



Department of Electrical and Electronics Engineering

5.8. RESEARCH AND DEVELOPMENT (75)

5.8.1. ACADEMIC RESEARCH (20)

- Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.
- Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (15)
- Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (5)
All relevant details shall be mentioned.

PAPER PUBLICATIONS FOR CAY 2025-2026

S.NO	Title of the paper	Name of the author/s	Name of the Journal	Month and Year of publication	ISSN number	doi number	Indexing (SCI/SCOPUS / WOS /UGC)	Ranking
1	"High-Frequency Circuit Design For Power Electronics In Modern Communication Devices"	Dr. R. Ranadheer Reddy	scientific research and technology development Research	May 2025	2217-8961			
2	"Fuel Cell-Battery Vehiclesfor Optimised Energy Utilisation and Sustainability Using the LOA-SAGAN Approach."	Dr.R.Saravanan	<i>."IETEJournalofResearch71, no. 7 (2025).</i>	12 Jun 2025	2528-2538	org/10.1080/03772063.2025.2485405	SCIE	3
3	"Enhancing smart grid reliability through strategic allocation of electric vehicle charging stations using COA-FBPINNs approach: Enhancing smart grid reliability through strategic allocation of electric vehicle charging stations using COA-FBPINNs approach."	Dr.R.Saravanan	<i>Environment, Development and Sustainability (2025): 1-26.</i>	03 June 2025		org/10.1007/s10668-025-06396-w	SCIE	2

4	"Design of adaptive control framework for collaborative electric vehicle charging to improve hosting capacity in constrained distribution networks."	Dr.R.Saravanan	<i>JournalofEnergyStorage</i> 140(2025):	30 December 2025	118980	org/10.1016/j.est.2025.118980	SCIE	
5	"Integrating renewable resources and electric Vehicles: An approach for effective energy management in DC micro grid."	Dr.R.Saravanan	<i>SolarEnergy</i> 299(2025).	October 2025	113775	org/10.1016/j.solener.2025.113775	SCIE	
6	"Intelligent control strategy for grid-integrated PV systems with enhanced dynamic performance."	Dr.R.Saravanan	<i>Energy</i> 332 (2025)	30 September 2025	137154	org/10.1016/j.energy.2025.137154	SCIE	
7	Remaining Useful Life Prediction of Boiler Feed Pump Motor: A Statistical and Condition Monitoring Approach for Industry 5.0	Mr. G. Sridhar	IEEE Conference	09 th December 2025	IEEE Confere nce	IEEE Conference	SCOPUS	

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Department of Electrical and Electronics Engineering

5.8. RESEARCH AND DEVELOPMENT (75)

5.8.1. ACADEMIC RESEARCH (20)

- Academic research includes research paper publications, Ph.D. guidance, and faculty receiving Ph.D. during the assessment period.
 - Number of quality publications in refereed/SCI Journals, citations, Books/Book Chapters etc. (15)
 - Ph.D. guided /Ph.D. awarded during the assessment period while working in the institute (5)
- All relevant details shall be mentioned.

PAPER PUBLICATIONS FOR CAY 2024-2025

S.NO	Title of the paper	Name of the author/s	Name of the Journal	Month and Year of publication	ISSN number	doi number	Indexing (SCI/SCOPUS / WOS /UGC)	Ranking
1	Innovative strategies for Renewable Energy Integration and Smart Grid Power Management	Dr. R. Saravanan	Optimal Control Applications and Methods (WILEY)	April.2025	1099-1514	DOI: 10.1002/oca.3294	SCIE	Q2
2	Optimizing power quality and placement of EV charging station in a DC grid with PV-ESS using hybrid DOA-CHGNN approach	Dr. R. Saravanan	Electric Power System Research	March .2025	0378-7796235	DOI: 10.1016/j.epsr.2025.111595	SCIE	Q2
3	Optimizing grid-connected solar PV powered smart homes: IOT based energy management systems using AOA –PHNN approach	Dr. R. Saravanan	Electrical Engineering (Springer)	Dec,2024	1432-0487	https://link.springer.com/article/10.1007/s00202-024-02894-8	SCIE	Q3
4	Fault Detection and Fault Location in a Grid-connected Microgrid	Dr. R. Saravanan	Optimal Control Applications and	Dec,2024	1099-1514		SCIE	Q2

