SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

Pulloor, Kariapatti –Taluk. Virudhunagar Dist-626115.

Department of Electrical and Electronics Engineering

Name	*Dr.S.Sugumar*		
Date of Birth	01-04-1983		
Unique ID	*1-73308411133*		
Educational Qualifications	*Ph.D*		
Designation	Associate Professor		
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Experience	Teaching	Total	
	17	17	
Date of Joining the Institution	24-05-2019		
Area of Specialization	***Power Electronics and Drives***		
Courses taught	Electric Circuit Analysis, Power Electronics, Digital Logic Circuits, Principles of Electronics, Basic Electrical and Electronics Engineering, Energy Management and Auditing		
Research Focus	***Renewable Energy, and Battery Management in EVs***		
Subject Competency	Electric Circuit Analysis, Power Electronics, Digital Logic Circuits, Machine Learning and Deep Learning		
No. of papers published	International Journals		
	5		
PG Specialization	***Power Electronics and Drives***		
Ph.D. Specialization	***Electrical Engineering***		

Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	EEE	Bharathiar University	2004
PG	M.E	Power Electronics and Drives	Anna University - Chennai	2008
Ph.D.	Ph.D	Electrical Engineering	Anna University - Chennai	2024

Details of Journal Publication:

1. Ganesan, K., Winston, D. P., Sugumar, S., & Jegan, S. (2023). Performance analysis of n-type PERT bifacial solar PV module under diverse albedo conditions. *Solar Energy*, *252*, 81–90. https://doi.org/10.1016/J.SOLENER.2023.01.020

2. Ganesan, K., Winston, D. P., Sugumar, S., & Prasath, T. H. (2024). Performance investigation of n-type PERT bifacial solar photovoltaic module installed at different elevations. *Renewable Energy*, *227*. https://doi.org/10.1016/j.renene.2024.120526

3. P, A., D, P. W., S, S., & M, P. (2024). Optimal battery based electrical reconfiguration technique for partial shaded PV system. *Applied Energy*, *361*, 122942. https://doi.org/10.1016/j.apenergy.2024.122942

4. Sugumar, S., Prince Winston, D., & Pravin, M. (2021). A novel on-time partial shading detection technique for electrical reconfiguration in solar PV system. *Solar Energy*, *225*, 1009–1025. https://doi.org/10.1016/j.solener.2021.07.069

5. Sugumar, S., Winston, D. P., Ganesan, K., & Pravin, M. (2023). Comparative analysis of Hybrid, conventional and staircase static reconfiguration methods to mitigate partial shading effects: Unveiling the superiority of two-step staircase (2SS) reconfiguration. *Solar Energy*, *264*, 112029. https://doi.org/10.1016/j.solener.2023.112029