	Sensors and Actuators
26	NANGUNURI UMESH	VTU30649	Sensors and Actuators
27	BADU CHENNAYA GARI THARUN KUMAR REDDY	VTU30661	Sensors and Actuators
28	VETRI SELVAN J	VTU30673	Sensors and Actuators
29	ANUYOGITHA G	VTU30687	Sensors and Actuators
30	SANANDHARAJA V G	VTU30719	Sensors and Actuators

Students completed in NPTEL Course

S.No.	Name of the Student	VTU No.	NPTEL Courses
31	S VIJAY KRISHNAN	VTU33788	EV - Vehicle Dynamics and Electric Motor Drives
32	RAGUL N	VTU24332	EV - Vehicle Dynamics and Electric Motor Drives
33	PANDIGUJAN R	VTU24806	EV - Vehicle Dynamics and Electric Motor Drives
34	PADMACHARAN V	VTU27356	EV - Vehicle Dynamics and Electric Motor Drives
35	VISVESHVAR S	VTU27376	EV - Vehicle Dynamics and Electric Motor Drives
36	KANAPARTHI BHARATH CHANDRA SAI	VTU28353	EV - Vehicle Dynamics and Electric Motor Drives
37	THURPUNATI SUDHARSHAN	VTU29643	EV - Vehicle Dynamics and Electric Motor Drives
38	CHAPPIDI BHARGAVI	VTU29725	EV - Vehicle Dynamics and Electric Motor Drives
39	MUKESH KANNA K A	VTU32149	EV - Vehicle Dynamics and Electric Motor Drives
40	ARJUN BALU JAGADEESH	VTU33746	EV - Vehicle Dynamics and Electric Motor Drives
41	J KALYAN	VTU23533	Network Security
42	SAHAVATHULLAH B	VTU32466	Network Security
43	RAMYA A	VTP4797	Research Methodology
44	SHRI KANT KUMAR	VTP4837	Research Methodology
45	NIKITA SHANKER	VTP4851	Research Methodology
46	PRATHEEPAN G	VTP4852	Research Methodology
47	JAIGANESH. E	VTP4861	Research Methodology

Students completed in NPTEL Course

S.No.	Name of the Student	VTU No.	NPTEL Courses
48	SAHAVATHULLAH B	VTU32466	Cloud Computing
49	J KALYAN	VTU23533	Cloud Computing
50	THADURI REKHA	VTU25505	Cloud Computing
51	GOTTAM DIVYA	VTU26759	Cloud Computing
52	SUDDAPALLI HARISH	VTU26793	Cloud Computing
53	SHAIK RAHAMTHULLA	VTU26822	Cloud Computing
54	KAVALI DHANUSH	VTU26889	Cloud Computing
55	KOTHA ARAVIND KUMAR	VTU26919	Cloud Computing
56	KANCHARLA VENKATA SIVA SRIRAM	VTU26924	Cloud Computing
57	ARSHADH YADAV K	VTU26934	Cloud Computing
58	KOTHILLA DHANUSH KUMAR	VTU26949	Cloud Computing
59	MADDERLA VENKATA VINAY	VTU26962	Cloud Computing
60	AKASH R	VTU27035	Cloud Computing
61	ASHWIN R	VTU27036	Cloud Computing
62	ANUJA KUMARI	VTU27077	Cloud Computing
63	MALLA PAVAN BALAJI	VTU27127	Cloud Computing
64	PUVVADA SRAVYA	VTU27139	Cloud Computing

Students completed in NPTEL Course

S.No.	Name of the Student	VTU No.	NPTEL Courses
65	GUDA ARAVIND KUMAR REDDY	VTU27142	Cloud Computing
66	PANGA VEERAPRATAP	VTU27152	Cloud Computing
67	PILLA ROSHAN VISHNU	VTU27227	Cloud Computing
68	METLA RAJA SEKHAR	VTU27251	Cloud Computing
69	PONDRU CHARAN	VTU27271	Cloud Computing
70	DEVAGUDI RUPAK	VTU27313	Cloud Computing
71	TELLAMEKALA PRAVEEN	VTU27318	Cloud Computing
72	VIGNESH P	VTU27365	Cloud Computing
73	BALLA BENARJI	VTU27370	Cloud Computing
74	BHUMIREDDY VENKATA HARISH	VTU29632	Cloud Computing
75	JUJJURI SRAVANTHI DEVI	VTU29723	Cloud Computing
76	SEELAM RAMA DHANUNJAYA REDDY	VTU29804	Cloud Computing
77	GOTLURU MANI DEEP REDDY	VTU30417	Cloud Computing
78	PARELLA DIVYAKSHITHA	VTP4501	Integrated Circuits and Applications
79	RAHUL. D	VTP4606	Integrated Circuits and Applications
80	DAKYRMEN KONGRI	VTP4536	Renewable Energy Engineering: Solar, Wind And Biomass Energy Systems
81	JEFRIN KENNEDY J	VTP4807	Renewable Energy Engineering: Solar, Wind And Biomass Energy Systems