	Using Optimized Deep Learning Neural Network		Methods (WILEY)			https://doi.org/10.1002/o-ca.3237		
5	Variable speed drive applications performing effectively with ANN Technique	Dr. R. Saravanan	Wireless personal Communications (Springer)	Sep,2024	1572-834X	DOI: 10.21203/rs.3.rs-2805349/v1	SCIE	Q3
6	Optimizing solar photovoltaic and biomass integration for electric vehicle charging stations in metropolitan cities: A hybrid approach	Dr. R. Saravanan	Optimal Control Applications and Methods (WILEY)	Aug,2024	1099-1514	https://doi.org/10.1002/o-ca.3190	SCIE	Q2
7	Hybrid technique for optimizing charging-discharging behaviour of EVs and demand response for cost-effective PV micro grid system	Dr. R. Saravanan	Journal of Energy Storage (Elsevier)	Aug,2024	2352-152X	https://doi.org/10.1016/j.est.2024.112667	SCIE	Q1
8	Control of DVR using truly-NTD-Phase locked loop	Ms. D. Rashmika Mr K.Prakash Chary	IJARST	Jul,2024	2457-0362	https://ijarst.in/public/uploads/paper/557991724230772.pdf	UGC	---

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PAPER PUBLICATIONS FOR CAYm1 2023-2024

S.NO	Title of the paper	Name of the author/s	Name of the Journal	Month and Year of publication	ISSN/doi number	doi number	Indexing (SCI/SCOPUS / WOS /UGC)	Ranking
1	Load frequency control for enhanced power system stability and reliability using hybrid RSA–HBA technique	Dr. R. Saravanan	Electrical Engineering (Springer)	05 FEB 2024	1432-0487	https://link.springer.com/article/10.1007/s00202-023-02232-4	SCIE	Q3
2	Non-linear hydraulic system (MIMO) plant for optimal control and identification by hybrid BCMO–RERNN strategy	Dr.R. Saravanan	International Journal of Heavy Vehicle Systems (Inderscience)	Dec, 2023	1744-232X	https://doi.org/10.1504/IJHV.S.2024.138404	SCIE	Q4
3	Fuel cell electric vehicles equipped with energy storage system for energy management: A hybrid JS–RSA approach	Dr.R. Saravanan	Journal of Energy Storage (Elsevier)	Oct, 2023	2352-152X	https://doi.org/10.1016/j.est.2023.108646	SCIE	Q1
4	Hybrid methodology-based energy management of microgrid with grid-isolated electric vehicle charging system in smart distribution network	Dr. R. Saravanan	Electrical Engineering (Springer)	Oct, 2023	0948-7921	https://link.springer.com/article/10.1007/s00202-023-02095-9	SCIE	Q3
5	Control of DVR using enhanced transfer delay frequency-locked loop using sine–cosine optimization	Mrs.VemireddyNag amalleswari	Electrical Engineering (Springer)	Oct, 2023	0948-7921	DOI: 10.1007/s00202-024-02445-1	SCIE	Q3

6	"A variable step size robust normalized least mean absolute third-based control scheme for a grid-tied multifunctional photovoltaic system	Mr.M. Karthik	International Journal of Circuit Theory and Applications (WILEY)	Oct, 2023	0098-9886	https://doi.org/10.1002/cta.3618	SCIE	Q3
7	A robust generalized soft-root-sign adaptive filter algorithm for a grid-coupled PV system," Electrical Engineering	Mr.M. Karthik	Electrical Engineering (Springer)	May, 2024	0948-7921	https://link.springer.com/article/10.1007/s00202-023-02097-7	SCIE	Q3
8	A robust variable- λ least logarithmic hyperbolic cosine function adaptive filtering-based control algorithm for grid-connected solar PV system	Mr.M. Karthik	Electric power system research (Elsevier)	Dec, 2023	0378-7796235	https://doi.org/10.1016/j.epsr.2023.109955	SCIE	Q2
9	Understanding of Different MPPT Algorithms To Improve The Performance of Boost Converter	V.C.Laxmi Prasanna	International journal for innovative engineering and management research	JULY 2023	2456-5083		UGC	---

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PAPER PUBLICATIONS FOR CAYm2 2022-2023

