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Recognized Department/Institute/R&D Centre

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62	Nandha Engineering College, Erode	All Departments	4271500	December 2027

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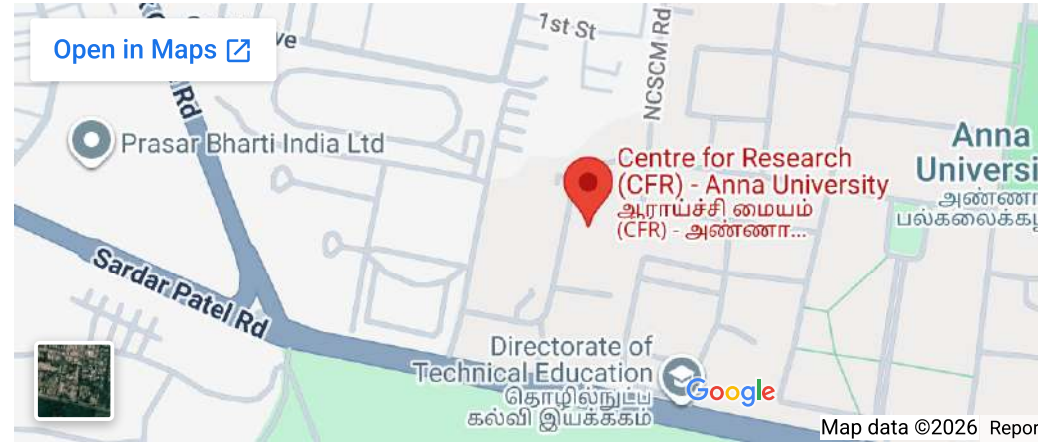
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DIRECTOR

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dirresearch@gmail.com



Date : 24.11.2023

Lr.No: 2715/IR/EEE/AR2

To
The Principal
Nandha Engineering College,
Pitchandampalayam,
Erode 638052

Sir/Madam,

Sub : Anna University - Research Centre Recognition - **Department of
Electrical and Electronics Engineering** - Orders - Issued.
Ref : Your Application No.: **16IR2544**

I am by direction to inform that the **Department of Electrical and Electronics Engineering** of your Institution has been recognized as a research centre with effect from **24.11.2023** for a period of three years upto **December 2026** as per common renewal session. The faculty members of this Department can interact with Anna University for collaborative research for the purpose of pursuing Ph.D. programme.

The recognized supervisors working in the above Department may be permitted to guide the candidates to carry out Ph.D. programme relevant to their field of specialization. Please refer to Ph.D. Regulations.

The above recognition shall be renewed once in **three years** in compliance with the required norms for research centre as applicable.

In all future correspondence quote "4271508" for reference.

The next renewal application (available in cfr.annauniv.edu) on fulfilling norms as applicable at the time of renewal along with the renewal fee shall be sent to this office. **Renewal can be done three months prior to last date.**

DIRECTOR

24/11/23

24/11/2023



Dr.G.Kumaresan
Director i/c

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Date : 10.02.2025

Lr.No: 2715/RIR/AR2/2025

To

The Principal
Nandha Engineering College,
Vaikkalmedu,
Erode 638052

Sir/Madam,

Sub : Anna University - **Research Institute Recognition** - Approval Orders - Issued.

Ref : 1. Your Application No.: **16IR2945**

2. CC Note Approval Dated: 20.01.2025

I am by direction to inform that your College/Institution (ref-1) is approved as **Institute Level Research Centre** (ref-2) for a period of **three years** upto **December 2027**. The faculty members of your College/Institution can interact with Anna University for collaborative research for the purpose of pursuing Ph.D. / M.S. (By Research) programme.

The recognized supervisors working in your College/Institution may be permitted to guide the candidates to carry out Ph.D. / M.S. (By Research) programme relevant to their field of specialization. Please refer to Ph.D. & M.S. (By Research) Regulations for additional information.

In all future correspondence quote "4271500" for reference.

