FACULTY PROFILE

Name of the Staff : Dr. F.X Edwin Deepak

Official Address with E-mail Id : Assistant Professor

Dept. of EEE

National Engineering College

Kovilpatti-628 503

edwindeepak-eee@nec.edu.in

Mobile Number : 9487747136

1. Personal Details :

Age : 38

Date of Birth : 13.05.1985

Sex & Marital Status : Male & Married

Citizenship : Indian

Qualification : M.E., Ph.D

Educational Qualifications:

Degree	Specialization	Class	Year of Passing	Aggregat e %	Institution
	Z-Source Multilevel		2018		ANNA University,
Ph.D	Inverter fed Induction				Chennai
(Part-	Motor Drives				
time)	(Power Electronics and				
	Drives)				
M.E		First Class			PSNA College of
	Power Electronics and	with	2009	85%	Engineering and
	Drives	Distinction			Technology, Dindigul
		First Class	2006		PSNA College of
B.E	Electrical and Electronics			71%	Engineering and
	Engineering				Technology, Dindigul
					MSP Solai Nadar
HSC			2002	83.5%	Memorial
					Hr.Sec.School, Dindigul
					St Mary's Hr.Sec School,
S.S.L.C			2000	92.4%	Dindigul

Date of joining : 05.05.2023

Present status : Assistant Professor

Professional Experience

S.NO	NAMEOFTHE INSTITUTION/ORGAN ISATION	DESIGNATION	NATURE OF WORK	PERIOD
1.	PSNA College of Engineering and Technology, Dindigul.	Lecturer	Teaching	29-12-2008 TO 28-12-2010 (2 years)



2.	PSNA College of Engineering and Technology, Dindigul.	Assistant Professor	Teaching	28-12-2010 TO 01-02-2021
3.	PSNA College of Engineering and Technology, Dindigul.	Associate Professor	Teaching	(11 years) 01-02-2021 TO 02-05-2023
				(2 years 3 Months)

Courses taught:

Course Title	U.G. or P.G.
Basic Electrical Electronics and Measurement Engineering, Linear Integrated	U.G
Circuits and Applications, Digital Logic Circuits, Measurements and	
Instrumentation, Digital Principles and System Design, Special Electrical	
Machines , Design of Electrical Apparatus.	
Power Electronics, Solid State Drives, Circuit Theory.	
Special Electrical Machines, Embedded C and Python Programming	PG

2. Academic Achievements

International / National Conference Publications:

S.No	Title of the Paper	Name of the Conference	Organizer	Month & Year
1.	Ultra-Fast Charging E-Vehicle Batteries from PV using DC-DC Converter	(ICECAA), 2022	Gnanamani College of Technology, Namakkal	OCTOBER,2022
2.	Pythagorean Fuzzy Cognitive Maps in Making Optimal Decisions on Feasible Strategies for Inhibiting Electronic Waste.	I3CAC 2021	Bharath University, Chennai	JUNE, 2021
3.	Quasi Z Source DC-DC Converter with Improved Voltage Gain	EEICC 2020	Karpagam College of Engineering, Coimbatore.	JANUARY, 2020
4	A Double Frequency Ripple Suppression Control on Quasi Z- Source Inverter,	NPEC 2018	Thiagarajar College of Engineering, Madurai	MARCH, 2018
5	Performance Evaluation of Seven Level Cascaded H-Bridge Quasi Z-Source Inverter using Fuzzy Logic Controller	National Conference on Recent Advances in Pure and Applied Mathematics	Arul Ananandar College, Madurai.	MARCH, 2017