S.NO	Title of the paper	Name of the author/s	Name of the Journal	Month and Year of publication	ISSN/	doi number	Indexing (SCOPUS / WOS /UGC)	Ranking
1	A Hybrid Control Topology for Cascaded Multi level Inverter with Hybrid renewable Energy Generation Sub System	Dr.R. Saravanan	Solar energy (Elsevier)	July,2022	0038-092X	https://doi.org/10.1016/j.soler.2022.07.021	SCIE	Q2
2	A Fopid Control Strategy For PV-Battery and Diesel Generator Based EV Charging Station.	Dr.S.Mallikarjun Reddy	IJTE	April,2023	0971-3034		UGC	---
3	Impacts of electric vehicle charging station with the integration of renewable energy with grid connected system: a hybrid technique	Dr.R.Saravanan	Clean Technologies & Environmental policy (Springer)	June,2023	1618-954X	https://link.springer.com/article/10.1007/s10098-023-02548-6	SCIE	Q1
4	A Fopid Control Strategy For PV-Battery and Diesel Generator Based EV Charging Station	Mrs.S.Rodavishal	IJTE	April,2023	0971-3034		UGC	---
5	A Systematic Approach to smart agriculture using IoT initiative	Mrs.V.C.LaxmiP rasanna Mrs.K.Shailaja Mr.G.Sridhar	DogoRasang research journal	JULY 2022	ISSN :2347-7180	https://www.journal-dogorangsang.in/no_1_Online_22/115.pdf	UGC CARE GROUP 1	---
6	Challenges of the existing Security Measures Deployed in the Smart Grid Frame work	Mrs.K.Shailaja Mr.G.Sridhar Mrs.V.C.LaxmiP rasanna	DogoRasang research journal	JULY 2022	ISSN :2347-7180	https://www.journal-dogorangsang.in/no_1_Online_22/183.pdf	UGC CARE GROUP 1	---



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LIST OF CONFERENCE FOR CAY 2024-2025

S.No	Title of the Paper	Name of the Author(s)	Name of the Conference	ISBN/	doi Number	Indexing (SCOPUS / WOS /UGC)	Month and Year of publication
1	Adaptive SMC for modified 3-phase bridge less vienna rectifier for electric vehicle application	Dr.Ragavan Saravanan	International Conference on Power, Energy, Control and Transmission System	-	DOI: 10.1109/ICPECTS62210.2024.10780407	Scopus	2024
2	TNTD-PLL Control Algorithm for DVR	Mrs.VemireddyNagam alleswari	IEEE 4 th international conference on sustainable energy and future electric transportation	979-8-3503-8399-7	https://ieeexplore.ieee.org/document/10717974	Scopus	August, 2024

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LIST OF CONFERENCE FOR CAYm1 2023-2024

S.No	Title of the Paper	Name of the Author(s)	Name of the Conference	ISBN/	doi Number	Indexing (SCOPUS / WOS /UGC)	Month and Year of publication
3	Dual Active Bridge Converter Based Battery Charging System for Electric Vehicle Applications	Mr.M.Karthik	IEEE	979-8-3503-2356-6	DOI: 10.1109/ICPEEV58650.2023.10391933	SCOPUS	, Sept. 2023
2	SOGI-PLL Based Control Technique for the Single-Phase Single-Stage Grid Connected PV System,”	Mr.M.Karthik	International Conference on Cyber physical Systems, Power Electronics and Electric Vehicles	979-8-3503-2356-6	DOI: 10.1109/ICPEEV58650.2023.10391943	SCOPUS	Sept. 2023
3	Design and Implementation of a Domestic Off-Board Multifunctional Bidirectional Electric Vehicle Charger	Mr.M.Karthik	IEEE	979-8-3503-3182-0	DOI: 10.1109/IECON51785.2023.10311840	SCOPUS	Oct. 2023