Students completed in NPTEL Course

S.No.	Name of the Student	VTU No.	NPTEL Courses
82	PRETHVI ADRIAN S	VTU26940	Analog IC Design
83	RAHUL. D	VTP4606	Integrated Circuits, Mosfets, OP-Amps and their APPLICATIONS
84	DAKYRMEN KONGRI	VTP4536	Smart Grid: Basics to Advanced Technologies
85	SALADI A R V N RAO	VTP4380	Effective Writing
86	JAGANKARTHIK T	VTP4492	Effective Writing
87	PARELLA DIVYAKSHITHA	VTP4501	Effective Writing
88	DAKYRMEN KONGRI	VTP4536	Effective Writing
89	RAHUL. D	VTP4606	Effective Writing
90	JAIGANESH. E	VTP4861	Effective Writing
91	ASHWINI	VTP4886	Effective Writing

A total of 91 students have successfully completed NPTEL/SWAYAM online certification courses aligned with their program elective and open elective courses.

Placement- 2025-26

S. No.	Name of the Student	VTU No.	Company Placed
1	Ankita Parida	24241	Airtel
2	Kalluru Nithin Sai Chowdary	27293	Asbri Energy & Enviro Technologies
3	Yarragudi Muktheswara Reddy	27146	Asbri Energy & Enviro Technologies
4	Koduru Venkata Narayana Reddy	26699	CMR Green
5	A.Shashank	23334	FOX Solution
6	Malle Sai Kiran	27154	GE Tek Electronics
7	Vurimella Ranjith	27028	GE Tek Electronics
8	Adavala Likithishwar	27109	Haitian Plastics
9	Akash R	27035	Haitian Plastics
10	G Uma Mahesh Vtureddy	26971	Haitian Plastics
11	Paradarami Vamsidhar	27012	Haitian Plastics
12	Sanjeeva Sunil Kumar Jillela	27023	Haitian Plastics
13	Tanga Pavan Kumar	27197	Haitian Plastics
14	Pendlimarri Priyanka	26969	IMEG
15	Gowtham Sai Kumar Vurimi	27120	Innowell Engineering
16	A Vinay Kumar	27121	Megha Engg
17	A.Rajesh	27176	Megha Engg
18	Ashwin R	27036	Megha Engg
19	I Mallikarjuna Reddy	27031	Megha Engg
20	Kamatham Charan	27164	Megha Engg
21	Pedalanka Phanindra	27161	Megha Engg
22	Sujay M	23857	Megha Engg
23	Thanveer Ahamed Z	21581	Megha Engg
24	Petlu Venkata Narasimha	27018	Polycab
25	Harini Chandran	24247	Schneider Electric
26	Varshini Bandlamudi	22378	Schneider Electric
27	Kotte Chandana	27044	Siemens
28	Panga Veerapratap	27152	Siemens
29	Vemula Lakshmi Prasanna	26997	Siemens
30	Mohammad Haseeb	26705	TCS
31	Akula Banniswara Reddy	27033	Torrent Gas
32	Ravuri Manjunadh	27174	United Caravan Trading and Contracting
33	Suda Venkata Jaswanth Reddy	27147	United Caravan Trading and Contracting
34	Vamitha L	24263	United Caravan Trading and Contracting
35	Tadipathri Harshavardhan Reddy	27155	Yuzhan Technology

STUDENT ACCOMPLISHMENTS

Students Harini C, Vamita L. and B. Varshhini achieved a remarkable ccomplishment by securing the First Prize in the National-Level Project Competition, *Vriddheee–2026*.



