

APPLICATION FOR FACULTY POSITION

C . N A V E E N

Male, Indian, 36
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CAREER OBJECTIVE:

To develop a productive teaching based career related to development of teaching Pedagogy & resources needed to empower students with practical & application oriented learning which will enhance the opportunities to make them to align with their career passions

TEACHING/RESEARCH INTERESTS

- Electrical Engineering
- Renewable Energy
- Waste to Energy
- Energy & Environment management

EDUCATION

Degree/ Examination	Year of Passing	School/Institute	Board/University	Percentage /Grade
Ph.D (Energy Eng)	2017	National Institute of Technology, Tiruchirappalli.	National Institute of Technology, Tiruchirappalli.	8.5CGPA
M.Tech (Energy Eng)	2010	National Institute of Technology, Tiruchirappalli.	National Institute of Technology, Tiruchirappalli	8.12 CGPA
B.E(Electrical and Electronics)	2008	Adhiparasakthi Engineering College, Melmaruvattur.	Anna university	70.0%
Class XII	2004	Vellayan Chettiyar Higher Secondary school, Chennai.	Tamil Nadu State Board	72.6%
Class X	2002	Vellayan Chettiyar Higher Secondary School, Chennai.	Tamil Nadu State Board	81.8%

WORK EXPERIENCE

Organization	Period of work experience	Post
National Institute of Technology, Tiruchirappalli	17.08.2016-30.06.2017	Temporary Faculty in Energy and Environment Department
National Institute of Technology, Tiruchirappalli	05.07.2017-30.05.2018	Temporary Faculty in Energy and Environment Department
SRM Institute of science and technology	04.06.2018-Till now	Assistant Professor, Electrical and Electronic Department

PHD RESEARCH TOPIC:

Solid waste management of distillery waste through thermal degradation technique

PROJECT WORK

PG PROJECT

Phase 1 Title: A Comparative Study of Solar Concentration Systems for Indian Condition

Phase2 Title: Design of Parabolic Trough Power Plant Using Water as a Working Fluid

UG PROJECT

Title: Speed Control of Ac Drives Using Radio Frequency Signal.

Company: Ashok Leyland, Chennai.

PUBLICATIONS

"Pyrolysis of post-methanated distillery effluent (PMDE) solid waste: Thermogravimetric degradation, kinetic and thermodynamic study with a circular bioeconomy approach" C Naveen, PK Ghodke, AK Sharma, WH Chen, Environmental Technology & Innovation 2023,31, 103202.

"Co-pyrolysis of lignocellulosic biomass with other carbonaceous materials: A review on advance technologies, synergistic effect, and future prospectus" WH Chen, C Naveen, PK Ghodke, AK Sharma, P Bobde, 2023, Fuel, 345, 128177.

"Combined strategy for tuning sensor-less brushless DC motor using SEPIC converter to reduce torque ripple" A Prakash, C Naveen, ISA transactions, 2023,133, 328-344.

"Systematic review on impact of different irradiance forecasting techniques for solar energy prediction" K Sudharshan, C Naveen, P Vishnuram, DVS Krishna Rao Kasagani, Energies 15 (17), 2022,6267.

"An optimization technique for battery energy storage with wind turbine generator integration in unbalanced radial distribution network" P Rajesh, C Naveen, AK Venkatesan and FH Shajin Journal of Energy Storage, 2021, 43, 103160.

"Energy Transfer from Solar to Vehicle and Vehicle to Home using Bidirectional DC-DC Converter" MAN Doss, C Naveen, K Mohanraj, 2020, IOP Conference Series: Earth and Environmental Science 573 (1),2020, 012022

"Performance analysis of 2 in 1 parabolic trough collector for both hot water and hot air production for domestic household applications" T Prem Kumara, C Naveen and M. Premalatha, Applied Solar Energy, 2020, Vol. 55, No. 6, pp. 397-403.

