



KINGS
COLLEGE OF ENGINEERING
AUTONOMOUS

Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
Recognized under 2(f) & 12B, UGC
NAAC Accredited Institution

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Name : Dr.L.Maheswari	
Designation:	Assistant Professor
Qualification:	M.E., PhD.,
Area of Specialization:	Photovoltaic system and its power Converters
Experience:	Teaching: 4 Yrs.
	Industry: -NIL
No. of workshop / Conferences / FDP attended :	Conference:8 FDP attended:23
Publication :	Journal International: 13
	Conference • Nationa1:1 • International: 6
Membership :	ISTE life
Achievements :	• University rank holder in the UG • University rank holder in the PG • Visvesvaraya Research Fellow - MeitY's Ministry of Electronics and Information Technology, Government of India

Workshop / Conferences / FDP attended :

PUBLICATIONS

1. Maheswari, L., & Sivakumaran, N. (2020). An isolated single-switch high step-up DC/DC converter with three-winding transformer for solar photovoltaic applications. *Electrical Engineering*, 102(3), 1383-1392. <https://doi.org/10.1007/s00202-020-00959-y>
2. Maheswari, L., Sivakumaran, N., Balasubramanian, K. R., & Ilango, G. S. (2020). A unique control strategy to improve the life cycle of the battery and to reduce the thermal runaway for electric vehicle applications. *Journal of Thermal Analysis and Calorimetry*, 141(6), 2541-2553. <https://doi.org/10.1007/s10973-020-09673-0>
3. Senthilkumar, M., Balasubramanian, K. R., Kottala, R. K., Sivapirakasam, S. P., & Maheswari, L. (2020). Characterization of form-stable phase-change material for solar photovoltaic cooling. *Journal of Thermal Analysis and Calorimetry*, 1-10.
4. Maheswari, L., Rao, P. S., Sivakumaran, N., Ilango, G. S., & Nagamani, C. (2017). A control strategy to enhance the life time of the battery in a stand-alone PV system with DC loads. *IET Power Electronics*, 10(9), 1087-1094. DOI: 10.1049/iet-pel.2016.0735
5. Anand, S., Senthil Kumar, M., Balasubramanian, K. R., Ajith Krishnan, R., & Maheswari, L. (2019). An experimental study on thermal management of concentrated photovoltaic cell using loop heat pipe and heat sink. *Heat Transf Asian Res*, 48, 2456-77.
6. Maheswari, L., Sornavadivu, R., & Vijayalakshmi, S. (2014). Modeling and simulation of buck converter for charging battery by solar Photovoltaic system. In *Applied Mechanics and Materials* (Vol. 592, pp. 2379-2385).
7.]Lakshmi, S. V., Raja, T., Sornavadivu, R., Maheswari, L., & Mani, K. R. (2014). Time Domain Based Digital Controller for Sepic Converter. *Applied Mechanics and Materials* (Vol. 573, pp. 130-135).
8. M. Senthil Kumar, K.R. Balasubramanian, L. Maheswari, (2019), Effect of Temperature on Solar Photovoltaic Panel Efficiency, *International Journal of Engineering and Advanced*

Technology (IJEAT), (Vol. 8, pp. 2593-2595).

9. M. Senthil Kumar, Balasubramanian, K. R., Maheswari, L., & Sivakumaran, N. (2019). Thermal performance of phase change material-based heat sink for solar photovoltaic cooling. International Journal of Innovative Technology and Exploring Engineering, 8(9), 3320-3323.
10. Vadivoo, R.S., Maheswari, L., Vijayalakshmi, S., & Vairamani, K. (2014). Design and Modeling of ZVS Resonant SEPIC Converter for High Frequency Applications. International Journal of Innovative Research in Science, Engineering and Technology, (Vol. 3, pp.315-322)
11. Maheswari, L., Vadivoo, R.S., & Vijayalakshmi, S. (2014). COMPARISON OF LINEAR AND NON-LINEAR CONTROLLERS, International Journal of Innovative Research in Science, Engineering and Technology, (Vol. 3, pp.315-322)
12. L.Maheswari, R. Sorna Vadivoo S. Vijayalakshmi, (2015). Design and Implementation of Generalized Proportional Integral Controller for Buck Converter. Journal of Electrical Engineering, (Vol.15, pp.31-38).
13. Ravi Kumar Kottala, Balasubramanian Karuppudayar Ramaraj, Jinshah B S., Muthya Goud Vempally & Maheswari Lakshmanan, (2022). Experimental investigation and neural network modeling of binary eutectic/ expanded graphite composites for medium temperature thermal energy storage. Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, <https://doi.org/10.1080/15567036.2022.2043490>
14. Dr. L. Maheswari, Gayathri K C, Sujitha S, Vaishnavi V 6th International Conference on Computational Intelligence and Industry 5.0 - on March 21st and 22nd 2025 at Velammal Institute of Technology-AI Controlled Solar Powered Smart Umbrella for Agricultural Technology, ISBN number (978-81-967851-2-3).