VIDYAVARDHAKA SANGHA®, MYSURU

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

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VVCE

IEEE PES Power & Energy Society® BANGALORE CHAPTER

IEEE POWER ELECTRONICS SOCIETY Bangalore Chapter

IEEE IES Bangalore Chapter

IEEE PES Power & Energy Society® Vidyavardhaka College of Engineering Student Branch Chapter

IEEE POWER ELECTRONICS SOCIETY Powering a Sustainable Future Vidyavardhaka College of Engineering Student Branch Chapter

IEEE Industrial Electronics Society Vidyavardhaka College of Engineering Student Branch Chapter

IEEE BANGALORE SECTION

INSTITUTION'S INNOVATION COUNCIL IIC - VVCE

CERTIFICATE

This is to certify that **HARINI.C , B.VARSHINI and Dr. PRIYA R A** of **VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY TAMIL NADU** has won **FIRST PRIZE** for the project titled **DESIGN AND IMPLEMENTATION OF AN ARCHIMEDES WIND TURBINE (AWT) WITH EDGE INTELLIGENCE** in the "**National Level Project Competition - VriddhEEE 2026**" organized by the **Department of Electrical and Electronics Engineering, Vidyavardhaka College of Engineering, Mysuru** in association with **IEEE-PES, IEEE-PELS, IEEE-IES, IIC-VVCE** Student Chapters on **28th March 2026 .**

Mr. Avinash R & Mr. Goutham B
Coordinators

Dr. Gopala Reddy K
Professor and Head, EEE

Dr. B Sadashive Gowda
Principal, VVCE, Mysuru.

Vel Tech University students has been participated and presented research paper in IEEE international conference , ODICON-2026 , organised by SOA university during 20-21 Feb. 2026.



ODICON 2026

AIC-SOA FOUNDATION

Paper ID
10

Certificate of Participation

This is to certify that the paper entitled

Performance Analysis of Battery Powered DC-DC Buck-Boost Closed-Loop Converter with Dynamic Load Conditions

authored by

Angel Babita Muppidi, Vinoth K, Hari Charan Nannam, Koushik Gottimukkula and Sai Manohar Majji

was presented at the **4th Odisha International Conference on Electrical Power Engineering, Communication and Computing Technology (ODICON-2026)**, organized by **Department of Electrical Engineering, Institute of Technical Education & Research**, Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India during **20th – 21st February, 2026.**

Prof. (Dr.) P. K. Nanda
Vice Chancellor, SOA

Prof. (Dr.) M. K. Mallick
Finance Chair, ODICON 2026

Prof. (Dr.) R. Sharma
General Chair, ODICON 2026

Prof. (Dr.) M. K. Debnath
General Chair, ODICON 2026

IEEE Advancing Technology for Humanity

IEEE BHUBANESWAR SECTION

pels IEEE POWER ELECTRONICS SOCIETY

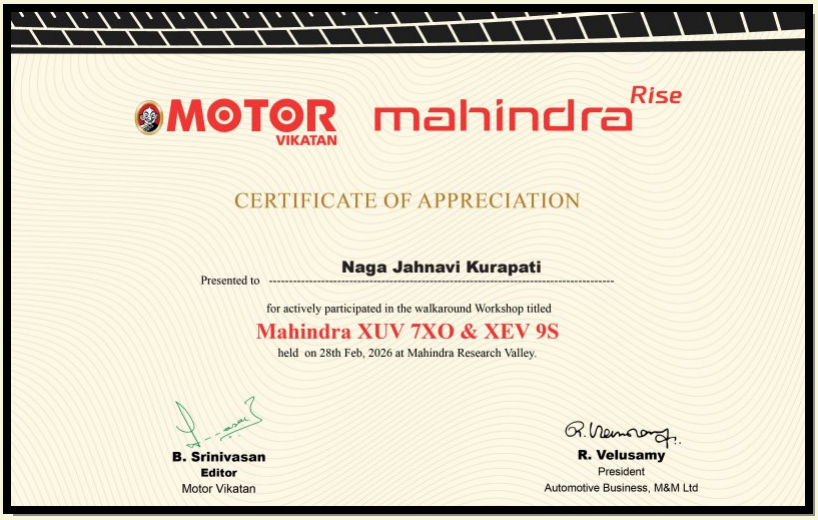
IEEE PES Power & Energy Society®

IAS IEEE INDUSTRY APPLICATIONS SOCIETY

Anusandhan National Research Foundation

STUDENT ACCOMPLISHMENTS

Students N.J Kurapati and K. Divya actively participated in the workaround workshop organised by Mahindra Motor Viktan in 2026.


