

AALIM MUHAMMED SALEGH COLLEGE OF ENGINEERING

(NAAC Accredited)

Nizara Educational Campus, Muthapudupet, Avadi IAF, Chennai - 600 055. Ph: 044 - 26842627 / 26842086

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NAME & INITIALS	Dr. A.MOHANASUNDARAM	
DESIGNATION	Assistant Professor	
EDUCATIONAL QUALIFICATION	M.E., PhD.,	
EXPERIENCE	25 YEARS and 6 MONTHS	
DATE OF JOINING	18.12.2003	
EMAIL ID	mohanasundarm.a@aalimec.ac.in	
AREA OF SPECIALISATION	Power System Engineering, Wind Energy Generation, Hybrid Renewable Energy,	



EDUCATIONAL QUALIFICATION

DEGREE	BRANCH / SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR
BE	ELECTRICAL AND ELECTRONICS ENGINEERING	BHARATH ENGINEERING COLLEGE,CHENNAI-72	MADRAS	1996
ME	POWER SYSTEMENGINEERING	COLLEGE OF ENGINEERING,GUINDY CHENNAI-25	ANNA UNIVERSITY	2008
PhD	DESIGN OF VERTICAL AXIS WIND TURBINE AND UTILIZATION OF WIND-SOLAR ENERGY IN DEMAND-SIDE HOME ENVIRONMENT	COLLEGE OF ENGINEERING, GUINDY CHENNAI-25	ANNA UNIVERSITY	2023

SHORT TERM COURSE OBTAINED			
Name of the Course Institution		Duration	
CAD/CAM/CAE&CNC programming	Central Institute of Plastics Engineering &Technology (CIPET), Guindy.	7 th December 1998 - 3 rd March 1999.	

PROFESSIONAL TEACHING EXPERIENCE (25 YEARS AND 6 MONTHS)		
Name of the College	Designation	Duration
Aalim Muhammed Salegh College of Engineering, Avadi-IAF, Chennai -55	Head/ EEE/Assistant Professor	June 2018 to Feb 2020and /only AP till date.
Aalim Muhammed Salegh College of Engineering, Avadi-IAF, Chennai -55	Assistant Professor	Dec 2003 to May 2018.
Jaya Engineering college, Tiruniravur, Chennai 602024.	Lecturer	July 2002 to November 2003
Bharath Engineering College, Chennai-72.	Lecturer	June 1998 to June 2002

GEST TEACHING EXPERIENCE		
Name of the College/University	Degree/ Specialization	Subject taught /Duration
College of Engineering, Anna University, Chennai-25	M.E/ Power System Engineering (Part-Time)	Power System Transients / Second semester (2015-16) & (2016-17)

INTERNATIONAL JOURNAL PUPLISHED			
Name of the Journal	Journal title	Link to the Publications	
Journal of Electrical Engineering, January 2018. (Annexure-1)	Analysis and Design of a Giromill Type Vertical Axis Wind Turbine for a Low Wind Profile Urban Area.	https://www.researchgate.net /profile/Mohanasundaram- Anthony	
Sustainability, October 2020/Current Impact Factor: 2.576/Scopus cite score:3.2 (Annexure-1)	Design of Rotor Blades for Vertical Axis Wind Turbine with Wind Flow Modifier for Low Wind Profile Areas.	https://www.mdpi.com/2071- 1050/12/19/8050.	
MDPI -Electronics (Systems & Control Engineering) July 2021/Current Impact Factor: 2.397/Scopus cite score:2.7 (Annexure-1)	Autonomous Fuzzy Controller Design for the Utilization of Hybrid PV-Wind Energy Resources in Demand Side Management Environment.	https://www.mdpi.co m/20799292/10/14/118.	
Electrical Engineering/Springer Nature, January 2023. Impact Factor: 2.397/Scopus cite score:2.7 (Annexure-1)	Design of a Wind-Solar Hybrid Energy Air Conditioning System Using BLDC Motor for the Residential Buildings	https://www.researchgate.net/ publication/364516684 Desig n of a Wind- Solar Hybrid Energy Air Co nditioning System Using BL DC Motor for the Residenti al Buildings	

INTERNATIONAL AWARDS FOR PUPLICATIONS				
Journal Name	Award Name H-Index Journal Citations			
London Journals Press, United Kingdom (UK)	Quarterly Franklin Membership	3 37		
	ID #BO39884, May 2020			

INTERNATIONAL JOURNAL REVIWER /IEEE	
ORCID ID	Reviewing Journal
https://orcid.org/0000-0001-7334-9543	IEEE Accesses from 2019 till date, & London Journal Press from May 2020

PROFESSIONAL MEMBERSHIP	
INDIAN SOCIETY FOR TECHNICAL EDUCATION (ISTE)	LIFE MEMBERSHIP Membership No.: LM-134372

NPTEL -SWAYAM (IIT) CERTIFICATION COURSE			
Course Code /Name	Course status	Course is given by	
noc21-ee77/ Power System Analysis (12weeks)	One among the 100 completed the course all over India with an <i>FDP certificate</i> (July 2020)	Indian Institute of Technology, Kharagpur.	
noc22-ee06/ Electrical Machines – II (12weeks)	Obtained NPTEL ELITE Certificate (April 2022)	Indian Institute of Technology, Kharagpur.	

