



NATIONAL ENGINEERING COLLEGE

(An Autonomous Institution Affiliated to Anna University, Chennai)
K.R.Nagar, Kovilpatti - 628 503.

FACULTY PROFILE

ENIYAN M C

Personal Details

Instructor Name: Eniyan M C
Designation: Assistant Professor
Department: Mechanical Engineering - NEC
Date of Joining in NEC: 10-09-2025
Date of Joining in Present Post: 10-09-2025
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Address for Communication

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City: Nagercoil
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District: Kanyakumari
State: Tamil Nadu

Sr	Name of the Degree	Name of the Institute	Year of Passing	Specialization	Name of the University
1	B.E	St. Xavier's Catholic College of Engineering, Chunkankadai.	2018	Mechanical Engineering	Anna University
2	M.E	St. Xavier's Catholic College of Engineering, Chunkankadai.	2020	Energy Engineering	Anna University
3	Ph.D	University College of Engineering, Nagercoil, Anna University Constituent College, Nagercoil	2026	Energy Engineering	Anna University

Sr	Name of Institute / Organizations	Date of Joining	Total Experience	Designation	To
1	Loyola Institute of Technology and Science, Thovalai, Kanyakumari	17-08-2020	9 months 20 days	Assistant Professor	05-06-2021

Sr	Name of the Event	Event Type	From	To	No. of Day or Days
1	Innovation in Advanced Materials, Optimization, and Sustainable Energy Systems	Faculty Development Program	15-12-2025	20-12-2025	6

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
1	Sustainable biohydrogen production from lignocellulosic biomass sources - metabolic pathways, production enhancement, and challenges	Environmental Science and Pollution Research		Eniyan MC & Edwin M	https://doi.org/10.1007/s11356-023-29617-z
2	Non-ionic surfactant integrated ultrasonic pretreatment on food waste for biomethane production: Process optimization	Energy Conversion and Management		Eniyan MC, Edwin M & Banu JR	https://doi.org/10.1016/j.enconman.2024.118545
3	Enhancing biomethane yield from food waste through surfactant-assisted mechanical pretreatment: An optimization approach	Journal of Renewable and Sustainable Energy		Eniyan MC, Edwin M & Banu JR	https://doi.org/10.1063/5.0207515
4	Mild thermo-mechanical pretreatment method for improving biomethane production: Food waste disintegration and its impact on solubilization	Thermal Science and Engineering Progress	2025 - 2026	Eniyan, M.C., Edwin, M. & Nagarajan, V.A.	https://doi.org/10.1016/j.tsep.2025.103432
5	Synergistic analysis on novel biosurfactant-induced mechanical pretreatment for energy-efficient biomethane production from organic waste	Renewable Energy	2025 - 2026	Eniyan MC & Edwin M	https://doi.org/10.1016/j.renene.2025.122776
6	Unleashing the Biomethane Production Potential of Food Waste Through a Non-Toxic Biosurfactant Aided Ultrasonic Disintegration: Impact on So	Arabian Journal for Science and Engineering	2025 - 2026	Eniyan MC & Edwin M	https://doi.org/10.1007/s13369-025-10178-x

Sr	Name of the Society / Organization	Type of Membership	Membership ID
1	Indian Society for Technical Education	Life Membership	LM132581

Sr	Name of the Book	Name of the Chapter	Authors	Publisher	ISSN Number
1	Interconnected Modern Multi-Energy Networks and Intelligent Transportation Systems: Towards a Green Economy and Sustainable Development	Multi-Energy Management Schemes for the Sustainability of Intelligent Interconnected Transportation Systems	Edwin M, Eniyan M C, Saranya Nair M & Antony Miraculas G	Wiley-IEEE Press	978-1-394-18877-2
2	Power-to-X in Regional Energy Systems Planning, Operation, Control, and Market Perspectives	Power-to-X and the Art of Hybrid Systems	Edwin M & Eniyan M C	CRC Press	9781032719412