MOTOR VIKATAN mahindra Rise

CERTIFICATE OF APPRECIATION

Presented to Naga Jahnavi Kurapati

for actively participated in the walkaround Workshop titled

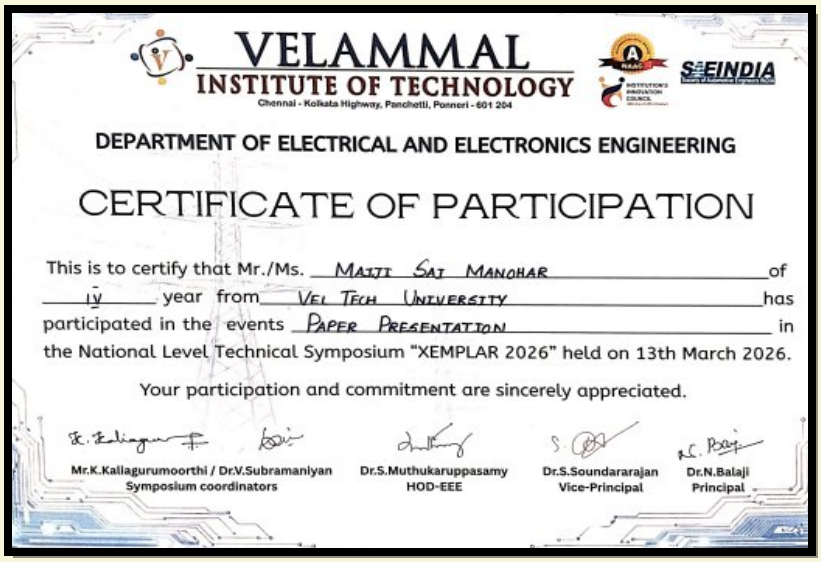
Mahindra XUV 7XO & XEV 9S

held on 28th Feb, 2026 at Mahindra Research Valley.

B. Srinivasan
Editor
Motor Vikatan

R. Velusamy
President
Automotive Business, M&M Ltd

Vel Tech University 4th year EEE student M.S. Manhor, Chitaranjan N. have participated in the paper presentation in the national level technical symposium XEMPLAR-2026 held on 13 March 2026.


VELAMMAL INSTITUTE OF TECHNOLOGY

Chennai - Kolkata Highway, Panchetti, Ponneri - 601 204

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. MAJJI SAI MANOHAR of IV year from VEL TECH UNIVERSITY has participated in the events PAPER PRESENTATION in the National Level Technical Symposium "XEMPLAR 2026" held on 13th March 2026.

Your participation and commitment are sincerely appreciated.

Mr.K.Kallagurumoorthi / Dr.V.Subramaniyan
Symposium coordinators

Dr.S.Muthukaruppasamy
HOD-EEE

Dr.S.Soundararajan
Vice-Principal

Dr.N.Balaji
Principal

Mr. Rajasekar P. has successfully achieved the courses of SAKURA SCIENCE exchange programme by Japan Sc. and Technology Agency in the year Jan. 26.


CERTIFICATE

OF ACHIEVEMENT

~ Invitation Program ~

This is to certify that

RAJASEKAR PANDIGUJAN

has successfully achieved the course of SAKURA SCIENCE Exchange Program administered by Japan Science and Technology Agency.

Kurume Institute of Technology ran the course from January 25 to January 31 in 2026.

We welcome you as a member of the Sakura Science Club.

HASHIMOTO KAZUHITO
PRESIDENT
JAPAN SCIENCE AND TECHNOLOGY AGENCY

SAKURA SCIENCE

Date: January 31, 2026

SSC ID: 25101089

64

STUDENT ACCOMPLISHMENTS

Students V. Vardhan Reddy participated in the webinar organised by Educare Taiwan on Semiconductor and its aspect in Nov. 2025 .





Vel Tech University EEE student P. Sarvya. have participated and presented an articled on Online Banking Application in the international Conference ICCII-2026 on 27-28 March 2026.

Mr. Mukesh Kanna KA. has attended EV workshop conducted by EEE Association, SRM inst. Of Sc. Technology held on 26 Feb. 2026.



STUDENT ACCOMPLISHMENTS

Students actively participated in technical hackathons, competitions, webinars, and conferences, demonstrating their knowledge and innovative capabilities. Their outstanding performances resulted in several prizes, awards, and appreciations at various levels.


SRM
School of Electrical and Electronics Engineering
SRM Institute of Science and Technology
Kattankulathur
Elektra'26
CERTIFICATE
OF PARTICIPATION
This is to certify that Mr./Ms. PANDIGUJAN
from VELTECH UNIVERSITY has participated in the TECHNICAL QUIZ conducted by EEE Association, Department of Electrical and Electronics Engineering, Institute of Science and Technology, Kattankulathur, held on 25th February 2026.
Dr. Pradeep V
EEE Association Incharge
Dr. Sridhar R
HoD/EEE