STATE LEVEL FUNDED PROJECTS		
Name of the Sponsorship	Title of the project /year of the award	
Tamil Nadu State Council for Science and Technology/ students project scheme 2020-2021	Regulation of MTC Bus with passenger alert system The fund received is ₹ 7500.	

NATIONAL LEVEL ACHIVEMENTS AND AWARDS FOR UG PROJECTS

- 1. An Under Graduate project work guided with titled "Solar-powered Air conditioner using BLDC motor" shortlisted for the finals of "AICTE-ECI Charta Vishwakarma Awards 2017" organized by All India Council for Technical Education (AICTE), Ministry of Human Resource Development, Government of India, Registration Code: VAEE048.
- Mentored a Hardware project model titled Solar-Powered Smart Rail Crack Identification system participated in the national level HACKATHON-2018 hardware edition conducted by Ministry of Human Resource Development, Government of India and won all in India First Runner up prize and same is appreciated by Honorable chief minister of Tamil Nadu.
- 3. Participated as a *supporting Electrical Engineer in the Guinness World Record 2018* achievement completed by Mr. Nawas Akram in Longest Power strip held at Aalim Muhammed Salegh College of Engineering, Chennai-55.
- 4. *Participated in a TV program* named Ariviyal Arivoum regarding the project planning Mr. Naushed Shaheb, telecasted in Doordarshan Podhigai on 16th June 2019.

NOTICABLE CONTRIBUTIONS IN AMSCE/EEE DEPARTMENT

- Designed the Layout and constructed the first POWER SYSTEM SIMULATION lab at EEE/AMSCE in 2005 and the same is upgraded in 2012 for supporting for PG-POWER SYSTEM under my Lab in-charge role.
- Upgraded Electrical Machines Laboratory with INNOVATIVE THREE PHASES LINEAR T-section INDUCTION MOTOR (looking forward to filing a patent) to support High-speed bullet train transportations through students' projects.
- Inaugurated ROBOTICS CLUB in EEE/AMSCE in 2018 to provide training for HSC, Diploma, UG students with a syllabus in the basic manual to autonomous level in Terrain Robotics.
- Renewable Energy Laboratory was designed with a 2kW HAWT prototype Model, 2kW H-type VAWT model and 2kW Involute VAWT model to learn wind energy conversion behaviour through real-time wind speed variations.
- Taken Lead role in Energy auditing of the AMSCE campus and constructed 20kW SOLAR POWER PLANT to support the EEE /AMSCE to support Renewable Energy Laboratory and students projects.
- Being a Project Coordinator from 2005 to 2020, established a project storeroom to help the students to use hardware components from more than 500 IN HOUSE PROJECTS. Personally guided 100+ innovative and award-winning UG PROJECTS.
- Taken in charge of HT 600kVA, 11kV / 440V Transformer substation and Diesel generator maintenance for the AMSCE campus from 2018-2020.
- Nominated as EEE Department Coordinator for the first international conference IIASE in AMSCE in 2017 and presented three journals at the conference.
- State Level Achievement under my leadership as EEE Department HEAD/ As per the Times of India Ranking the Department of Electrical and Electronics Engineering in Aalim Muhammed Salegh College of Engineering, RANKED No 1 in Tamil Nadu for two consecutive academic years in 2018-19 and 2019-2020.

SIGNIFICANT CONTRIBUTION IN THE INSPECTION

- Participated in an NBA and Deemed University linked inspection in BHATAH ENGINEERING COLLEGE in 2003.
- EEE Department FILES coordinator for the NBA inspection in AMSCE in 2011.
- Coordinator in the ANNA UNIVERSITY department inspection for permanent affiliation in 2011.
- HEAD for the CRITERION 6 FILES and presented the EEE achievements during the NAAC Inspection in 2018.

SPECIAL AWARDS RECEIVED DURING RECENT TIMES

- Received "Excellence in Education 2022 award" from Tamil Nadu Teacher's Association & Bala Educational trust on 10.09.22 by Justice Jeyachandran, Member, HRD.
- Received cash prize, certificate of appreciation and a shield for producing 100 % Results in a subject named EE 8019 SMART GRID in Anna University theory examination NOV/DEC 2022.

GUEST LECTURES PROVIDED

• Provided a guest lecture on the topic of, Wind Power Generation Analysis Using QBlade software at GRT Engineering College for the EEE students on 26.08.2022.

WEBINAR PROVIDED

- Conducted a webinar on the topic of, Design of vertical axis wind turbine
 Using QBlade software at Aalim Muhammed Salegh Engineering College for
 the Faculty members/ Research scholars/ PG &UG Engineering students on
 27.04.2022.
- Conducted a Webinar on the Research topic of, Comparative Analysis of vertical and horizontal axis wind turbine Using QBlade software at Aalim Muhammed Salegh Engineering College for the Faculty members/ Research scholars/ PG &UG Engineering students on 11.02.2023 with 163 participants (92% External participation).

Dr. A. MOHANASUNDARAM