

FACULTY PROFILE



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9. Qualifications : B.E (Mechanical)
M.Tech (Energy Conservation & Mgmt)
10. Area of Specialization (One paragraph about the Specialization)
- Detailed and Specific Energy Audits
 - Bio Energy Conversion Technologies
 - Techno Economic Feasibility Analysis
 - Power Plant Cycle analysis
 - Detailed Project Report Preparation

11. Research Projects

Sn	Funding Agency	Total Amount (Rs in Lakhs)	Name of the Project	Period (years)	Status (Completed/ In Progress)
1	Ministry of New and Renewable Energy (Govt of India), New Delhi,	3.58	Technology Validation of Biomass Gasifiers for Manual Dyeing Units in Karur	1	Completed
2		3.0	Decentralised Power Generation through Carbonisation & Gasification of Cashew Shell	2	Completed

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3	Tamilnadu Energy Development Agency (Govt of TN), Chennai	10.0	Development of Thermal Storage based solar cooking System	On going
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12. Teaching Experience : 7.5 years

13. Research Guidance : Nil

14. Publications (Journals)

1. Project appraisal methodology envisaged for the benefit of prospective promoters, TEDA - NEWS LINE, Quarterly journal on Renewable Technologies, Oct 2001, pp 19-24
2. Gasification Facets of Cashew Nut Shell Char Vis-à-Vis Casuarina Wood—An Experimental Analysis, Journal of Biobased Materials and Bioenergy Vol. 2, 33–42 (2008)
3. Biomass gasifiers for meeting industrial energy needs – a note of caution, Energy Efficient Manager, Volume 1, Jan 2008, pp 32 – 36.
4. Mathematical modeling & experimental analysis of cashew nut shell char gasification using free energy minimization, International Energy Journal, Vol. 9, Issue 1, March 2008
5. Comparison on stoichiometric and non stoichiometric modeling of gasification of cashew nut shell char – an experimental analysis, Energy and Fuels Journal (Accepted for publication and available online)
6. Performance prediction and validation of equilibrium modeling for gasification of cashew nut shell char, Brazilian Journal of Chemical Engineering (Accepted for publication and available online)
7. Applicability of stoichiometric equilibrium model for gasification of cashew nut shell char – An Experimental Analysis, International Journal of Energy Sources – Part A : Recovery, Utilisation and Environmental Effects (Accepted for publication)

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15. Conferences

1. Study on Co-Gasification as an effective alternative for Tar reduction, Proceedings on National Conference on Application of Emerging Technologies, March 2008, ISTE Chapter, Adhiyamaan College of Engineering, Hosur, pp16
2. A review on tar sampling systems in vogue for quantification of tar from Gasification systems, Proceedings of National Conference on Challenges in 2020 – Mechanical Engineering Perspective, March 2008, AVC College of Engineering, Mayiladuthurai, pp 119 - 126
3. Analysis on Combustion, Emission and Performance Characteristics of Dual Fuelling of Used Frying Oils with Jatropha Esters in CI engines, Proceedings of National Conference on Modern Trends in Automobile Engineering, March 2008, Sri Venkateswara College of Engineering, Sriperumbudur, pp 03.
4. Detailed energy study of the coal fired thermal power plant: An analysis, Proceedings of National conference on emerging trends in Mechanical Engineering, June 2007, Sardar Vallabhai National Institute of Technology, Surat, pp10
5. Performance evaluation of coal fired thermal Power plant: a case study, Proceedings of National conference on Emerging trends in Engineering and Technology, Indian society for Technical Education & SAINTGITS, Kottayam, May 2007, pp ME144 – ME149
6. Effect of properties of Bio Residues on their Gasification, Proceedings of the International conference on Advances in Mechanical Engineering, SRM University, Chennai, Dec 2006, pp 350-353
7. Design and Fabrication of Battery based tricycle (Electric Vehicle) for physically challenged person by using power electronic device, Proceedings of National conference on recent trends in Power systems and drives, SSN College of Engineering, Chennai, April 2006, pp 66
8. Harmonic analysis and suppression using wavelet transform, Proceedings of National conference on recent trends in power systems and drives, SSN College of Engineering, Chennai, April 2006, pp 32
9. An application of wavelet transform in Harmonic analysis and Suppression, Proceedings of National conference on Micro Electronics and Communication, SRM Institute of Science and Technology, Chennai, March 2006, pp 61-65
10. An Innovative option for Energy Optimization in HVAC Systems installed in Hot and dry regions, National Seminar on Energy conservation and Environmental management for sustainable development of process industries, Guru Ghasidas University, Bilaspur, Feb 2006, pp 8 – 9
11. Analysis and suppression of Harmonics using the Matlab wavelet transform toolbox, National conference on Technology development in power sector, Adhiyaman Engg college, Hosur, Feb 2006, pp 48

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12. Role of renewable energy as future industrial fuel, Conference on Development cum Environment friendly future industrial fuels, Kumaraguru college of technology, Coimbatore, May 2005, pp 28-29
13. Options for effective disposal of municipal solid wastes – A case study, National Workshop on incineration and Solid waste management for clean environment, IIT Madras, April 2005, pp163-175
14. A transient design analysis of Piping system for longevity enhancement by accommodating pressure surges, National conference on Globally competitive eco friendly technologies in Mechanical and Mechatronics engineering, Kongu Engineering, Erode, April 2005, pp 56-64
15. Bio medical waste management – A technical Analysis, Proceedings of UGC Sponsored National Seminar on waste – Disposal, Management and utilization, Annamalai University, March 2005, pp 30-34
16. Replacement of conventional fuels with bio mass gasifier for cooking application, Proceedings of National Conference on Emerging trends in Energy and Environment, Sri Sai Ram Engg college, Chennai, Feb-2005, pp 62-67
17. Theoretical studies and modeling analysis of cashew shell gasifier for Eco friendly power generation, Proceedings of National Conference on Emerging trends in Energy and Environment, Sri Sai Ram Engg college, Chennai, Feb-2005, pp 68-74
18. Solar Energy – An overview and its application to rural Areas, National symposium on Empowering rural population for economic development through transfer of technology, Technical teachers training and research, Chennai, Jan 2005, pp 61-86
19. Methodology to be adopted for assessment of Municipal solid wastes, AICTE-ISTE Sponsored short term training programme on Hazardous Waste Management and Water Pollution Control, Kongu Engineering College, Erode, Nov2004, pp100-108
20. Power project appraisal methodology for prospective promoters, Industrial Herald, March 2002, pp17-19