Book Published/ Book Chapter/Monographs

Lakshmanan, Maheswari., Karnan, H., & Natarajan, S. (2020). Smart diagnosis of cardiac arrhythmias using optimal feature rank score algorithm for solar based energy storage ECG acquisition system. In Smart Healthcare for Disease Diagnosis and Prevention (pp. 125-139). AcademicPress.ELSEVIER.<https://doi.org/10.1016/B978-0-12-817913-0.00014-6>.

FDP Attended

Sl. No.	Title	Organization/Place	Duration
1.	AI Tools for Research	National level capacity building programme under	29.06.2025
2.	Renewable Energy and Electric Vehicles Technology for Sustainable Future at J.J. College of Engineering and Technology	All India Council For Technical Education, New Delhi	16/12/2024 to 21/12/2024
3.	Electric Vehicles: Technology, Power System, Energy Management, Testing and Certification	Pimpri Chinchwad College Of Engineering .	23/12/2024 to 28/12/2024.
4.	Recent Advancements in Solar Photovoltaic Technology & Research Opportunities	Government Polytechnic Nagpur	13/01/2025 to 18/01/2025
5.	Exploring Advanced Data Science Tools Techniques and Trends	Anand Institute Of Higher Technology	09/12/2024 to 14/12/2024.
6.	Introduction to smart grids and their application in modern power system.	Poornima college of Engineering	07/04/2024 to 11/04/2024.
7.	Two-weeks FDP on Leveraging Advanced Power Conversion Systems and Artificial Intelligence for Electric Vehicles”	Electronics and ICT Academy, NIT Patna and NIT Tiruchirappalli under the “Scheme of financial assistance for setting up of Electronics and ICT Academies (Phase-II)	08/05/2025 to 21/05/2025
8.	Sustainable Development Goals -Interventions and Schemes of Govt. of India	NITTTR, Chandigarh	17/02/2025 to 21/02/2025
9.	Machine Learning & Deep Learning for educators:	Poornima College of Engineering, Jaipur, Rajasthan.	23/06/25- 27/06/25

	Building a foundation for future skills”		
10.	Modelling and Simulation of Engineering Systems	National Institute of Technology. Tiruchirappalli under A.C.T academy	23.03.2018 to 24.03.2018
11.	Process Instrumentation and control	National Institute of Technology. Tiruchirappalli.	04.07.2016 to 09.07.2016
12.	Advanced control Engineering	National Institute of Technology. Tiruchirappalli.	9.10.2015 to 10.10.2015
13.	Industrial Automation	National Institute of Technology. Tiruchirappalli.	17.08.2015 to 19.08.2015
14.	Effective Teaching Learning Process in Technical Education	National Institute of Technology. Tiruchirappalli.	26.09.2014 to 27.09.2014
15.	Quantitative research Techniques and tools for engineers and Researchers	National Institute of Technology. Tiruchirappalli.	10.06.2013 to 14.06.2013
16.	Two days Skill development Workshop on PCB routing design and fabrication.	Saranathan College of Engineering. Tiruchirappalli.	04.05.2013 to 05.05.2013
17.	Quantitative research techniques and tools for engineers and researchers.	National Institute of Technology. Tiruchirappalli.	10.06.2013 to 14.06.2013
18.	Two days Workshop on wind driven generators.	National Institute of Technology. Tiruchirappalli.	13.11.2013 to 14.11.2013
19.	Renewable Energy -Energy for the future.	M.I.E.T Engineering College. Tiruchirappalli.	18.08.2005
20.	Faculty Development Programme on Total Quality Management.	Periyar Maniammai college of Technology for women. Thanjavur.	22.11.2004 to 26.11.2004
21.	Environment and pollution awareness.	Anjalai Ammal Mahalingam Engineering College.Kovilvenni.	24.09.2004
22.	College for Leadership and Human Resource Development	Anjalai Ammal Mahalingam Engineering College.Kovilvenni.	11.12.2003 to 13.12.2003
23.	15 days In- Plant Training.	Bharath Heavy Electrical limited. Tiruchirappalli.	09.06.2003 to 21.06.2003

Reviewer

1. As Reviewer for Springer nature on scientific reports in 2025
2. As Reviewer for two Iranian Journal of Science and Technology, Transactions of Electrical Engineering on 2025.