Renewal must be initiated at least **3 months** before the expiry of the current term and granting of extension will be based on your College/Institution meeting of the norms of the Research Institute Recognition at the time of application.

T. Kumaresan
DIRECTOR i/c
10/2/25

10/2/25
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Centre For Research – Supervisor List

Nandha Engineering College – Department of Electrical and Electronics Engineering

SL.NO	REF. NO	SUPERVISOR NAME	DEPARTMENT	COLLEGE / ORGANISATION	RESEARCH AREA
1	3130031	Ramani G	Department of Electrical and Electronics Engineering	Nandha Engineering College (Autonomous), Erode - Perundurai Main Road, Vaikkaalmedu, Erode, 638052	Embedded and IoT systems, Machine learning, Renewable Energy Systems, Drives and Automation, Energy Auditing
2	4130018	Jamuna P	Department of Electrical and Electronics Engineering	Nandha Engineering College, Erode-638052	Power Electronics and Drives, Energy Systems, Embedded and IoT Systems, Soft Computing Techniques and AI & ML
3	4130036	Jayakumar T	Department of Electrical and Electronics Engineering	Nandha Engineering College (Autonomous), Perundurai, Erode-638052	Electric Vehicle, Renewable Energy Systems, Power Quality, IoT and Embedded Systems, Artificial Intelligence

NANDHA ENGINEERING COLLEGE (Autonomous), ERODE - 638052

Department of Electrical and Electronics Engineering

Research center details (scholar details and supervisor details)

Sl. No.	Academic year	Name of the Faculty	AU Recognized Supervisor No.	Name of the Scholars	Scholars Reg. No	Title of the Research	Month and Year of Registration
1	2024-2025	Dr.G.Ramani	3130031	Mr.T.Jayabharathi	24143697192	UPQC BASED POWER LOSS MINIMIZATION AND HARMONIC DISTORTION REDUCTION IN FACTS	July - 2024
				Ms.P.Dhivya	24243697131	CARDIAC ARRHYTHMIA DETECTION AND DYNAMIC DEFIBRILLATOR ENERGY ADJUSTMENT AN AI BASED APPROACH FOR ENHANCED EMERGENCY CARDIAC CARE	July - 2024
				Ms.K.S.Ambika (Full Time)	25243691127	ONLINE MONITORING AND CONTROL OF MULTI-SENSORS FUSION BASED AGRO-WASTE BRIQUETTE MAKING MACHINE USING MACHINE LEARNING ALGORITHMS	January - 2025
				Mr.M.Prabu	25139691139	INVESTIGATION AND ANALYSIS OF DIGITAL ENERGY EFFICIENT TECHNOLOGIES FOR ENHANCING ENERGY CONSERVATION	January - 2025
				Ms.S.Amsaveni	25249691155	PERFORMANCE EVALUATION OF CLASSICAL CONTROLLERS FOR ADVANCED SWITCHED MODE POWER CONVERTERS	January - 2025
	2025-2026			Mr.C.Prabhu	25149697258	LIGHTWEIGHT AND SCALABLE SECURE COMMUNICATION FRAMEWORK FOR ADHOC IOT NETWORKS USING MACHINE LEARNING	July - 2025
				Mr.S.Saravanan	26139691101	DEEP LEARNING FRAMEWORK FOR AUTOMATED CERVICAL CANCER DETECTION AND SEGMENTATION	January - 2026
2	2024-2025	Dr.P.Jamuna	4130018	Ms.P.Kokila	25243691123	DESIGN AND OPTIMIZATION OF MICROSTRIP PATCH ANTENNAS FOR 6G MILLIMETER AND TERAHERTZ COMMUNICATIONS	January - 2025
				Ms.M.Manjula	25243691161	INVESTIGATION AND DEVELOPMENT OF SMART GOVERNOR FOR RENEWABLE AND HYBRID APPLICATIONS	January - 2025
	2025-2026			Ms.P S Niji	26299691322	HIGH SPEED VLSI ARCHITECTURES FOR LATTICE BASED QUANTUM CRYPTOGRAPHY IN HOMOMORPHIC ENCRYPTION APPLICATIONS	January - 2026
				Ms.T G Dhaarani	26249691151	AI-DRIVEN OPTIMIZATION OF USER-SPECIFIC RESOURCE BLOCK ALLOCATION FOR MAXIMIZING COMMUNICATION THROUGHPUT AND SENSING ACCURACY IN INTEGRATED SENSING AND COMMUNICATION (ISAC) ENABLED 6G NETWORKS	January - 2026
3	2024-2025	Dr.T.Jayakumar	4130036	Mr.B.Ramraj	25149691230	DEVELOPMENT OF ROBUST ELECTRIC VEHICLE CHARGING SYSTEM BASED ON ARTIFICIAL INTELLIGENCE TECHNIQUES	January - 2025
				Mr.V.Arun Kumar	25133691175	DEVELOPMENT OF INTELLIGENT ALGORITHM FOR BATTERY MANAGEMENT SYSTEM IN ELECTRIC VEHICLES	January - 2025
				Ms.P.Hemalatha	25243691197	HYBRID TECHNIQUES FOR STATE OF HEALTH AND REMAINING USEFUL LIFE PREDICTION IN BATTERY MANAGEMENT SYSTEMS FOR ELECTRIC VEHICLE	January - 2025
				Ms.D.Charmila	25243691194	ADVANCED ESTIMATION TECHNIQUES FOR STATE OF HEALTH AND STATE OF ENERGY IN SUPER CAPACITORS FOR ELECTRIC VEHICLE MANAGEMENT	January - 2025
	2025-2026			Ms.R.Vijayalakshmi	25233697142	AI-DRIVEN CONTROL STRATEGIES FOR ENHANCED MOTOR TORQUE AND EFFICIENCY IN ELECTRIC VEHICLES WITH ADVANCED CONVERTER INTEGRATION	July - 2025
				Mr.D.Anandakumar	25149697247	AI - DRIVEN SECURE AND ENERGY EFFICIENT ROUTING FOR LARGE SCALE IOT NETWORKS	July - 2025