"Effect of orientation on the yield of low cost solar stills with coco peat and charcoal as an absorber material" Mande Amol Balu, K D V Siva Krishna Rao, C Naveen and M Premalatha, Desalination and Water Treatment,2018.

"Analysis of different combinations of meteorological parameters in predicting the horizontal global solar radiation with ANN approach: A case study" K D V Siva Krishna Rao, M Premalatha, and C Naveen, Renewable & Sustainable Energy Reviews,2018.

"Models for forecasting monthly mean daily global solar radiation from in-situ measurements: Application in Tropical Climate, India" K D V Siva Krishna Rao, M Premalatha, and C Naveen, Urban Climate, 2017.

"Method and strategy for predicting daily global solar radiation using one and two input variables for Indian stations" K D V Siva Krishna Rao, M Premalatha, and C Naveen, Journal of Renewable and Sustainable Energy, 2017.

"Impact of blend ratio on the co-firing of post-methanated distillery effluent solid waste and low-rank Indian coal via analysis of oxidation kinetics through TGA" C. Naveen, M. Premalatha, RSC Advance., 2016,6, 26121-26129.

"CDM Potential through Phycoremediation of Industrial Effluents" K. Sankaran, C. Naveen, K.K. Vasumathi, M. Premalatha, M. Vijayasekaran, and V.T. Somasundaram, Book chapter in "Marine Bioenergy: Trends and Developments" May 20, 2015 by CRC Press, ISBN 9781482222371.

"Thermo gravimetric and kinetic studies on dried solid waste of post methanated distillery effluent under oxygen and nitrogen atmosphere "C. Naveen, M. Premalatha, Bioresource Technology 174 (2014) 126–133, sci indexed journal .

ACADEMIC ACHIEVEMENTS & CO-CURRICULAR ACTIVITIES

- Handled one of the session in the topic of "Energy Efficiency in HVAC- site visit" at one day workshop on Energy Conservation in Electrical Distribution Systems on 24th June 2022 at SRMIST.
- Participated & completed successfully AICTE Training and Learning (ATAL) Academy Five days FDP on "Recent advancements in sustainable energy storage and conversion" from 25th to 29th october 2021 at Manipal Institute of Technology.
- Organised two days online STTP in "Emerging Trends in the Commercial Energy Sector" on 19.08.2021 – 20.08.2021 conducted by SRMIST.
- Participated & completed successfully AICTE Training and Learning (ATAL) Academy Five days FDP on "Electric Vehicle" from 18th to 22nd January 2021 College of engineering, Cherlatha.
- Delivered a webinar on the topic of "New and Emerging Technologies in Renewable Energy Sector" on 22nd may 2020 to St.Mother Theresa Engineering College, thoothukudi.
- Attended three days international online FDP program on "Enhancing the quality of academic and sponsored research" on 4th to 6th June 2020 conducted by K.L.N College of engineering –Sivagangai.
- Attended the two days conference on " Making Chennai Water Positive" on 8th & 9th November 2019 on the 8th Anniversary of the Sustainable Chennai Forum organised by MCCI- Nominated by SRMIST
- Worked as a part of organising technical team for a two days event "Exhibition cum Industry Academia Meet on "Waste Management and Social Entrepreneurship" conducted jointly by SRMIST & Mahatma Gandhi National Council of rural education, on 4th and 5th December 2019.
- Participated & completed successfully AICTE Training and Learning (ATAL) Academy Five days FDP on Artificial Intelligence from 4th to 8th December 2019 at IIITDM Kancheepuram.
- Participated & completed successfully AICTE Training and Learning (ATAL) Academy Five days FDP on Artificial Intelligence from 26th to 29th September 2019 at IIITDM Kancheepuram.