The Department of Electrical and Electronics Engineering
SVCE Sri Venkateswara College of Engineering
Autonomous - Affiliated to Anna University
Pennalur, Sriperumbudur, Tamil Nadu | www.svce.ac.in
40 Years of Excellence
Department of Electrical and Electronics Engineering
Certificate of Participation
This is to certify that Mr./Ms. M. PAVAN BALAJI studying in III Year EEE
Vel Tech University has successfully completed the Internship Program on 'Li-ion Battery Technology for Electric Vehicle Applications' organized by the Department of Electrical and Electronics Engineering, Sri Venkateswara College of Engineering during
29th December 2025 to 03rd January 2026.
Dr.S.G.Bharathidassan
AHOD & Coordinator
Dr.Sudhakar KB
Head of the Department
Dr.S.Ganesh Vaidyanathan
Principal
Top Ranked Affiliated Institution in Tamil Nadu
5/5 Star Rated Innovation Cell
Top Performer
Recognized Incubation Centre
Certified Organization
Accreditations

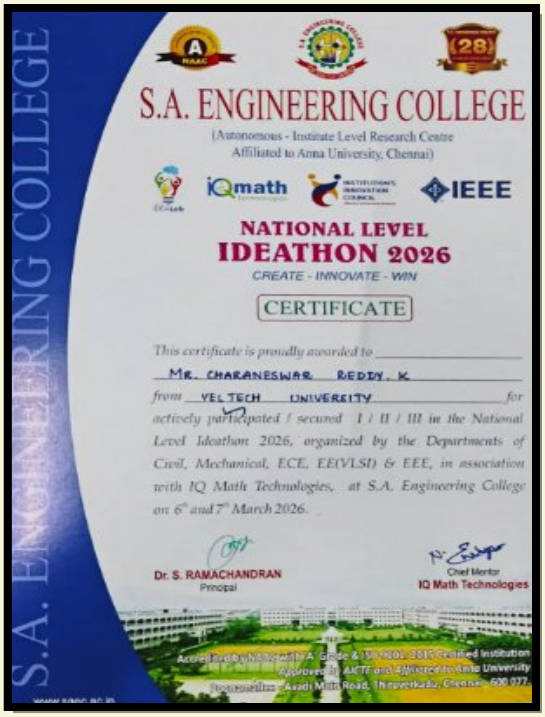

CERTIFICATE OF PARTICIPATION
Entrepreneurship Awareness Programme
Ministry of Micro, Small and Medium Enterprises, Government of India
MSME
This is to certify that Komma Charaneswar Reddy has successfully participated in the MSME-sponsored Entrepreneurship Awareness Programme 2026 conducted at CSIR- Central Electronics Engineering Research Institute, Pilani, Chennai Centre on 10/03/2026, and actively engaged in sessions on entrepreneurship, startups, MSME ecosystem, and business skills.
Dr. L. Padmavathi
Program Coordinator
Dr. C. Kumaravelu
Scientist – G & Scientist - in - Charge


Certificate
OF PARTICIPATION
THIS CERTIFICATE IS PROUDLY AWARDED TO
VETRI SELVAN J
FOR PARTICIPATING IN THE DIGITAL MARKETING WEBINAR WHICH WAS HELD ON 12 December 2025
AJEETH R
CEO
N·S·D·C National Skill Development Corporation


RV Institute of Technology and Management
CERTIFICATE OF PARTICIPATION
AIKYAM 2026
National Level IPR Conclave
SURYA ARUNACHALAM
of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology has successfully participated in Aikyam 2026 - National Level IPR Conclave held on 16th April 2026 at RV Institute of Technology & Management, Bengaluru.
Dr. Shruthi P
Faculty Coordinator
Dr. Vinoth Kumar M
HOD of ISE
Dr. Malini M Patil
Dean CSE Cluster
Dr. Nagashettappa Biradar
Principal


TOK TECHKNOTS
VELS
PRAVESHA 2K26
CERTIFICATE OF ACHIEVEMENT
This is to certify that
Mr./Ms. SURYA A
has presented a paper titled Design and Implementation of Chiplet-Based Modular AI has secured First / Second / Third Prize in the National Level Symposium "PRAVESHA 2K26", organized by the Department of CSE, DS & IT, School of Engineering, VELS Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram held on 09th April 2026.
Dr.A.Packialatha
HOD - DS & IT
Dr. S. Sridevi
HOD - CSE
Dr.K.Kalaivani
Director - CSE
Dr. G. Arun
Dean - SoE

STUDENT ACCOMPLISHMENTS



S.A. ENGINEERING COLLEGE

(Autonomous - Institute Level Research Centre
Affiliated to Anna University, Chennai)