4	Flexible GTVSG Power Quality Enhancement Using Resilient Heterogeneous Voltage and Current Control	Mr.M.Karthik	IEEE	979-8-3503-4920-7	DOI: 10.1109/ICPC2T60072.2024.10474839	SCOPUS	Jan. 2024
5	Enhancement of Power Quality in a Grid-Connected Photovoltaic System using Robust Modified Champernowne Function Adaptive Filter and DSOGI-FLL	Mr.M.Karthik	IEEE 3rd International Conference on Smart Technologies for Power, Energy and Control (STPEC)	979-8-3503-0473-2	DOI: 10.1109/STPEC59253.2023.10431330	SCOPUS	Dec. 2023
6	Solar PV based Boost Multi Level Inverter for Inductive load	Mr.M.Karthik	IEEE STPEC	979-8-3503-0473-2	DOI: 10.1109/STPEC59253.2023.10430908	SCOPUS	Dec.2023
7	Weibull M-transform LMS-Based Control Scheme for Grid-Connected Photovoltaic System,	Mr.M.Karthik	49th Annual Conference of the IEEE Industrial Electronics Society (IECON),	979-8-3503-3182-0	DOI: 10.1109/IECON51785.2023.10312518	SCOPUS	Oct. 2023

8	Flexible System Architecture of Stand-alone PV connected System with Energy Storage	Mr.M.Karthik	PESGRE 2023	979-8-3503-1057-3	DOI: 10.1109/PESGRE58662.2023.10404389	SCOPUS	Dec. 2023
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LIST OF CONFERENCE FOR CAYm2 2022-2023

S.No	Title of the Paper	Name of the Author(s)	Name of the Conference	ISBN	Doi Number	Indexing (SCOPUS / WOS /UGC)	Year of publication
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1	Improvement in Power Quality for Distribution System using Momentum Algorithm	Mrs.V.Nagamalleswari Dr.Sabharajarya Dr. S. Mallikarjun Reddy Mr. G. Sridhar	International Conference on Recent Advancements in Science and Technology	978-1-6654-8058-1	DOI: 10.1109/SeFeT5524.2022.9909013	SCOPUS	June 2023
2	MPPT of Partial LY Shading PV System using CUCKOO Search Algoritm	Dr.S.Mallikarjun Reddy	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
3	Simulation of Multiple Renewable Resources with Grid2V	Dr.R.Saravanan	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9			2023
4	Intelligence Traffic Signal Control Using Programmable Logic Controller	Dr.R.Saravanan	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
5	Robotic ARM Control Using MATLAB Interfacing With Arduino UNO	Dr.S.Mallikarjun Reddy	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
6	Smart Distribution Board with IOT	Mr.S.Sridhar	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
7	Single Chip Microcontroller based Vehicle Tracking System	Dr. S. Mallikarjunreddy	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
8	Maximum Power Point Tracking for PV Systems Operating under Partial Shading Using PSO Algorithm	Dr.Sarvanan R	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023

9	A Cost Effective Solution For Water Pump Using PV System With Constant V/F Technique	Mrs.Nagamalleswari	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
10	Energy Meter Online Monitoring Using PZEM-017 & Blynk App	Mrs. M.Sravanthi	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
11	Multilevel Inverter for EV Applications in 5 Phase	Mr.SridharGali	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
12	Inverterless PV System for PICO off GRID	Mr.Ranadheer Reddy Ragidi	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9			2023
13	Arduino Based Dual Axis Solar Tracker	Dr.R.Sarvanan	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
14	Real-Time Weather Monitoring system powered by IOT	Mrs.S.Roda Vishal	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
15	MPPT for Solar PV Cell Using INC Algorithm With DTC	Mrs.K.Shailaja	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9			2023
16	Quadcopter Design and Development of Surveillance Quadcopter	Mr.S.Sridhar	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
17	IRPT Based Dstacom for Harmonic Removal and Reactive Energy Compensation	Mrs. RavulaSwathi	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023

18	Automatic Water Bottle Filling System Using Arduino UNO	Mr. Sridhar Singam	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
19	Smart Information Display System	Mr.S.Sridhar	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
20	LPG WEIGHT & GAS Leakage Detection System Using NODEMCU ESP8266	Mrs.K.Shailaja	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
21	Design and Simulation of Inductive Charging System for EVs	Mr. G.Sridhar	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
22	Improvement in Power Quality for Distribution System Using An Adaptive Observer	Mrs.K.Shailaja Mrs. M.Sravanthi	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		-	2023
23	Mitigation of power quality problems due to load in DSTATCOM	Ms. Rashmika.D Ms.B.Prathibha	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9			2023
24	Wireless electric vehicle battery charging system using PV array	Mrs.V.C.LaxmiPrasanna	International Conference on Recent Advancements in Science and Technology	978-93-5915-119-9		--	2023
25	Complex band pass filter with optimized PI Gains for Mitigation of Voltage based Power Quality Problems	Dr.S.Mallikarjun Reddy Mrs.V.Nagamalleswari	International Conference on Recent Advancements in Science and Technology	978-1-6654-8057-4/22		SCOPUS	2023
26	Hyperbolic Secant LMS Algorithm to Enhance Performance of a Three-Phase Single-Stage Grid	Mr.M. Karthik	Proceedings IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies	979-8-3503-3211-7	DOI: 10.1109/GlobCon-HT56829.2023.100875	SCOPOUS	2023