- Attended the two days' workshop on "Advance Solar PV technologies and vendors Meet" organized by Andhra chamber of commerce and Care renewable at IIT madras on 26-27th June 2018.
- Participated and given oral presentation in international conference on membrane technology and its applications (MEMSEP-2017), NIT-Trichy on 21-23 February 2017.
- Participated in the training program on "Instructional design and delivery systems" conducted by national institute of technical teachers training & research at NIT-trichy, 19-21 January 2017
- Participated in the one week training program on "Energy management and energy audit" conducted by the department of energy & Environment, NIT-Trichy, 1-5 August 2016.
- Participated and organised one week short term course on "Waste Management" from 8-14 may 2016 in the department of energy & Environment, NIT-Trichy.
- Participated in the one week training program on " Hands on practical training in energy efficiency " conducted by National productivity council at CETEE center during 11-15 may 2015.
- Participated in ENERGEIA a two day technical fest & workshop on "Solar PV power plant design organized by CEESAT, NIT-Trichy on 25-26 March 2014.
- Participated in the short term course & International workshop on " Design of Sub-Systems for Concentrated Solar Power Technologies "organized by ICASET, IIT-Jodhpur, 16-22 December 2013.
- Participated and organised one day workshop on 'Energy conservation in process Industries' by TEQIP, NIT-Trichy on 30 December 2013.
- Participated and organised a two day workshop on 'Thermal and elemental analysis of solid samples' sponsored by Perkin Elmer in NIT-Trichy on 29-30 August 2013.
- Organised and participated in a one day workshop on 'Energy conservation in process Industries' by TEQIP, NIT-Trichy.
- Organised and participated in a one day workshop on 'Necessity of calibration for Industries 'sponsored by FLUKE in NIT-Trichy on 18 July 2013.
- One of the organizer of 'ENERGY DAY' 2009, 2011, 2013 celebrated in CEESAT, NIT, Trichy.
- Got qualified in GATE Examination with 89 percentile% in 2008.
- Conducted a GATE examination preparation program for B.E students in the Angels Engineering College, Thirupur.
- Attended Two day familiarization program on Thermal power plant conducted by NPTI.

INSTRUMENTS HANDLED

- Electrical calibrator –Fluke 5522A
- Power Quality Analyzer-Fluke 435 series-II
- Pyranometer - Kipp and zonen
- Solar Power analyser
- Thermal Imaging camera –FLUKE Ti32
- Thermo Gravimetric Analyzer –Perkin Elmer/ TGA 4000

- Differential Scanning Calorimeter- PerkinElmer/DSC6000
- Total Organic Carbon Analyzer - Analytikjena/multi N/C 3100
- Bomb Calorimeter - IKA/C5000
- PAR sensor –Hydrolab DS-5,
- Flue gas analyzer-MRU-Nova plus
- High volume samplers
- Flash point analyzer-Anton Paar

INPLANT TRAINING

- Two week Inplant training in Ashok Leyland, Chennai.
- One week Inplant training in Prakash industries limited (Prakash Wind Mill), Nagercoil.

EXTRA CURRICULAR ACTIVITIES

- Won gold medal in power lifting 75kg category at the Intra-NIT-T sports meet 2012.
- Won bronze medal in body building 75kg category at the Intra-NIT-T sports meet 2012.

PERSONAL DETAILS

- Father's Name : Chinna Kannu
- Date of Birth : 30th April 1987
- Linguistic Proficiency : English and Tamil.
- Religion & Nadar : Hindu-Nadar

ACHIEVEMENTS

During COVID lockdown assisted my department Co-faculties and students to make a smooth transition towards online mode of education. I made many videos on online interaction of student's related to electrical engineering field and received nice feedback from students.

REFERENCE

Dr.M.Premalatha Professor & HOD Department of Energy and Environment National Institute of Technology-Trichy Ph.NO:+91 9894600407 E.mail:latha@nitt.edu	Dr.Arun Noyal Doss Associate Professor Dept of Electrical and Electronics Engineering SRMIST Ph.NO:+91 9444296280 E.mail: arunoyad@srmist.edu.in
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