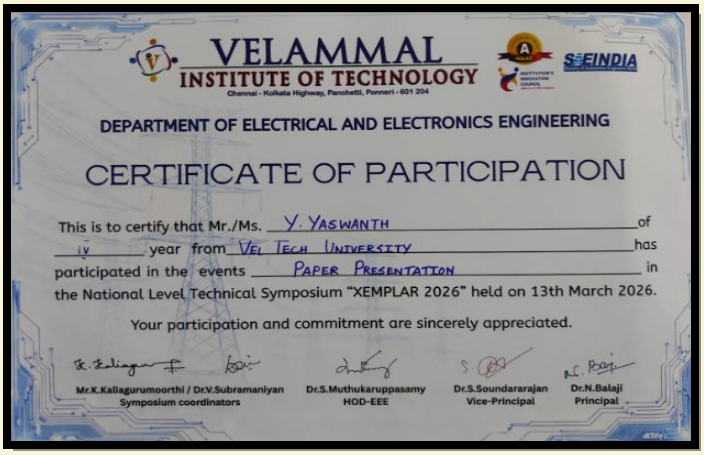
NATIONAL LEVEL
IDEATHON 2026
CREATE - INNOVATE - WIN

CERTIFICATE

This certificate is proudly awarded to
MR. CHARANESWAR REDDY. K
from VEL TECH UNIVERSITY for
actively participated / secured I / II / III in the National
Level Ideathon 2026, organized by the Departments of
Civil, Mechanical, ECE, EE(VLSI) & EEE, in association
with IQ Math Technologies, at S.A. Engineering College
on 6th and 7th March 2026.

Dr. S. RAMACHANDRAN
Principal

Chief Mentor
IQ Math Technologies



VELAMMAL
INSTITUTE OF TECHNOLOGY
Chennai - Kolkata Highway, Panchetti, Ponneri - 601 204

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

CERTIFICATE OF PARTICIPATION

This is to certify that Mr./Ms. Y. YASWANTH of
IV year from VEL TECH UNIVERSITY has
participated in the events PAPER PRESENTATION in
the National Level Technical Symposium "XEMPLAR 2026" held on 13th March 2026.

Your participation and commitment are sincerely appreciated.

Mr.K.Kallagurumoorthi / Dr.V.Subramaniyan
Symposium coordinators

Dr.S.Muthukaruppasamy
HOD-EEE

Dr.S.Soundararajan
Vice-Principal

Dr.N.Balaji
Principal



NAGARJUNA ENGINEERING CONSTRUCTIONS
Mechanical, Civil, Electrical & Logistics
ISO 9001-2008 CERTIFIED
We Make it Happen ...

Date : - 09-07-2025.

CERTIFICATE FOR INDUSTRIAL TRAINING

This is to certify that Mr. K.CHARANESWAR REDDY a student of B.Tech fourth year degree course bearing I.D.No : VTU28794 of Vel Tech Rangarajan Dr. Sagunthala R& D Institute of Science and Technology, Chennai has successfully completed in the Internship training of " Electrical and Electronics Engineering " from 09-06-2025 to 08-07-2025 at Nagarjuna Engineering Constructions, C/o Arjas Steel Pvt Limited, Jambulapadu(v),Tadipatri(M), Anantapur(D) A.P.

During the period of the internship his conduct and character were Satisfactory. We wish to his all success in his future endeavors.

For Nagarjuna Engg. Constructions

SITE INCHARGE

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Head Office
Plot No. 403,9th Floor, Mahaa Nilayam
Ramji Nagar, Nellore (A.P)-524003

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Tadipatri, Anantapur Dist (A.P)



RV Institute of Technology and Management

RUNNER
AIKYAM 2026
National Level IPR Conclave

SURYA

of VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D IST
is hereby recognized as *Runner* of *Aikyam 2026* - National Level IPR Conclave organized by department of ISE & IPR Cell-RVITM held on 16th April 2026 at RV Institute of Technology & Management, Bengaluru.

Dr. Shruthi P
Faculty Coordinator

Dr. Vinoth Kumar M
HOD of ISE

Dr. Malini M Patil
Dean CSE Cluster

Dr. Nagashettappa Biradar
Principal

67

Higher Studies

Several students have pursued higher education in prestigious institutions and organizations by enrolling in M.Tech. and Ph.D. programs. Their continued academic progression reflects the institution's commitment to fostering research aptitude, lifelong learning, and professional excellence.

S,No	Name of Student	VTU no	Year	Name of the Degree
1	Ashwin Vinod	VTU24303	2025	Master in Business Administration
2	M Angel Babita	VTP3866	2025	Doctor in Philosophy
3	Sharavanan	VTP4170	2025	Doctor in Philosophy
4	M.RISHITH	VTU24030	2025	Creative Multimedia of Fine Arts (Affliated to JNAFA University), India

One of our student **Majji Sai Manohar** received the prestigious **Taiwan Ministry of Education (MOE) Scholarship** in **May 2026**, earning the opportunity to pursue a **Master's degree in Taiwan**.

