

FACULTY PROFILE

BENO WINCY. W

Personal Details

Salutation: Dr.
Instructor Name: **Beno Wincy. W**
Designation: **Assistant Professor**
Department: MECHANICAL ENGINEERING -
NEC
**Date of Joining in
NEC:** 24-08-2020
**Date of Joining in
Present Post:** 24-08-2020
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Address for Communication

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Address Line 2: Ramanputhur **District:** Kanyakumari
City: Nagercoil **State:** Tamil Nadu

Educational Qualifications

Sr	Name of the Degree	Specialization	Name of the Institute	Name of the University	Year of Passing
1	B.E	Mechanical Engineering	St. Xavier's Catholic College of Engineering, Nagercoil	Anna University	2014
2	M.E	Energy Engineering	St. Xavier's Catholic College of Engineering, Nagercoil	Anna University	2016
3	Ph.D	Biomass Gasification, Drying	University College of Engineering, Nagercoil	Anna University	2021

Faculty Professional Experience

Sr	Name of Institute / Organizations	Designation	Date of Joining	To	Total Experience
1	National Engineering College, Kovilpatti	Assistant Professor	24-08-2020	02-05-2022	1 yr 8 mo

FDP/ Workshop/ Seminar/ Training/ Knowhow Program Attended

Sr	Name of the Event	Event Type	Name of the Institution or Organization	From	To
1	SOLIDWORKS capabilities on 3D CAD, CAM, CAE	National Workshop	AIC-PEC Foundation and Directorate of Higher & Technical Education, Government of Puducherry	24-06-2021	26-06-2021
2	Familiarization, Handling and Training on Sophisticated Analytical and Energy Audit Instruments for Engineers	National Workshop	Department of Energy and Environment, NIT Tiruchirappalli	18-10-2021	24-10-2021
3	Energy Engineering	Faculty Development Program	AICTE Training and Learning (ATAL) Academy at Mizoram University	23-08-2021	27-08-2021
4	Emerging Trends in Mechanical Engineering	Faculty Development Program	Department of Mechanical Engineering, Er. Perumal Manimekalai College of Engineering, Hosur	28-05-2021	31-05-2021
5	Biomass to fuels, Chemicals and valueadded products for sustainable energy and environmental future	Faculty Development Program	AICTE Training and Learning (ATAL) Academy at National Institute of Technology Tiruchirappalli	20-12-2021	24-12-2021
6	Emerging Trends in IC Engines/Thermal Systems	Faculty Development Program	Sri Sai Ram Institute of Technology, Chennai	01-02-2021	05-02-2021
7	Multi-Scale Computational Fluid Dynamics: Fundamentals and Applications	Short Term Training Program	Dr. B. R. Ambedkar National Institute of Technology Jalandhar, Punjab, India.	21-09-2020	25-09-2020
8	COMPUTATIONAL FLUID DYNAMICS - AN APPROACH FOR RESEARCH	National Workshop	Thangal Kunju Musaliar College of Engineering	21-09-2020	22-09-2020
9	Advanced Energy Conversion and Storage Systems	GIAN Course	National Institute of Technology Warangal	07-02-2022	18-02-2022

International and National Conferences Attended

Sr	Name of the Conference	Event Type	Name of the Institution or Organization	Title of the Paper	Authors
1	6th National Conference on Refrigeration and Air Conditioning (NCRAC 2020)	National Conference Presentation	K.L.N. College of Engineering, Madurai, organized by IITM.	Performance Analysis of a Novel Syngas Operated Dryer for Fish Drying	W. Beno Wincy, M. Edwin

FDP/ Workshop/ Seminar/ Conference Programs Organized

Sr	Name of the Event	Event Type	Nature of funding	Amount received from funding Agency	Role	Venue	From
1	Shipping Industry and Career in Merchant Navy	National Seminar	Self Supporting	₹ 0.00	Co-Ordinator	Online	07-04-2021

Faculty Research Publications

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
1	Techno-Economic Assessment on the Implementation of Biomass Gasifier in Conventional Parboiling Rice Mills	International Journal of Energy Research	2019	W. Beno Wincy, M. Edwin	https://doi.org/10.1002/er.4991
2	Energy and Exergy Evaluation of Rice Processing Mills Working with Biomass Gasifier in Parboiling Process	Fuel	2020	W. Beno Wincy, M. Edwin, S. Joseph Sekhar	https://doi.org/10.1016/j.fuel.2019.116255
3	Exergetic Evaluation of a Biomass Gasifier Operated Reversible Flatbed Dryer for Paddy Drying in a Parboiling Process	Biomass Conversion and Biorefinery	2021	W. Beno Wincy, M. Edwin, S. Joseph Sekhar	https://doi.org/10.1007/s13399-021-01322-2
4	Techno-economic feasibility study on the application of downdraft gasifier in small-scale red clay bricks industries.	Applied Nanoscience	2021	P.C. Murugan, P. Navaneethakrishnan, P. Saji Raveendran, M. Edwin, W. Beno Wincy, S. Joseph Sekhar	https://doi.org/10.1007/s13204-021-01942-0
5	Response Surface Methodology to predict the performance and emission characteristics of gas-diesel engine working on producer gases of non-uniform calorific values	Energy	2021	G. Arun prasad, P.C. Murugan, W. Beno Wincy, S. Joseph Sekhar	https://doi.org/10.1016/j.energy.2021.121225

Sr	Title of the Paper	Name of the Journal	Year of Publication	Authors	DOI (Digital Object Identifier System)
6	Numerical and Experimental Study on the Effect of Nozzle Position and Inlet Air Temperature in an Industrial-Type Biomass Gasifier	Biomass Conversion and Biorefinery	2021	P.C. Murugan, P. Saji Raveendran, S. Nithyanandan, Godwin Glivin, W. Beno Wincy, S. Joseph Sekhar	https://doi.org/10.1007/s13399-021-01693-6
7	Exergy based performance analysis of rice husk fuelled producer gas operated boiler for thermal application in parboiling mills	Fuel	2022	W. Beno Wincy, M. Edwin, U. Arunachalam, S. Joseph Sekhar	https://doi.org/10.1016/j.fuel.2021.123018
8	Experimental energy, exergy, and exergoeconomic (3E) analysis of biomass gasifier operated paddy dryer in parboiling industry	Biomass Conversion and Biorefinery	2022	W. Beno Wincy, M. Edwin	https://doi.org/10.1007/s13399-021-02156-8
9	Optimization of process parameters to implement biomass gasifier for drying high moisture paddy in reversible flatbed dryer.	Energy	2022	W. Beno Wincy, M. Edwin, S. Joseph Sekhar	https://doi.org/10.1016/j.energy.2022.123771

Product Development Activities

Sr	Product Title	From	To	Funding Agency	Funds Received
1	Cylindrical Smoke House Rubber Sheet Dryer	13-10-2021	21-07-2022	NewGen IEDC	₹ 2,50,000.00