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[Electrical Engineering](#), 2025, 107(10), pp. 13827–13853

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Jamuna, P.,Ezhilarasi, E.,Gokula Shankari, K. S.,Bhuvanesh, S. S.

Proceedings of 7th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks, ICICV 2026, 2026, pp. 67–73

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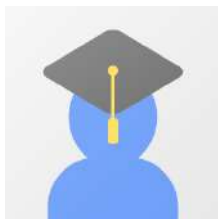
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Investigation and validation of PV fed reduced switch asymmetric multilevel inverter using optimization based selective harmonic elimination technique T Jayakumar, G Ramani, P Jamuna, B Ramraj, G Chandrasekaran, ... Automatika 64 (3), 441-452	47	2023
An efficient code compression for MIPS32 processor using dictionary and bit-mask based static and dynamic frequency algorithm G Ramani, K Geetha COMPEL 35 (5), 1774-1785	16	2016
Vibration Signals Based Bearing Defects Identification Through Online Monitoring Using LABVIEW RG Maheswari Chennippan1*, Priyanka E. Bhaskaran1, Ibrahim Sherrif K ... Journal Européen des Systèmes Automatisés 53	15	2020
Smart attendance monitoring system using iot G Ramani, G Pradeepkumar, PN Palanisamy, S Ashika Preethi 2023 9th International Conference on Advanced Computing and Communication ...	10	2023
Analysis and optimization on the biodegradable plate making process parameters using RSM-based Box–Behnken Design method C Maheswari, AS Ramya, BM Priya, S Sudhahar, B Prabhu Raj, B Lokesh, ... Journal of Material Cycles and Waste Management 23 (6), 2255-2265	10	2021
Performance improvement of lithium-ion battery for battery evs G Ramani, KK Kumar, M Chitra, MP Selvam, N Selvam, S Sudha 2024 International Conference on Communication, Computing and Internet of ...	5	2024
Checkbit Prediction for Logic Functions By Using Dongms Code Method N Dinesh Babu, G Ramani intern. Journal of science and Research (iJsR) 3 (11), 946-949	5	2014