	Connected PV System,		(GlobConHT		56		
27	Normalized Sigmoid Function LMS Adaptive Filter based Shunt Hybrid Active Power Filter for Power Quality Improvement,	Mr.M. Karthik	. IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies(GlobConHT)	979-8-3503-3211-7	DOI: 10.1109/GlobConHT56829.2023.10087848	SCOPOUS	2023
28	A Variable Step Size Logarithmic Hyperbolic Cosine Adaptive Filtering-Based Control Scheme for Grid-Tied PV-DSTATCOM to Enhance Power Quality,”	Mr.M. Karthik	IEEE International Conference on Power Electronics, Drives and Energy Systems	978-1-6654-5566-4	DOI: 10.1109/PEDES56012.2022.10080129	SCOPOUS	Dec. 2022
29	A Robust Generalized Modified Blake-Zisserman Adaptive Filter-Based Control Scheme for Grid-Tied PV System to Improve Power Quality	Mr.M. Karthik	IEEE International Conference on Power Electronics, Drives and Energy Systems	978-1-6654-5566-4	DOI: 10.1109/PEDES56012.2022.10080390	UGC	Dec. 2022

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BOOK/BOOK CHAPTER PUBLICATIONS FOR CAY 2024-2025

S. No	Title of the Book	Name of the Author(s)	Name of the Publisher	ISBN	Month and Year of publication
1	Fundamentals of Renewable Energy Sources	Dr.Ranadheer Reddy Ragidi Dr.S. Mallikarjun Reddy Dr.R. Saravanan Mrs.V.C. Laxmiprasanna	Scientific International publishing house	978-93-6674-403-2	2024

2	Image enhancement with optimized gamma correction weighted distribution via differential evolution algorithm	Mrs. Vemireddy Nagamalliswari	IIP Series	978-93-6252-596-3	2024
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BOOK/BOOK CHAPTER PUBLICATIONS FOR CAYm1 2023-2024

S. No	Title of the Book	Name of the Author(s)	Name of the Publisher	ISBN/doi Number	Year of publication
1	Electric and Hybrid Vehicles	Dr.R. Saravanan	Deccan International Book Academic publishers	9788196371432	2023
2	Switch Gear and Protection	Dr. R. Saravanan	Alpha International publishers	978-93-5762-251-6	2023



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BOOK/BOOK CHAPTER PUBLICATIONS FOR CAYm2 2022-2023

S. No	Title of the Book	Name of the Author(s)	Name of the Publisher	ISBN/doi Number	Year of publication
1	MPPT Algorithms for solar PV-Drip Irrigation System	V.Nagamalliswari	Springer, Singapore	978-981-99-2065-5	June, 2023

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NPTEL CERTIFICATE PROGRAMME, CAY 2024-25

S. No	Name of the Faculty	Name of the Course	Duration of Course	Type of Certificate
1	Dr. S. Mallikarjun Reddy	Digital protection of power system	8 weeks Jan-Mar 2025	Elite
2	Mrs. C. V. Laxmi Prasanna	Teaching and Learning in Engineering	4 weeks (Jan – Feb 2025)	Elite
3	Mrs. C. V. Laxmi Prasanna	Power Quality Improvement Technique	8 weeks Jan-Mar 2025	Successfully Completed
4	Mrs. C. V. Laxmi Prasanna	Introduction To Soft Computing	8 weeks Jan-Mar 2025	Successfully Completed
5	Mrs. M. Sravanthi	Python for Data Science	4 weeks (Jan – Feb 2025)	Elite
6	Mrs.V. Nagamalleswari	Python for Data Science	4 weeks (Jan – Mar 2025)	Elite
7	Ms. D. Rashmika	Data Base Management System	8 weeks (July-Sept 2024)	Successfully Completed
8	Ms. D. Rashmika	Introduction to Internet of Things	12 weeks (Jul-Oct 2024)	Elite
9	Mrs. M. Sravanthi	Introduction to Internet of Things	12 weeks (Jul-Oct 2024)	Elite
10	Mrs. K. Shailaja	Introduction to Internet of Things	12 weeks (Jul-Oct 2024)	Elite
11	Dr. S. Mallikarjun Reddy	Introduction to Industry 4.0 and Industrial Internet of Things	12 weeks (Jul-Oct 2024)	Elite

