




AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

Approved by AICTE, Affiliated to Anna University, Chennai
NAAC Accredited Institution
Nizara Educational Campus, Muthapudupet, Avadi IAF
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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NAME & INITIALS	RAJAN M.S	
DESIGNATION	ASSISTANT PROFESSOR & H.O.D.	
EDUCATIONAL QUALIFICATION	B.E., M.E., (Ph.D)	
EXPERIENCE	15 YEARS	
DATE OF JOINING	16/07/2007	
EMAIL ID	ms.rajana@aalimec.ac.in	
AREA OF SPECIALIZATION	Power Electronics & Drives	

EDUCATIONAL QUALIFICATION

DEGREE	BRANCH / SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR
(Ph.D)	Power Electronics and Drives	Sri Venkateswara College of Engineering	Anna University Chennai	Pursuing
M.E	Power Electronics and Drives	Sri Venkateswara College of Engineering	Anna University Chennai	2005
B.E	Electrical and Electronics Engineering	Government College of Technology, Coimbatore	Bharathiar University	1999

PROFESSIONAL MEMBERSHIPS

ISTE Membership No. LM - 134370
IAENG Membership No. 242808

FDP ATTENDED

Attended seven days FDTP on EE2032 (HVDC) at S.S.N College of Engineering from 28/11/12 to 4/12/12 organized by centre for faculty development, Anna University, Chennai

WORKSHOPS ATTENDED

Attended Webinar on “Harmonic Analysis using ETAP” held on 30th Jan 2022 organized by HIEE EMPOWERING ENGINEERS PVT LTD

Participated in Two Days Virtual National Workshop on “Design Challenges in EV Motors and Analysis using FEA tools”, offered by the Department of Electrical and Electronics Engineering, SSN College of Engineering during 28th and 29th January 2022.

Participated in the Celebration of Science Festival (Vigyan Utsav) as a part of Celebration of 75th Year of Independence (Azadi ka Amrit Mahotsav) under the theme of “Innovation and Startups (for Self Reliant India)” conducted on 18th January 2022 organized by Tamil Nadu State Council for Science and Technology, Chennai.

Attended a Live Training Webinar on Data Collection Methods, Instruments, Validity an Reliability which as held on 15th January 2022 organize by Research Graduate

Attended the NAAC Sponsored One-day Online Seminar on “Qualitative & Quantitative Metrics in RAAF of NAAC” conducted on 17-Sep-2021

Attended two days National workshop on Nanomaterials for Solar Energy Conversion organized by S.S.N College of Engineering in association with IEEE Power Electronics Society, Madras Chapter on December 05-06, 2014

Attended two days National workshop on Advanced Power Electronics Interfaces for Distributed Energy from 20/09/13 to 21/09/13 at S.S.N College of Engineering

Attended one day National workshop on control of power converters using Matlab Xilinx Interface on 22/3/13 at S.S.N College of Engineering

PUBLICATION DETAILS

M.S.Rajan “Implementation of Differential Evolution Algorithm for MPPT of PV for Modular Multilevel Cascaded Inverter” Gradiva Review Journal, Volume 7 Issue 11 2021, ISSN NO : 0363-8057

M.S.Rajan “Analysis and Design of Modular Multilevel Cascaded Inverter Based on Level-shifted PWM Technique”, Journal of Emerging Technologies and Innovative Research (JETIR), March 2019, Volume 6, Issue 3, ISSN-2349-5162

M.S.Rajan, R. Seyezhai “Capacitor Voltage Balancing Control for Modular Multilevel Cascaded Inverter Based on Phase Shifted Pulse Width Modulation Technique”, Advances in Natural and Applied Sciences, American-Eurasian Network for Scientific Information Publications (AENSI), Jordan, ISSN No. 1995-0772, pp.205-214, March 2016 (Anna university, Annexure II, S.No 559).

M.S.Rajan, R. Seyezhai “Comparative Study of Multicarrier PWM techniques for a Modular Multilevel Inverter”, International Journal of Engineering and Technology (IJET), Engineering Journals Publications, Vol 5 No 6 , pp.4850-4865, Dec 13 (Anna university, Annexure II, S.No 8187).

CONFERENCE DETAILS

During this semester presented paper titled “Implementation of Differential Evolution Algorithm for MPPT of PV for Modular Multilevel Cascaded Inverter” in International Intellectual Convergence on Advances in Science and Engineering (IIASE’2017) organized by Aalim Muhammed Salegh College of

Engineering, Avadi, Chennai on 03rd and 4th March, 2017

During this semester presented paper titled “Design and Implementation of a Modular Multilevel Cascaded Inverter with phase shifted carrier PWM using FPGA” in International Intellectual Convergence on Advances in Science and Engineering (IIASE’2017) organized by Aalim Muhammed Salegh College of Engineering, Avadi, Chennai on 03rd and 4th March, 2017

Presented paper titled “Capacitor Voltage Balancing Control for Modular Multilevel Cascaded Inverter Based on Phase Shifted Pulse Width Modulation Technique” in 3rd International Conference on Engineering Technology and Science (ICETS’16), Muthayammal Engineering Institutions Rasipuram, Namakkal. on 19th March 2016

Presented paper titled “Capacitor Voltage Balancing Control for Modular Multilevel Cascaded Inverter Based on Carrier Phase Shifted Sinusoidal Pulse Width Modulation Technique” in International conference on Electrical, Electronics & Computer Engineering (ICEECE2015), organized by Vivekanandha College of Engineering for Women, Tiruchengode on 11th March 2015.

Presented paper titled “MATLAB Simulation of Modular Multilevel Inverter Based on Level-shifted PWM Technique” in 6th International conference on Science, Engineering and Technology (SET), organized by SELECT, VIT University, Vellore on May 7th, 2013 and received best paper award

ACHIEVEMENT DETAILS

Received Certificate of Appreciation from PALS for being the Faculty Mentor for of the SMART UNDER WATER ROBOTIC CLEANER project Team which qualified as one the Finalist in the innoWAH! Innovation Competition participated in the finals and exhibition conducted at the IIT MADRAS RESEARCH PARK, CHENNAI on 26th February 2020 and is awarded a Finalist Team Prize of Rs. 5000

Received Certificate of Appreciation from PALS on 16th March 2019 for the Committed Support and Participation in PALS 2019 -2020 as INNOWAH COORDINATOR

Received Best Paper Award for the paper titled “MATLAB Simulation of Modular Multilevel Inverter Based on Level-shifted PWM Technique” in 6th International conference on Science, Engineering and Technology (SET), organized by SELECT, VIT University, Vellore on May 7th, 2013