

## Faculty Profile

### **Dr. J. Jency Joseph**

Assistant Professor (AGP 7000)

Department of Electrical and Electronics Engineering

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<https://scholar.google.com/citations?hl=en&user=9x6eZc8AAAAJ>



### **Academic Background**

Degree	Branch	University	Year
Ph.D	Electrical Engineering	Anna University, Chennai	2019
M.E.	Electric Drives and Embedded Control	Anna University, Chennai	2007
B.E	Electrical and Electronics Engineering	Anna University, Chennai	2002

### **Professional Experience**

Name & address of the Institution/ Organization	Post held	Period of service	
		From	To
Karunya Institute of Technology and Sciences (A Deemed University), Karunya Nagar, Coimbatore	Assistant Professor	1 <sup>st</sup> September 2011	<b>Till Date</b>
	Lecturer	11 <sup>th</sup> June 2007	31 <sup>st</sup> Aug 2011
<b>Total Experience = 15 Years 7 months</b>			

### **Research Areas**

- FEM(Finite Element Method) Analysis of electric Machines
- Electric Vehicle (EV) Design and Analysis
- Power Converters
- Battery Energy Management Techniques
- Machine Learning Techniques for the design of propulsion system in EVs.
- Selection of Motors and Power converters of EVs.
- Modern Electric Drives for EV

### **Recent Courses Taught**

- Power Electronics for Renewable Energy
- Python for Electrical Engineering
- Applications of Python programming
- Electric Drives and Control
- Modelling of Electric and Hybrid Vehicle
- Programming for Problem Solving(C programming)
- Object Oriented Programming in C++
- Object Oriented Programming in JAVA
- Renewable Energy
- Fundamentals of Renewable Energy Resources

## Responsibilities Held

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- EEE Department Placement Coordinator
- EEE Department Student's Association - "ELECTRA"- In charge

## Membership in Professional Societies

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- Life Member ISTE (India Society for Technical Education) - LM 108319

## Academic Performance Index

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- Publications in International Journals - 20
- Participation and Presentation in International / National Conferences - 6
- Participation in FDP / Workshops / STTP / Seminars / Guest Lectures - 14
- FDP / Workshops / Seminars / Guest Lectures Organized - 4
- Awards and achievements - 2
- Ph.D Guiding - 2
- M.E / M.Tech. Project Guided - 10
- Short-Term Grants received - 2
- Funding project proposal submitted - 2

## Significant Achievements

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- Received a Short-Term Grant (Seed Money for Research) of Rs. 6,000/- during Odd Semester 2020-21.
- Guided Mr. Andrew Charles (Final year 2012 Batch) with the Short-term fund of Rs. 12,000/- under Karunya University Short Term Grant.

## Industry Collaborations / Interactions

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- Ampere Electric Ltd., Coimbatore
- Versa Drives Pvt. Ltd, Coimbatore

## Recent Scopus Publications:

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1. J. Jency Joseph, et. Al, "Weather observation and forecasting using radiosonde", *Telkomnika (Telecommunication Computing Electronics and Control)*, Volume 20, Issue 6, Pages 1376 – 1383, December 2022
2. J. Jency Joseph, et. Al, "A novel symmetrical three level boost DC-AC converter for electric vehicles with reduced switch counts", *Materials Today: Proceedings*, 2022, Vol. 65, pp. 235-241.
3. J.Jency Joseph, et. Al, "Machine learning based smart weather prediction", *Indonesian Journal of Electrical Engineering and Computer Science*, Volume 28, Issue 1, Pages 508 – 515, October 2022.

4. J.Jency Joseph, et. Al, "Penetration Estimation in SEM, EDAX Dental Imaging Systems for Desensitization Application", *Electronics (Switzerland)*, Volume 11, Issue 19, October 2022
5. J.Jency Joseph, et. Al,"Review and Analysis on Hybrid Control of Fault Ride through and Transient Stability of Vsc-Hvdc", *Journal of Pharmaceutical Negative Results*, Volume 13, Pages 2181 – 2187, 2022
6. J.Jency Joseph, et. Al, "A Research Study on Various Control for Speed Control of BLDC Motor", *13th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2022*, Volume 8, Pages 616 – 6211, January 2022.
7. J.Jency Joseph, et. Al ,"Handy Reader - A Shopping Guide To Visionless Using RaspberryPi", *Proceedings - 4th International Conference on Smart Systems and Inventive Technology, ICSSIT 2022*,Pages 715 – 719,2022
8. J.Jency Joseph, et. Al, "A test bench on quality checking for electric vehicle chargers", *Materials Today: Proceedings*, 2021, Vol. 45, pp. 8176–8181.
9. J.Jency Joseph, et. Al, "Dynamic Performance Analysis of Electrified Propulsion System in Electric Vehicle", *International Journal of Vehicle Autonomous Systems - INDERSCIENCE Publishers*, 2020 Vol. 15, Issue 1, pp. 26 – 49.
10. J.Jency Joseph, et. Al, "Analysis of Power Electronic Converters for Electric Vehicle Applications", *Journal of Physics: Conference Series*, 2019, Vol. 1362, pp. 1 -10.
11. J.Jency Joseph, et. Al, "Parametric Analysis of Axial Flux HUB Motor for Electric Vehicle in Rural Areas", *International Journal of Heavy Vehicle Systems*, INDERSCIENCE Publishers, 2018, Vol. 25, Issue 3-4, pp. 258-270.
12. J.Jency Joseph, et. Al, "High Conversion Ratio Power Converter for Electric Vehicle Application", *International Journal of Engineering and Technology (UAE)*, 2018, Vol.7, No. 3.34, pp. 944-947.