12	Mrs. M. Sravanthi	Computer Architecture	12 weeks (Jul – Oct 2024)	Successfully Completed
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NPTEL CERTIFICATE PROGRAMME, CAYm1 2023-24

S. No	Name of the Faculty	Name of the Course	Duration of Course	Type of Certificate
1	Dr. S. Mallikarjun Reddy	Teaching and Learning in General Programmes-TALG	4 weeks (Jul – Aug 2023)	Elite
2	Mrs. V. Nagamalleswari	Introduction to Machine Learning	8 weeks (Jul – Sep 2023)	Elite
3	Dr. S. Mallikarjun Reddy	Power System Protection and Switchgear	8 weeks (Jul – Sep 2023)	Successfully Completed
4	Ms. D. Rashmika	Advances in UHV Transmission and Distribution	8 weeks (Jul – Sep 2023)	Successfully Completed
5	Mr. D. Sampath	Power System Protection and Switchgear	8 weeks (Jul – Sep 2023)	Elite
6	Dr. S. Mallikarjun Reddy	Smart Grid – Basics to Advanced Technologies	12 weeks (Jul – Oct 2023)	Successfully Completed
7	Dr. S. Mallikarjun Reddy	Introduction to Internet of Things	12 weeks (Jul – Oct 2023)	Elite

8	Mrs. V.C. Laxmi Prasanna	Research Methodology	8 weeks (Aug – Oct 2023)	Elite
9	Mrs. K. Shailaja	Computer Architecture	12 weeks (Jul – Oct 2023)	Successfully Completed
10	Ms. D. Rashmika	Solar Engineering and Technology	12 weeks (Jul – Oct 2023)	Successfully Completed
11	Dr. S. Mallikarjun Reddy	EV-Vehicle Dynamics and Electric Motor Drives	8 weeks (Jan-Mar 2024)	Successfully Completed
12	Mrs. M. Sravanthi	Software Testing	4 weeks (Jan-Feb 2024)	Successfully Completed
13	Mrs. M. Sravanthi	Data Base Management System	8 weeks (Jan-Mar 2024)	Successfully Completed
14	Mrs. M. Sravanthi	Introduction to database system	12 weeks (Jan-Apr 2024)	Successfully Completed
15	Mrs. K. Shailaja	Advanced Computer Architecture	12 weeks (Jan-Apr 2024)	Successfully Completed

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NPTEL CERTIFICATE PROGRAMME, CAYm2 2022-23

S. No	Name of the Faculty	Name of the Course	Duration of Course	Type of Certificate
1	Dr. S. Mallikarjun Reddy	Power System Engineering	12 weeks (Jan – April 2023)	Successfully Completed
2	Dr. S. Mallikarjun Reddy	Electric Vehicles- 1	4 weeks (Jan – Feb 2023)	Elite
3	Dr. S. Mallikarjun Reddy	Effective Engineering Teaching in Practice	4 weeks (Jan – Feb 2023)	Elite
4	Mrs. S. Roda Vishal	Electric Vehicles- 1	4 weeks (Jan – Feb 2023)	Successfully Completed
5	Mrs. S. Roda Vishal	Recent Advances in Transmission Insulators	4 weeks (Jan – Feb 2023)	Elite
6	Mrs. V. Nagamalleswari	Database Management System	8 weeks (Jan – Mar 2023)	Successfully Completed
7	Dr. S. Mallikarjun Reddy	Recent Advances in Transmission Insulators	4 weeks (Jan - Feb 2022)	Successfully Completed
8	Mrs. M. Shrvanthi	C-Programming and Assembly Language	4 weeks (Jan - Feb 2022)	Successfully Completed
9	Mrs. V. Nagamalleswari	NBA Accreditation and Teaching and Learning in Engineering (NATE)	12 weeks (Jan – April 2022)	Elite