6.	Analysis of Seven Level Cascaded H-Bridge Quasi Z- Source Inverter	International Conference on Intelligent Computing and	NSN College of Engineering and Technology, Karur	FEBRUARY, 2017
7.	Quasi Z-Source Inverter with Battery for PV Power Generation Sytem	Systems ICIIECS'16	Karpagam College of Engineering, Coimbatore.	MARCH,2016
8.	A Z-Source Five-Level Inverter with Common Mode Voltage Elimination for Induction Motor Drives	ICIIECS'15	Karpagam College of Engineering, Coimbatore.	MARCH, 2015
9.	FPGA Implementation of Z- Source Multi-level Inverter for Induction Motor Drives	Emerging Trends in Power System and Power Electronics & Drives	Mahath Amma Institute of Engineering& Technology, Pudukootai	SEPTEMBER, 2013
10.	Performance Analysis of Z- Source Cascaded H-Bridge Multilevel Inverter Based on Multicarrier PWM Techniques	Emerging Trends in Electrical Engineering	Maria College of Engineering & Technology, Kanyakumari.	MARCH,2013
11.	Performance Evaluation of Z- Source Cascaded H-Bridge Multilevel Inverter Based On Multicarrier PWM Techniques	Emerging Trends in Engineering	MET's School of Engineering, Mala, Thrissur	JANUARY,2013
12.	Solar Integrated Current Fed Quasi Z-source Inverter with Power Buck-Boost Capability	IEEE-ICAESM- 2012	E.G.S Pillay Engineering College, Nagapattinam	MARCH, 2012
13.	Voltage Buck-Boost using Current-Fed Quasi-Z-Source Inverter	ENGGPOS	Karpagam University, Coimbatore.	DECEMBER, 2011
14.	Single DC Source Cascaded H- Bridge Multilevel Inverter Using Three Phase Transformers For Three Phase Applications	2 nd National Conference on Advancement in Electrical Sciences	SNS College of Technology, Coimbatore	FEBRUARY, 2011
15.	Analysis of Resonance Complications on Z-Source Current Type Inverter Fed Induction Motor Drive	Information, Communication and Electrical Technologies	Velammal College of Engineering &Technology, Madurai	FEBRUARY, 2009

International Journal Publication

S. No	Title of the Paper	Name of the Journal	Vol. No &Page No & year
1	Optimal Battery Selection for Electric Vehicles using ELECTRE	Indian Journal of Natural Sciences	Vol. 13, pp. 49663-49669,2022

2.	Optimization of Inventory Model for Electrical Power Consumption of Two Transmission Stations with Different Demand Patterns and New Costs Parameters.	Solid State Technology	Vol. 63, pp. 1-15, 2020
3.	Concurrent production and rework inventory management of electrical components	Advances in Mathematics: Scientific Journal	Vol. 9, pp. 3175- 3180,2020
4.	Quasi Z-Source Resonant DC-DC Converter with Improved Voltage Gain	Test Engineering and management	Vol. 82, pp. 10675- 10680,2020
5.	Fuzzy Logic Controlled PV Based Quasi Impedance Source Inverter for Charge Balancing	International Journal of Innovative Technology and Exploring Engineering	ISSN: 2278-3075, Volume-9 Issue-1, 2019
6.	Intervention of Environmental Engineering Principles in the Investigation of the Viable Air Pollution Mitigation Methods with IFS Tool.	International Journal of Innovative Technology and Exploring Engineering	ISSN: 2278- 3075,Volume 8, Issue 4,pp 277-280,2019
7.	Application of New Additive Ratio Assessment (NARAS) Method in Selection of Material for Optimal Design of Engineering Components	Materials Today: Proceedings	ISSN: 2214-785 "Volume 11, pp1049- 1053,2019.
8.	Design and analysis of Z-source based 7 level cascaded multi level inverter for induction motor.	IEICE Electronics Express	vol. 14, pp. 20170940- 20170940, 2017.
9.	Performance Evaluation of Seven Level Cascaded H-Bridge Quasi Z - Source Inverter Using Fuzzy Logic Controller.	Middle-East Journal of Scientific Research	Vol.25,issue 2,PP 341-347,2017.
10.	Three phase z-source neutral point clamped inverter with multicarrier PWM technique.	The international journal for computation and mathematics in electrical and electronic engineering.	Vol. 35,Issue5 , pp 1575-1591,2016.
11.	A Quasi Z-source inverter with battery for PV Power Generation System	Pakistan Journal of Biotechnology	Vol.13, special issue, pp.337-341,2016.
12.	A Z-Source Five Level Inverter with Common Mode Voltage Elimination For Induction Motor Drives.	International Journal of Applied Engineering Research(IJAER)	Vol.1, No. 20, pp. 16862-16868, 2015.
13.	FPGA Implementation of Z-source multilevel inverter fed induction motor drives.	International Review of Electrical Engineering (IREE)	Vol.9 ,Issue 4,pp.735-742,2014.

