




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.B.Karthikeyan			
Date of Birth	05.03.1984			
Unique ID	1-721572406			
Educational Qualifications	B.E., M.E., Ph.D.,			
Designation	Associate Professor			
Email ID	karthikeyanb@ieee.org			
Alternate Email ID	karthikeyangct2009@gmail.com			
Experience	Teaching	Total		
	14	14		
Date of Joining the Institution	20.06.2011			
Area of Specialization	Power Electronics and Drives			
Courses taught	Electrical Machines-I, Electrical Machines-II, Power Quality, Special Electrical Machines, Control system, Circuit Theory & Basic of Electrical and Electronics Engineering.			
Research Focus	Solar Energy, Machine Learning & Electric Vehicle.			
Subject Competency	Power Electronics and Drives			
No. of papers published	National Journals	International Journals	Conferences	
	Nil	6	6	
PG Specialization	Power Electronics and Drives			
Ph.D. Specialization	Solar Energy & Machine Learning-Electrical Engineering			
Projects Carried out	<ul style="list-style-type: none">Received grant of 18.85 Lakhs from Ministry of New and Renewable Energy (MNRE) for 25 kW Solar power plant in the year 2011.Received the amount of Rs 1.2 lakhs form IEEE USA for the Project Contest on “Role of Electronics in achieving Sustainable Development Goal in the year 2023.Received the amount of Rs 40,000 form IEEE Power & Energy Society USA for idea competition “Idea Competition on Sustainable Development Goals” in the year 2023.Received the amount of Rs 40,000 form IEEE USA Two-day			

	<p>workshop on Advancing Web Application Security in the year 2024.</p> <ul style="list-style-type: none"> • Received a grant of Rs 5 lakhs from State Institute of Rural Development under RRGa- Government of Tamil Nadu scheme for Rural Development Projects in the year 2024. • Received a Research grant of Rs 1 lakh from Unnat Bharat Abhiyan (UBA)- Government of India for the Project titled “Women Entrepreneur: Building Capacity in Entrepreneurship Skills for Rural Communities” in the year 2024 • Received a Research grant of Rs 1 lakh from Unnat Bharat Abhiyan (UBA)- Government of India for the Project titled “Grama Panchayat Development Plan for Localizing SDGs in Villages with Adequate Water” in the year 2024.
Patents (Filed & Granted)	Filed-1

Tel: 04566304600
Web: www.sethu.ac.in

Email: sit@sethu.ac.in

Academic Credentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	Electrical & Electronics Engg	Anna University	2009
PG	M.E	Power Electronics & Drives	Anna University	2011
Ph.D.	Ph.D	Electrical Engineering	Anna University	2023

Details of Journal Publication:

- 1.B.Karthikeyan, V.Hema maheshwari, G.Soundradevi, “A 11 level cascaded multilevel inverter using hybrid modulation technique” International Journal of emerging trends in engineering and development, pp.402, Vol 2, 2013. (UGC Care)
2. D.Suresh kumar V.Kannan, B.Karthikeyan, M.Palpandian”Performance Analysis of Rotating Induction Machine”International Journal of Current Research and Development,Vol.5, No.2, pp.96-103.
- 3.B.Karthikeyan. and M.Ramuvel. “Study and observation of the Characterization of Nano materials for Electro-Mechanical Applications”, International Journal of Applied

- 4.K.Kannan, B.Karthikeyan, "Analysis of solar energy Technology in leading Country" International Journal of Power Electronics Drives and System, Vol.10,Issue.3,2019. (Scopus)
- 5.Karthikeyan, B & Karthigaivel, R 2022, 'Maximum Power Point Tracking Based on Self-Adaptive Neural Network Combined with Incremental Conductance', Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, vol. 44, no. 3, pp. 7895-7913. (Scopus)
- 6.Karthikeyan, B, Karthigaivel, R, & Rajasekar V 2024, Performance Analysis of 500kW Solar PV Plant Based on Machine Learning Algorithms, Smart Science.(Scopus)

Details of Conference attended:

- 1.B.Karthikeyan, R. Sankarganesh, "Improvement of the MPPT technique for Solar Panel Using converter." National conference on power electronics and Control (NPEC'10), Thiagarajar College of Engineering, Madurai, Dec 3 2010, Vol III, pp 118-124.
- 2.B.Karthikeyan,R.Sankarganesh "A Fast peak power tracker for photovoltaic system using converter " PEDC'11 March-2011, Alagappa Chettiar College of Engg & Tech,Karaikudi,Mar.9,2011,pp 187-192.
- 3.B. Karthikeyan, "Fast Forward with Solar Mission," Organized by Dayalbagh Education Institute held on 20th January 2014.
- 4.B. Karthikeyan, R.Sankarganesh,P.Ranjithkumar "Improved MPPT Control for PV System under Rapidly Changing Environment Condition" ICRATEMS-2011 at Vivekanandha College of Engineering for Women, Thiruchengode, 4-6 March 2011,pp 26-32.
- 5.B.Karthikeyan, P.Muthu, M.Palpandian, "Improved Incremental conductance technique for solar panel using converter" ICEPEC11, PSG College of Technology, pp.211-217,24- 25 November 2011.
- 6.B.Karthikeyan,"RENERGY 2012" , International conference on Renewable energy organized by Tamil Nadu Energy Development Agency held on March 12th 2012.

Details of Patents Filed

Application Number:202141001814A. Title: Smart Electric Vehicle charging station machine learning data. Published Date:08/04/2022