10	Mrs. R. Swathi	Network Analysis	12 weeks (Jan – April 2022)	Elite
11	Mr. M. Kalyan	Network Analysis	12 weeks (Jan – April 2022)	Elite + Silver
12	Mrs. A. Ashwini	Non Conventional Energy Resources	12 weeks (Jan – April 2022)	Successfully Completed
13	Mrs. V. Laxmi Prasanna	Introduction to Smart Grid	8 weeks (Jul – Sep 2022)	Successfully Completed
14	Mrs. V. Nagamalleswari	Joy of Computing Python	12 weeks (Jan – April 2022)	Elite
15	Dr. S. Mallikarjun Reddy	Advance in UHV Transmission and Distribution	8 weeks (Jul – Sep 2022)	Elite

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PATENTS

S.No.	Patent File No.	Title	Patent Holder Name	Published date
1	396002-001	Solar powered wireless sensor node for data communication	Dr.R.Saravanan Professor,EEE	25 September 2023
2	201840128853	Intelligence smart interactive fan	Dr.R.Saravanan Professor,EEE	01 September 2023
4	379954-001	IOT enabled smart label printer	Dr.R.Saravanan Professor,EEE	23 Febraury 2023

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Department of Electrical and Electronics Engineering

Citations

S. No	Name of the faculty	Citations	h-index	i10-index
1	Dr.R.Saravanan	121	6	4
2	Mrs.V.N.Mallishwari	10	2	0
3	Mr.R.Ranadheer Reddy	1	1	0
4	Mr.G. Sridhar	6	1	0

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Details of Guide Eligibility in Universities

Research Guide	Name of the Scholar	Topic of the Research	University & Year of Registration	Ph.D. Guided/Guiding
Dr. R.Saravanan	Mr. N.Vinay Kumar	Energy Management Strategy and controller smart grid	SR University, WARANGAL	Guiding
Dr. R. Saravanan	Mrs. Kummari. Sravani	performance analysis of renewable energy sources integrated with electric vehicle charging technologies	SR University, WARANGAL	Guiding
Dr. R. Saravanan	Mr.S.Sridhar	Integration of Renewable Energy sources	Annamalai University	Guiding

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Department of Electrical and Electronics Engineering

Details of Scholars Awarded Under the Guidance

S.No	Name of The Faculty	Research Topic	University	Year of Completed
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1	R. Ranadheer Reddy	A Novel Soft Switching Full Bridge Dc-Dc Converter using Pulse width Modulation	Career Point University	2023-24
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PH.D Pursuing

S.No	Faculty Name	Research Topic	University	Guide	Year of Registration
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1	Mr.S.Sridhar	Integration of Renewable Energy sources	Annamalai University	Dr.R.Saravanan	2024
2	Mr.K.Subhash	Micro Grid Power system state estimation	S.R University	Dr.B.Vedhik Associate Professor Dr. D. M. Vinod Kumar Professor	2023
3	Mr.Gali Sridhar	1.AI Technique implementation in smart grid 2.Metahuristic technique in electricity market 3.Advanced implantations in EV	NIT, Meghalaya	Dr.SanjayDebbarma Assistant Professor & HOD,NIT(M)	Aug,2021
4	Mrs .V.C Laxmiprasanna	Power Systems(Power Quality)	GITHAM University	G.Srinivas Assistant Prof Githamuniversity	2021
5	Mrs.NagaMallehwari	Power Quality on DVR using Optimization Techniques	SVNIT,Surath	Mr.SabhaRja Arya Associate Professor,SVNIT,Surath	June 2019
6	Mrs,ArumullaAshwini	Electric vehicles	Annamalai University	Research guide: Dr.M.Anitha Associate professor Annamalai university, chennai	2020
7	Mrs.Sangalarodavishal	New multilevel inverter topology for photovoltaic system	Annamalai university chennai	Dr.R.Geetha Associate professor ,Annamalai university chennai	2020
8	Ms.Ravulaswathi	Voltage Quality Enhancement of Grid integrated PV System Using Battery based Dynamic voltage restorer	Annamalai university chennai	Dr.Radha J Assistant professor,Department of Electrical Engineering	2020