14.	A Comparison of Multi-carrier PWM Techniques with Z-Source Five Level Diode Point Clamped Inverter.	IOSR-Journal of Electrical and Electronics Engineering (IOSR-JEEE),	Vol.9,Issue 1, pp.14- 19,2014.
15.	Analysis of Resonance Complications on Z-Source Current Type Inverter Fed Induction Motor Drive.	International Journal of Engineering and Innovative Technology	Vol.2, Issue 9,pp.181- 186,2013.
16.	Performance Analysis of Z-Source Cascaded H-bridge Multilevel Inverter Based on Multi Carrier PWM Techniques.	International Journal of Mordern Engineering Research.	Vol.3, Issue6, 2013
17.	Power Buck-Boost using Current-Fed Quasi Impedance Source Inverter,	European Journal of Scientific Research (EJSR)	Vol.81,Issue 2,pp 263- 269,2012.

Short term Courses / Seminars / Conference/ Workshops Attended:

S.No	Title	Period	venue
1.	One day seminar on "ELECTROMAGNETIC INTERFERENCE AND HARMONIC REDUCTION TECHNIQUES"	21st April 2022	PSNA College of Engineering and Technology, Dindigul.
2.	Online short term course titled "Electromagnetics: Recent Trends and Future Applications"	February 28, 2022 to March 05, 2022.	The Department of Electrical Engineering, IIT Indore
3.	STTP on "Electric Vehicle Integration Into Mordern Power Networks-Challenges and solution Approaches"	4th April 2022 to 8th April 2022	Vellore Institute of Technology, Chennai.
4.	AICTE Training And Learning (ATAL) Academy Online FDP on "Robotics"	4 th Jan 2021 to 8 th Jan 2021	Dhanekula Institute Of Engineering And Technology.
5.	AICTE Sponsored Two weeks Online Faculty Development Program on "Electric Vehicles with Smart Grid Integration"(Phase-2)	19-04-2021 to 30-04- 2021	Bonam Venkata Chalamayya Institute of Technology & Science, Amalapuram, Andhra Pradesh,
6.	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "ELECTRIC VEHICLES"	7 th june 2021 to 11 th june 2021	National Institute of Technology, Tiruchirappalli
7.	One week online STTP on" RECENT ADVANCES IN EV TECHNOLOGIES, (Series-C)	14 th june 2021 to 19 th june 2021	Matrusri Engineering College, Hyderabad
8.	AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "EMINENCE OF ELECTRIC VEHICLES AND ROBOTICS IN AGRONOMY".	21st June 2021 to 25 th June 2021	Dhanalakshmi Srinivasan Engineering College.