ALUMNI

Prominent Alumni - UG



Mr. Kishore Sundrajan (2001)
Google, USA



Mr. K.Narashima Rao (2018)
National United University, Taiwan

Mr. Karthik Kaveriselvan (2006)
Latham Pool, USA



Ms. Lakshmi Chellapan (2018)
University of Texas, USA





Mr. Vasantha Kumar (2009)
Donyati, Bangalore



Mr. M. Jeevarathinam (2019)
TITAN

Dr. M. Suman (2013)
MNNIT, Allahabad



Mr. Rishab Mahato (2021)
Pricewaterhouse Coopers





Mr. Ujjwal Singh (2017)
Lieutenant, Indian Army



Ms. Shambhavi (2021)
Capgemini

ALUMNI IN CENTRAL / STATE / PUBLIC / PRIVATE SECTORS

INDIAN ARMY

HYUNDAI MOBIS

TITAN

Google

इसरो ISRO

INDIAN RAILWAYS

Reliance Industries Limited

EIL ENGINEERS INDIA LIMITED A Navratna Company

ABB

Schneider Electric

GE General Electric

BOSCH

LIC भारतीय जीवन बीमा निगम LIFE INSURANCE CORPORATION OF INDIA

Event/Workshop/FDP Organized

Department of EEE in association with Office of Industry Relations offered a Value-Added Course **on Advances in Power System Automation"** during December 2025 to March 2026. The course was conducted by **Prof. N. Murugesan, Professor of Practice, CEO of Ohm Energy Services, and Former Director General of the Central Power Research Institute (CPRI).**



Department of EEE in association with Office of Industry Relations organized industrial visits to **SIPCOT Industrial Park, Irungattukottai and Delphi – TVS Technologies Ltd., Chennai.**



Event/Workshop/FDP Organized

Department of EEE organized Value-Added Course on **"Modelling and Simulation of Electrical Machines using ANSYS Software"** on 29th and 31st January 2026.



Department of EEE organized a Six-Days Online **Faculty Development Program on "Advanced Perspectives in Renewable Energy Technologies for Sustainable Power Systems"** during 9th – 15th February 2026.



Department of EEE in association with Human Resource Development Centre organized three days skill development programme on "**Introduction to Python Programming"** for Non-Teaching Staffs during 10th – 13th January 2026.



Event/Workshop/FDP Organized

Department of EEE students participated in the **MSME's Entrepreneurship Awareness Programme – 2026** organized by **CSIR – CEERI, Chennai** on 10th March 2026.



Department of EEE organized a **Value-Added Course on "Basics of MATLAB Programming and Simulink For Electrical Engineering" during 4th - 8th May 2026.** The course was conducted by a Faculty **Dr. P. Rajakumar, Assistant Professor/EEE.**



Department of EEE organized a **Seminar on "Growth of India's Power Sector and Career Opportunities in the Energy Landscape" on 6th February 2026.** The seminar was delivered by **Smt. S. Amirthavalli, Director (Southern Region), National Power Training Institute (NPTI).**

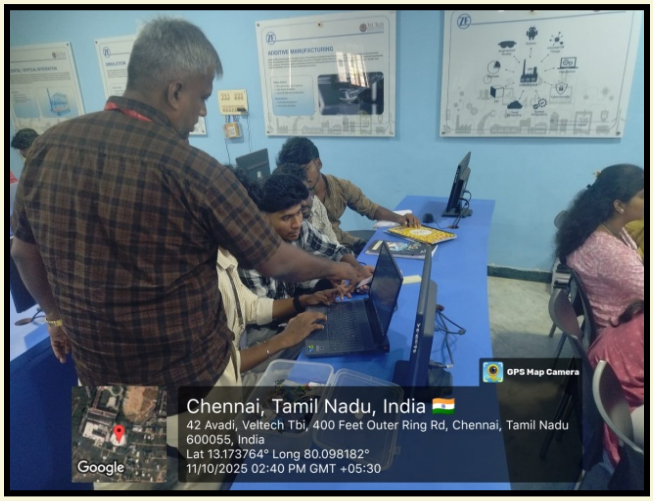


Event/Workshop/FDP Organized

Department of EEE in association with Office of International Relations organized a **Value-Added Course on "Sensor Integration with Internet of Things" during 17th - 23rd February 2026.** The course was conducted by **Dr. Thennarasan Sabapathy, Universiti Malaysia Perlis, MALAYSIA.**



Department of EEE in association with **Centre of Excellence for Smart Factory Initiatives** organized a **Value Added Course (VAC)** on "Internet of Things" during 9th – 11th October 2025.