Dr.Jamuna Ponnusamy

Nandha Engineering college
Power Electronics
Renewable energy
Electric Drives and Control
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Citations	102	96
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Investigation and validation of PV fed reduced switch asymmetric multilevel inverter using optimization based selective harmonic elimination technique T Jayakumar, G Ramani, P Jamuna, B Ramraj, G Chandrasekaran, ... Automatika 64 (3), 441-452	47	2023
Impacts of Laminating Core Materials on Permanent Magnet Synchronous Motor by Newton–Raphson Methodc P Sundaramoorthy, A Vijayakumar, K Rajkumar, J Ponnusamy, ... IEEE Canadian Journal of Electrical and Computer Engineering 47 (2), 105-110	16	2024
IoT based Energy Efficient Smart Metering System P Jamuna, V Bharathi, A Loganayaki 2023 Second International Conference on Electronics and Renewable Systems ...	9	2023
SENSOR FAILURE IDENTIFICATION AND SEGREGATION USING WAVELET PERFORMANCE ANALYSIS FOR WSN BASED STATUS SURVEILLANCE SYSTEM OF A WIND TURBINE JP Saravanan Muthampatty Sengottaiyan,, Jeyabharath Rajaiah, Ravivarman ... INTERNATIONAL JOURNAL OF INDUSTRIAL ENGINEERING 30 (3), 781-796	8	2023
Intelligent Automation in Long Vehicles through LDR Sensor Technology for Accident Prevention P Jamuna, KK Kumar, A Murugesan, G Karthikeyan, S Dineshkumar, ... 2024 International Conference on Communication, Computing and Internet of ...	6	2024
Experimental validation of impedance source network based active power filter for interconnection of PV system into grid P Jamuna, S Ramesh Journal of Circuits, Systems and Computers 27 (14), 1850215	5	2018
Air filter for carbon emission industries using AI technique P Jamuna, S Gokul, V Sabarinath, KSS Vignesh, T Gokul 2024 15th International Conference on Computing Communication and Networking ...	3	2024



Dr.T.Jayakumar

Other names ◀ Jayakumar Thangavel

Associate Professor, Department of EEE,
Nandha Engineering College
(Autonomous)

Renewable Energy System
Electric Vehicles
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Power Quality

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TITLE	CITED BY	YEAR
Investigation and validation of PV fed reduced switch asymmetric multilevel inverter using optimization based selective harmonic elimination technique T Jayakumar, G Ramani, P Jamuna, B Ramraj, G Chandrasekaran, ... Automatika 64 (3), 441-452	47	2023
A novel design methodology and numerical simulation of BLDC motor for power loss reduction NS Kumar, G Chandrasekaran, J Thangavel, V K, G C, N Priyadarshi, ... Applied Sciences 12 (20), 10596	43	2022
Design and implementation of photovoltaic-assisted dynamic voltage restorer using fuzzy logic controller-based improved SOGI for power quality improvement M Thenmozhi, S Umamaheswari, AA Stonier, J Thangavel Electrical Engineering 106 (3), 3475-3493	25	2024
Design and development of solar photovoltaic fed modular multilevel inverter using intelligent techniques for renewable energy applications J Thangavel, G Chinnaraj, G Chandrasekaran, V Kumarasamy Journal of Intelligent & Fuzzy Systems 44 (2), 1807-1821	14	2023
Implementation of solar PV system unified ZSI-based dynamic voltage restorer with U-SOGI control scheme for power quality improvement T Jayakumar, A Alexander Stonier Automatika 61 (3), 371-387	12	2020
Grid-To-Vehicle (G2V) and Vehicle-To-Grid (V2G) in Hybrid AC/DC Microgrids D Sarathkumar, JB Sajin, BK Parthipan, T Jayakumar, J Sivadasan, ...	11 *	2025