

Dr. Josephine.R.L

Assistant Professor

Dept. of Electrical and Electrical Engineering



1. Employment Profile

Post Held	Name of the Employer	From	To
Assistant Professor	National Institute of Technology, Trichy	20-03-2018	Till date
Associate Professor	Sri Krishna College of Technology, Coimbatore	21-06-2017	19-03-2018
Assistant Professor (Senior Grade)	PSG Institute of Technology and Applied Research, Coimbatore	01-06-2016	31-05-2017
Research Scholar (Full Time)	Coimbatore Institute of Technology (CIT), Coimbatore	26-12-2013	27-01-2016
Assistant Professor	PSG College of Technology, Coimbatore	01-09-2010	30-11-2011
Lecturer	PSG College of Technology, Coimbatore	01-06-2009	31-08-2010

2. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	Anna University	2016	-	Electrical Engineering
M.Tech	National Institute of Technology, Trichy	2009	8.77 / First Class with Distinction	Power Electronics
B.E	Anna University	2006	81% / First Class with Distinction	Electrical & Electronics Engineering
XII	Tamilnadu State Board	2002	84%	
X	Tamilnadu Matriculation Board	2000	85%	

3. Academic/Administrative Responsibilities within the Institute

Position	Faculty/Department/Centre/Institution	From	To
NBA Coordinator	Sri Krishna College of Technology, Coimbatore.	23-06-2017	31-12-2017
Research Coordinator	Sri Krishna College of Technology, Coimbatore.	23-06-2017	31-12-2017

4. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2013	Best Paper Award	PSG College of Technology (ICIEES 2013)
2009	Academic Rank Holder - Award	NIT Trichy
2006	Academic Topper	Sri Krishna College of Technology

5. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2007	GATE Scholarship	NIT Trichy	July 2007	June 2009

6. Details of Academic Work

(i) Curriculum Development :-

Experiments revamped and developed in Power Systems Simulation Laboratory, Sri Krishna College of Technology, Coimbatore.

(ii) Courses taught at Postgraduate and Undergraduate levels :-

Subjects taught for UG:

- Power Electronics & Drives
- Solid State Drives
- Electronic Circuits
- Electronic Devices
- Computer Networks
- High Voltage Engineering

Subjects taught for PG:

- Industrial Drives & Control

(iii) Projects guided at Postgraduate level :-

- Simulation of Incremental Conductance MPPT with Direct Control and Fuzzy Logic Method using Sepic Converter
- PWM Control for Hybrid Clamped Multilevel Inverters

- A Control Strategy for Four – Switch- Three –Phase BLDC Motor
- Multilevel Inverter for Grid Connected PV Systems
- Modeling and Control of Wind Energy Conversion System Equipped with DFIG

7. Research Interest

- Power Electronics
- Renewable Energy Systems
- Power Quality
- Applications of Nanotechnology in Electronics

8. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Sathiyathan. M	Design and Analysis of Power Converters with Intelligent Controllers for Hybrid Renewable Energy Systems	Co-Supervisor	On-going

9. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Effective Early Detection of Tiny Ovarian Tumors using Synthetic Biomarkers – A Cancer Nanomedicine	National (Funded by ICMR, Delhi)	28-12-2017 & 29-12-2017	Organizing Secretary	Sri Krishna College of Technology, Coimbatore
IoT - a Glocal Perspective	Local	05-08-2017	Organizing Secretary	Sri Krishna College of Technology, Coimbatore
System Identification & Control Design	National (Funded by National Instruments, Bangalore)	22-04-2010 & 23-04-2010	Coordinator	PSG College of Technology, Coimbatore

10. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year
Josephine R L & Suja S	Estimating PMSG wind turbines by inertia and droop control schemes with intelligent fuzzy controller in Indian development	Journal of Electrical Engineering and Technology	Vol.9	1196-1201	2014
Josephine R L, Suja S & Karunambika,	Combination of fixed configuration and reconfiguration method for maximum power extraction from PV arrays	Advances in Applied Sciences	vol.8	67-72	2014
Josephine R L, Suja S	Experimental Investigations with Fuzzy Controller for PV fed DC Motor Incorporating SEPIC Converter as Efficient Power Interface	Applied Mechanics and Materials	vol. 550	110-125	2014
Magimai Antoni D, Dhayal Raj A, Albert A, Josephine R L	One step synthesis, optimization and growth mechanism carambola fruit shaped CuO nanostructures: electrochromic performance	Materials in Electronics, Springer	vol. 26,	659-665	2014
Josephine R L, Suja S, Karunambika, G, Nagendra Rao A & Karthik	Effective utilization and efficient maximum power extraction in partially shaded photovoltaic systems using minimum-distance-average-based clustering algorithm	IET Renewable Power Generation	vol.10	319-326	2015
Karthikeyan, Dhayal Raj A & Josephine R L,	Effect of precursor concentration on the properties of lanthanum oxide nanostructures	Materials Today: Proceedings, Elsevier,	vol. 2,	4390 - 4394	2015
Josephine R L, Suja S & Jovitha Jerome	Encompassing nine switch converter approach in wind hydro power system feeding three phase three wire dynamic loads	International Journal of Electrical Power and Energy Systems, Elsevier	vol.79	66-74	2016
Josephine R L, Suja S & Dhayal Raj A	Comparison of optical, structural, morphological, vibrational and thermal analysis of V ₂ O ₅ nanobelts prepared with and without the application of constant current source from renewable energy	International Journal for Light and Electron Optics, Elsevier	vol.127	3299-3302	2016

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Josephine R L , Elizabeth Jose	Automated switching of consumer loads in a three phase feeder system	Proceedings of National Symposium for Post Graduate Students (NSPGS)	239 – 244	Control systems and Automation	PSG College of Technology	2010.
Rajasekara P & Josephine R L	A control Strategy for Four Switch Three Phase Brushless DC Motor	Proceedings of National Symposium for Post Graduate Students (NSPGS)	289 – 294	Control systems and Automation	PSG College of Technology	2010.
Padma Beaula A, & Josephine R L	PWM control for hybrid clamped multilevel inverters.	Proceedings of the conference on Control Systems and Automation (CCSA)	41 – 45	Control systems and Automation	PSG College of Technology	2011
Josephine R L , & Manju Parkavi V	Simulation of incremental conductance MPPT with direct control and fuzzy logic methods using SEPIC converter	Proceedings of National Conference on Control, Instrumentation and Automation (NCCIA)	74 – 80	Control, Instrumentation and Automation	PSG College of Technology	2011
Josephine R L & Suja S	Frequency control in Wind Energy Systems by Inertia and Droop control techniques with fuzzy Logic Scheme for Squirrel Cage Asynchronous Generator	International Conference on Intelligent and Efficient Electrical Systems (ICIEES)		Sustainable Energy	PSG College of Technology	2013
Josephine R L , Suja S & Vidhya N	Energy Management in Renewable System Incorporating Optimization using Domestic Controller	Advances in Control and Computing of Analog and Digital Systems (ACCADS)	79-87	Renewable Energy Systems	Coimbatore Institute of Technology	2014
Josephine R L , Suja S & Karunambika G	Effect of Partial Shading Conditions in PV Arrays Using Flipped H, Circular Rotation, Up Down and Inverted Triangle Methods	47 th Annual Frontiers of Power Conference		Power Technologies	Oklahoma State University	2014
Josephine R L , Vimal Raj, Mauryan	A novel single phase AC-AC Converter using four controlled switches	50 th Annual Frontiers of Power Conference		Cyber Physical Energy Systems, Resiliency, Reliability and Renewability	Oklahoma State University Oklahoma	2017

(C) Patents

S.No	Title	Details	Status
1	Smart And Automatic Electricity Bill Generation System Using Internet Of Things	1341/CHE/2018	Published in IPR Journal