Department of EEE organized **Two-Day Hands-on Workshop on RTOS Programming using AppCOE with Raspberry Pi, Arduino and Cortex** on 15th and 16th October 2025.



Event/Workshop/FDP Organized

Department of EEE organized **Two-Day Hands-on Workshop on "From Classroom to Core: Hands –on Electric Motor Simulation for Industry Readiness"** on 10th and 11th October 2025.

No. of Participants: 40



Department of EEE organized a Six-Days Online **Faculty Development Program on "Intelligent Power Electronics and Cyber-Physical Energy Systems for a Sustainable Future"** during 17th – 22nd November 2025.

No. of Participants: 51



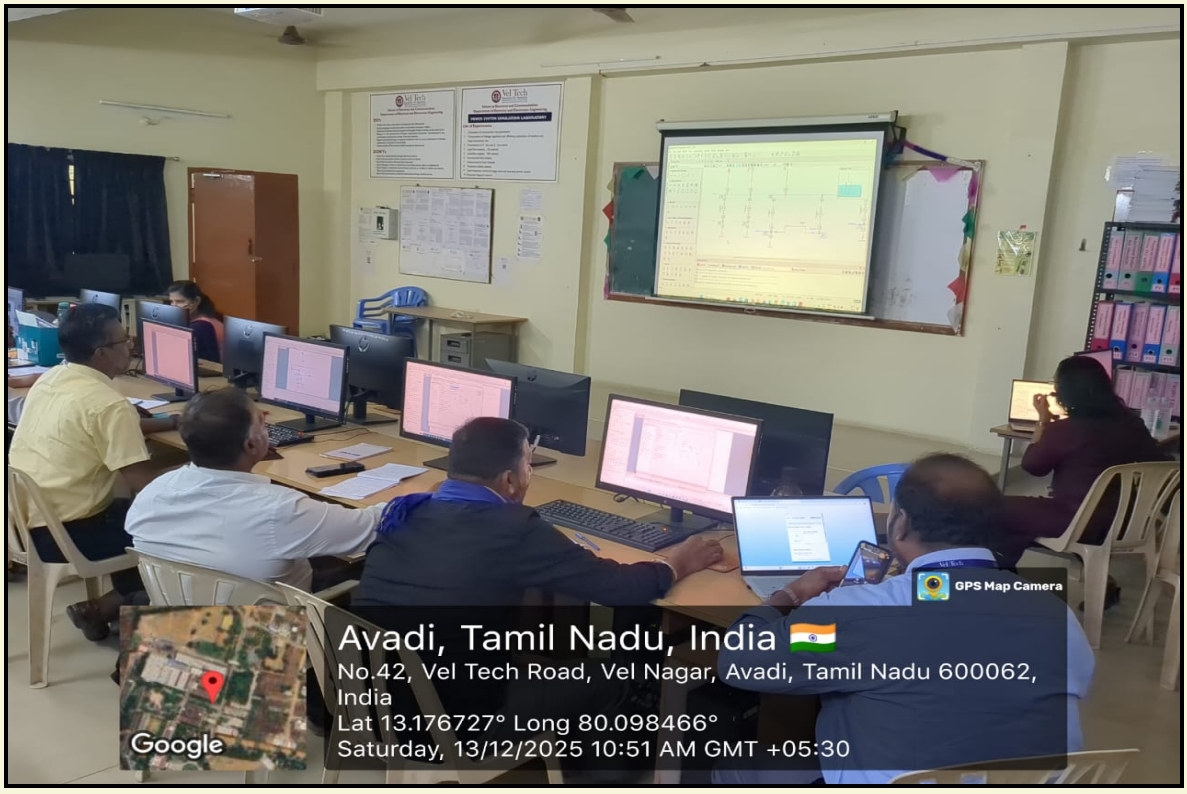
Department of EEE in association with Office of Research and Development & IEEE Power and Energy Society Student Branch- Vel Tech organized a one day workshop on "**Problem Statement to Publication: An Insight for Researchers**" 11th December 2025.

No. of Participants: 50



Event/Workshop/FDP Organized

Department of EEE organized **Two-Day Hands-on Workshop on "Exploring Power Systems with DigSILENT"** for Faculty and Research Scholars on 12th and 13th December 2025.



Dept. of. Electrical and Electronics Engineering

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology,
Avadi, Chennai.

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THANK YOU

Any Query, Kindly Contact to:

hodeee@veltech.edu.in

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