


FACULTY PROFILE

Name of Teaching Staff / RMK ID	M.VIMALA/T0868		
Designation	ASSISTANT PROFESSOR		
Department	ELECTRICAL AND ELECTRONICS ENGINEERING		
Date of Joining the Institution	01-06-2015-Regular Faculty		
Qualifications	B.E -EEE (Regular)	M.E-Power Electronics and Drives (Regular)	PhD (Pursuing) (Part time)
Total Experience	Overall: 9.11		in RMK: 8.11
Papers Published in Journal	Overall : 14		After Joining RMK :13
List of Papers Published	<ol style="list-style-type: none"> 1. Muthu, V., Ramadas, G. Performance studies of Bifacial solar photovoltaic module installed at different orientations: Energy, Exergy, Enviroeconomic, and Exergo-Enviroeconomic analysis. Environ Sci Pollut Res 30, 62704–62715 (2023). https://doi.org/10.1007/s11356-023-26406-6. 2. Vimala, Muthu, Geetha Ramadas, Muthaiya Perarasi, Athikesavan Muthu Manokar, and Ravishankar Sathyamurthy. "A Review of Different Types of Solar Cell Materials Employed in Bifacial Solar Photovoltaic Panel." Energies 16, no. 8 (2023): 3605. 3. Muthu, Vimala, and Geetha Ramadas. "A Comprehensive 4E Study on the Performance of Bifacial Solar Module Installed on Different Ground Surface Colors: An Experimental Study on a Specific Site." Journal of Solar Energy Engineering 145, no. 1 (2022):011012. 4. Muthu, Vimala, and Geetha Ramadas. "Experimental investigation of 4E performance studies of a vertical bifacial solar module during summer and winter." Environmental Science and Pollution Research 29, no. 12 (2022): 17943-17963. 5. Rafeek, Mohamed Thalib Mohamed, Vimala Muthu, MuthuManokar Athikesavan, Ravishankar Sathyamurthy, and Abd Elnaby Kabeel. 		

- "Experimental investigation of an active inclined solarpanel absorber solar still—energy and exergy analysis." *Environmental Science and Pollution Research* 29, no. 10 (2022):14005-14018
6. Vaithilingam, Sivakumar, Vimala Muthu, Muthu Manokar Athikesavan, Asif Afzal, and Ravishankar Sathyamurthy. "Energy and exergy analysis of conventional acrylic solar still with and without copper fins." *Environmental Science and Pollution Research* 29, no. 4 (2022): 6194-6204
 7. Thalib, M. Mohamed, M. Vimala, A. Muthu Manokar, Ravishankar Sathyamurthy, Milad Sadeghzadeh, and Mohsen Sharifpur. "Energy, exergy and economic investigation of passive and active inclined solar still: experimental study." *Journal of Thermal Analysis and Calorimetry* (2021): 1-12.
 8. Muthu Manokar, A., M. Vimala, D. Prince Winston, D. R. Rajendran, Ravishankar Sathyamurthy, and A. E. Kabeel. "Year around distilled water production, energy, and economic analysis of solar stills—a comparative study." *Heat Transfer* 49, no. 6 (2020) : 3651-3662.
 9. Muthu Manokar, A., M. Vimala, D. Prince Winston, D. R. Rajendran, Ravishankar Sathyamurthy, and A. E. Kabeel. "A comparative study of 3E (energy, exergy, and economy) analysis of various solar stills." *Heat Transfer* 49, no. 8 (2020): 4394-4409.
 10. Sasikumar, C., A. Muthu Manokar, M. Vimala, D. Prince Winston, A. E. Kabeel, Ravishankar Sathyamurthy, and Ali J. Chamkha. "Experimental studies on passive inclined solar panel absorber solar still." *Journal of Thermal Analysis and Calorimetry* 139, no. 6 (2020): 3649-3660.
 11. Manokar, A. Muthu, M. Vimala, Ravishankar Sathyamurthy, A.E. Kabeel, D. Prince Winston, and Ali J. Chamkha. "Enhancement of potable water production from an inclined photovoltaic panel absorber solar still by integrating with flat-plate collector." *Environment, Development and Sustainability* 22, no. 5 (2020): 4145-4167.
 12. A.Muthu Manokar*, M.Vimala, D.Prince Winston, R. Ramesh, P.K.Nagarajan, R. Bharathwaaj, Ravishankar S, "Different parameter affecting the rate of condensation on active solar still –A Review", *Environmental Progress & Sustainable Energy*, John Wiley & Sons, Impact Factor: 2.842 (Indexed in SCI, Web of Science and SCOPUS)
 13. A.Muthu Manokar, Dr.D.Prince Winston, M.Vimala, "Performance Analysis Of Parabolic Trough Concentrating Photovoltaic Thermal System", *Procedia Technology*, Elsevier, Volume 24, Pages 485 – 491, 2016.
 14. Vimala, M., and C. Chellamuthu. "Harmonic analysis of multilevel inverter driven by variable speed wind electric generator." In *Green Computing, Communication and Conservation of Energy (ICGCE)*, 2013

	International Conference on, pp. 409-414. IEEE, 2013.	
Papers Presented in Conferences (Scopus / WoS indexed only)	Overall: 7	After Joining RMK :6
Ph.Ds / Projects Guided	Ph.Ds Guided :	Student Projects Guided :8
Books Published:	Nil	
Patents	Published Count :2	Granted Count :Nil
	List : Published <ol style="list-style-type: none"> 1. Smartphone Controlled End-Effector 2. A low cost auto tracking solar panel cell phone charger 	
Professional Memberships	Count :3	
	List : <ol style="list-style-type: none"> 1. Indian Society for Technical Education 2. Renewable Energy CPD Professional Membership 3. The Institution of Engineers (India) 	
Consultancy Projects Completed	Count :3	
Awards Received	Count : 1	
	List : <ol style="list-style-type: none"> 1. Best project award 2. Best Energy Professional Conservator category 	
Research grants Received	Nil	
Orchid Link / ID	https://orcid.org/0000-0001-8559-2153	
Google Scholar Link / ID	https://scholar.google.com/citations?hl=en&user=ob3iGMoAAAAJ	
Vidwan Link / ID	ID : 305208	
Research Gate Link / ID	https://www.researchgate.net/profile/Vimala-Muthu	

**Scopus Link /
ID**

<https://www.scopus.com/authid/detail.uri?authorId=57867384600>