K.S.R. College of Engineering,Tiruchengode –637215.

Department of Electrical and Electronics Engineering

Faculty Profile

1. Name	**Dr. R. Sankar Ganesh**	
2. Designation	Associate Professor	
3. Date of Joining	13.09.2007	
4. Specialization	Power Electronics and Drives	
5.Academic Qualification	Ph.D.	
6. Domain Mail ID	sankarganesh@ksrce.ac.in	
7. Experience Details (Chronological)	16 Years & 10 Months	
Teaching: 16 Years & 10 Months	**Industry:** NIL	

Experience & Promotion Details

S. No.	Name of the Organization	Designation	Period	
			From	To
1	K.S.R. College of Engineering	Associate Professor	01.11.2017	Till date
2	K.S.R. College of Engineering	Assistant Professor	01.07.2010	31.10.2017
3	K.S.R. College of Engineering	Lecturer	11.09.2007	30.06.2010
4	K.S.Rangasamy Institute of Technology	Lecturer	08.01.2005	28.11.2006

09. Publication Details:-

S.No	*National Level		*International Level		Google Scholar Citations:
	Journal(s)	Conference(s)	Journal(s)	Conference(s)	h-index :
1	-	7	12	15	03

Google scholar id	Orcid id	Scopus id	Researcher id
VetF_SwAAAAJ	0000-0002-3245-1039	57205497569	ABG-3126-2021

10. Funded Programmes Organized (Seminar/Conference/Workshop/FDP/STTP/Other:-

S.No	Title of the Proposal	Funding Agency Details	Date &Duration		Amount Sanctioned
			From	To	

1.	PMKVY - Maintenance Technician Electrical L4	AICTE	July 2023 to May 2024	Rs. 478125 /-

11. Funded Research Projects:-

S. No	Title of the Project	Name of the Funding Agency	Amount Sanctioned (Rs.)	Role

12. Detail of Book/Book Chapter Published: -

S.No	Title of the Book	Author(s)	Name & Address of the Publisher	Year of Publishing	ISBN no
1.	Sensor and Transducer	Dr.V.Ravi Dr.R.Sankar Ganesh Dr.E.Geetha Dr.M.Vijayakumar Mr.C.Suresh	Scientific International Publishing House	First Edition 2024	978-93-6132-576-2

13. Patents Granted : -

S.No	Patent Application No	Title of Invention	Date of Grant	Date of Expiry
1.	397631-001-14/10/2023	Wind and solar power charging Station for E vehicle	27/12/2023	30.07.2029
2.	363759-001 - 05/05/2022	Face Mask Detector	08/11/2023	

14. Patents Filled : -

S.No	Patent Application No	Title of Invention	Date of Application	Status
1.				
2.				

15. Consultancy Activities (Industry):-

S.No	Title of the Project	Name of the Company	Consultant Amount Received

16. Professional Recognition/Award/Prize, Fellowship/Internship received etc:-

S.No	Name of Award/Fellowship/Internship	Awarding Agency
-	-	-

16. Membership in Professional Bodies:-

- Indian Society for Technical Education (ISTE) - Life Member (TN42385)
-

17. Social media details:-

LinkedIn Profile Link	www.linkedin.com/in/dr-r-sankarganesh-ramasamy-67973822
Instagram Profile Link	-
Facebook Profile Link	-
Youtube Profile Link	www.youtube.com/@R.SankarganeshEEE
Web Page (if any)	-

18. Areas of Interest:

Power Electronics, Power Converters, Power Quality, Electric Vehicle

List of Publications

Guest Lectures (3)

1. Lecture on "Solar Energy Commercialization and its Utility", in the AICTE Sponsored Faculty Development Programme, Conducted at K.S.R. College of Engineering, Tiruchengode, 15th to 28th May 2013.
2. Guest Lecture on "DC Machines", second year EEE students, Conducted by Vidyaa Vikas College of Engineering and Technology, Tiruchengode, 17th Feb 2018.
3. Lecture on "Coupled circuits and magnetic Circuits" in the Anna University approved Faculty Development Programme, Conducted at K.S.R. College of Engineering, Tiruchengode, 26th Nov 2018 to 08th Dec 2018.

National Conferences (7)

1. **Sankarganesh R,** "Input stage of AC drive applications by novel control technique", Muthayemmal Engineering College,Rasipuram.22thand 23rd February 2008.
2. **Sankar GaneshR**, "Improvement of the MPPT Technique for Solar panel using Converter", National Power Engineering Conference, Thiagarajar college of Engineering, Madurai, on 03 Dec 2010.
3. **Sankar Ganesh R**, andLavanya S**,** "PV based LUO Converter with Hybrid Multilevel Inverter for utility System", National Conference on Recent Trends in Electrical Science, Institute of road and Transport Technology,Erode,26th Feb 2015

4. **Sankar Ganesh R,** "Space Vector of Three Phase level Neutral Point Clamped Quasi Z Source Inverter", National Conference on Recent advances in Power Electronics, Embedded and Renewable Energy Systems, K.S.R. College of Engineering, Tiruchengode, 12th March 2015.
5. **Sankar Ganesh R, & Narmatha P** "An optimised inverter with shared power switches based on fuzzy logic controller", National Conference on Recent Advances in Communication, Electronics and Electrical Engineering, Jain University, Bangalore, 3rd Feb 2018.
6. **Sankar Ganesh R, & Gowtham,** "Minimizing travel time and overcoming the peak traffic in cities using embedded system", National Conference on Electric Power and Energy System, Kongunadu college of engineering & technology, Trichy. 24th March 2018.
7. **Sankar Ganesh R, & Nandhini,** "Develop a automatic coconut dehusker and waste pulverizer machine", National Conference on Emerging Trends in engineering and Technology, Nandha college of Technology, Erode. 16th March 2019.