9.	AICTE Training And Learning (ATAL) Academy Online FDP on "Sensors Technology".	17 th Aug 2020 to 21 st Aug 2020	St.Joseph's Institute of Technology.Chennai
10.	One week online STTP on "Role of Smart Technology in Maritime Industries".	23 rd to 28 th November 2020	AMET Deemed University, Chennai
11.	AICTE sponsored STTP on"AI-Based Novel Power Distribution and Correction Technology".	30 th November 2020 to 5 th December 2020	Sengunthar Engineering College, Tiruchengode
12.	Two-week AICTE sponsored FDP on"Cutting Edge Trends in Deep Learning Approaches".	07 th Dec 2020 to 22 nd Dec 2020	Kongu Engineering College, Erode
13.	AICTE Training And Learning (ATAL) Academy Online FDP on "Energy Engineering".	21st Dec 2020 to 25th Dec 2020	Government College of Engineering, Thanjavur.
14.	AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)	26 th Dec to 30 th Dec 2020	National Institute of Technology Puducherry.
15.	National Seminar on "Fuel Cell Energy Conversion System"	3 rd March 2018	PSNA College of Engineering and Technology, Dindigul.
16.	International Workshop on "Writing and Publishing Research Papers inn High Impact Factor Journals "	26 th December, 2016	PSNA College of Engineering and Technology, Dindigul.
17.	Two days Workshop on "Hardware in the loop simulation for Power Electronics and Control applications using labVIEW"	December 16-17, 2016	Mepco Schlenk Engineering College, Sivakasi
18.	IEEE Student Branch Sponsored National Level Workshop on"Simulation of IEEE Transaction Papers on Multilevel Inverters",	19 th December 2015	Karpagam College of Engineering, Coimbatore
19.	Four day FDP on "Effective Communication"	23 rd to 26 th November 2015	PSNA College of Engineering and Technology, Dindigul.
20.	TEQIP Sponsored Two-day FDP on "Research Issues and Emerging Trends in Control Systems Engineering	14 th &15 th February 2014	TCE , Madurai.

Online Certification Completed:

S. No	Certification	Period	Organizers	Remarks
1.	NPTEL online certification on "Electrical Machines-I".	12 weeks	IIT Kharagpur	Certified

2.	NPTEL online certification on" Analog Circuits".	8 weeks	IIT Bombay	Certified
3.	NPTEL online certification on" Patent Drafting for Beginners"	4 weeks	IITM	Certified
4.	NPTEL online certification on"Design and Simulation of Power Conversion using open- source tools"	4 weeks	IISC,Banglore	Certified
5.	Udemy certificate on"Robotics"		Udemy	Certified
6.	Udemy Certificate on" Latex A-Z from Beginner to Advance".		Udemy	Certified
7.	Cousera certificate on" Electrical Power Systems"		Coursera	Certified
8.	Cousera certificate on" Introduction to Electronics"		Coursera	Certified
9.	Cousera certificate on" Cyber security and the Internet of Things"		Coursera	Certified
10.	Cousera certificate on" Wind Energy"		Coursera	Certified
11.	Cousera certificate on" Matrix Algebra for Engineers"		Coursera	Certified
12.	Cousera certificate on" Solar Energy Basics"		Coursera	Certified
13.	Cousera certificate on" Create Informative Presentation using Google Slides"		Coursera	Certified
14.	Cousera certificate on" Electric Utilities Fundamental and Future"		Coursera	Certified

Industrial Training Attended:

S. No	Training Details	Period	Company Details
1.	Certification to conduct training programmed in Switchgear, Protection & Safety employing VOLTECH products	20.05.2019 to 25.05.2019	Voltech, Chennai
2.	5 days training program on "IIoT& Industry 4.0-Basics and Implementation	16.08.2019 to 21.08.2019	Bluetronics, Bengluru

List of Patent Published:

S. No	Title of the Invention	Application Number	Publication Date
1.	Solar power assisted ventilated face mask with y	20214015559A	11/06/21
	bone separator.		

3. Membership in Professional bodies :

Name of Society	Grade of Membership
ISTE	Life Member

4. Additional Responsibilities held:

- o Member in the NBA/NAAC for the file preparation for Direct Assessment Criteria.
- o Coordinator for Attendance Monitoring
- o Member in the Assessment Entry for the students in the Anna University Web Portal.
- o Served as a Mentor/Tutor.

5. Awards & Reconizations:

- > GOT UNIVERSITY SECOND RANK from ANNA UNIVERSITY TIRUCHIRAPPALLI IN ME POWER ELECTRONICS AND DRIVES.
- Chaired a session in the International Conference on Computing, Communication, Nanophotonics, Nanoscience, Nanomaterials and Nanotechnology (12C4N-2K16) Organized by Holy Grace Academy of Engineering, Thrissur, Kerala.