International Conferences (9)

1. **Sankar Ganesh R**,"Maximum Power Point Tracking in PV System using Intelligence Based P&O Technique and Hybrid CUK Converter" International Conference on Emerging Trends in Science, Engineering and Technology, J.J College of Engineering and Technology,Tiruchirappalli on 13th and 14th Dec 2012
2. **Sankar GaneshR**, "Simulation of Photovoltaic Based Grid Connected Micro Inverter using CUK Converter ", International Conference on Engineering Technology and Science, Muthayammal College of Engineering, Namakkal on 10th & 11th Feb 2014
3. **Sankar GaneshR**, and Lavanya R,"Space Vector of Three Phase Three Level Neutral Point Clamped Quasi Z Source Inverter", International Conference on Scientific and Engineering Research-ICSER'15, Vidhya Mandhir Institute of Technology, Tamil Nadu, 20 March 2015.
4. **Sankarganesh R**, and Divya M, " Solar power system with Modified Boost Converter using MPPT Controller", International Conference at Maria College of Engineering, Kaniyakumari.2010
5. **Sankarganesh R**, and LavanyaS, " PV Based Luo Converter with Hybrid Mutilevel Inverter for Utility System", International Conference on Convergence for trends in technology at AVS College of Technology, Salem. 28th Apr 2017
6. **Sankarganesh R**, and Dhanushya A, " PV Interfaced Two leg Three Phase Split Source Inverter based Series Active Power Filter", International Conference on Convergence for trends in technology, at AVS College of Technology, Salem. 28th Apr 2017
7. **Sankarganesh R**, "An efficient multilevel inverter based on Fuzzy logic controller using shared power switches", International Conference on Advanced Science and Engineering Research at Al-Ameen Engineering College, erode. 05th Apr 2018
8. **Sankarganesh R**, "Easy travel for Human and Material by using Skateboard with Wiper Motor", International

Conference on Innovations in science , Engineering and Technology for sustainable development at Muthayammal Engineering College, rasipuram. 30th & 31st March 2018

9. **Sankarganesh R**, "Develop a Coconut Tree Climbing and Harvesting Machine", International Conference on Recent Trends in Engineering, Science and Technology at SBM College of Engineering and Technology, Dindigul, 2nd March 2019

International Journals (07)

1. **Sankar Ganesh R** & Thangavel, S 2012, 'An Efficient modified cuk converter with fuzzy based maximum power point tracking controller for PV system', International journal of Simulation System, Science and Technology, vol. 13, no. 1, pp. 59-67
2. **Sankar Ganesh R** & Thangavel, S 2014, 'Performance analysis of various DC-DC converter with optimum controller for PV applications', Research Journal of Applied Sciences, Engineering and Technology, vol.8, no.8, pp.929-941
3. **Sankar Ganesh R** & Thangavel, S 2014, 'SVPWM control based bridgeless PFC cuk converter for PMSM under dynamic conditions', WSEAS Transactions on Circuits and Systems, vol.13, no. 36, pp.319-335
4. **Sankar Ganesh R**, 'Design and Simulation of Switched Boost Inverter for AC and DC Loads", International Conference on Engineering, Technology and Science, Muthayammal College of Engineering, Rasipuram on 01 Feb 2014.
5. **Sankar Ganesh R**, "Simulation of Photovoltaic Based Grid Connected Micro Inverter using CUK Converter" International Conference on Engineering, Technology and Science, Muthayammal College of Engineering, Rasipuram on 01 Feb 2014.
6. **Sankar Ganesh R** "Space Vector of Three Phase Three Level Neutral Point Clamped Quasi Z Source Inverter", International Journal for Trends in Engineering and Technology (IJTET) on 02 April 2015
7. **Sankar Ganesh R** & Thangavel, S 2016, 'A PV Module integrated Isolated CUK Converter interfaced grid connected Microinverter", published in Journal of Testing and Evaluation, vol. 44, no. 3, pp. 1-19, May 2016.
8. **Sankar Ganesh R** & Bharani Prakash T, "Harmonic Minimization in Grid Coupled Photovoltaic Structures Using Selective Harmonic Elimination Pulse-Width Modulation in Multiple Level Series Linked Nano-Scale Double Gate Hetero-Structure MOSFET Based H Type Bridge Inverters", Journal of Nanoelectronics and Optoelectronics, Vol. 17, 128-135, 2022. DOI:10.1166/jno.2022.3178
9. **Sankar Ganesh R** & Arun Kumar R, "Interval Type 2 Fuzzy PI-Enhanced State Space Model For Battery Management In Battery Electric Utility Vehicles Operating In An Indoor Logistics

Environment", published in Bulletin of the Polish Academy of sciences Technical Sciences, Vol. 72(4), 2024. DOI: 10.24425/bpasts.2024.150330

10. **R. Sankar Ganesh** & S Farook, Performance Characteristics of a Newly Developed Asymmetric Seven-Level Inverter Utilizing Various Hybrid Pulse Width Modulation Strategies, Journal of Electrical Systems, Vol. 20, Page 386-400. 2024.

11. **R. Sankar Ganesh R** & T Bharani Prakash, Harmonic Elimination Using Grid Integrated Hybrid Renewable Energy System with Optimized Control for Nano Scale Based 31 Level MLI, Journal of Electric Power Components and Systems, Taylor & Francis, 2024, 1532-5016 online https://doi.org/10.1080/15325008.2024.2331003

12. **Sankar Ganesh** R & Arun Kumar R, "Reinforcing smart grid integrity: an enhanced cybersecurity frame work for plug-in hybrid electric vehicles", Published in online, 2024. https://**doi.org/10.1007/s00202-024-02485-7**