

Name of Teaching Staff:

Dr. Ajitkumar Sudhakar Gudekar



Designation:

Assistant Professor

Department:

Chemical Engineering

Date of Joining the Institution:

20/7/2015

Qualifications with Class / Grade:

1. Ph. D. (Tech.) in Chemical Engineering, from ICT Mumbai (2009)
2. Master of Chemical Engineering from ICT, Mumbai (2002)
3. B. E. (Chemical Engg) from DJSCoE, Mumbai (2000).

Total Experience in Years:

Teaching: 2 years 1 month

1. Assistant Professor in Chemical Engg., D. J. Sanghvi College of Engg., from 20-7-2015 till date.

Industry: 3 years 7 months

1. 'Waaree Energies Pvt. Ltd.', Mumbai as Sr. Manager- Solar Applications (Sep. 2012 to Nov. 2013)
2. 'Gadhia Solar Energy Systems P. Ltd. (Flareum Solar Technologies)', Valsad as Manager- R&D (Feb. 2012 to Sep. 2012).
3. 'Laxmi Organic Industries Limited', (MIDC Mahad, Maharashtra), as Project Engineer (July 2002 – March 2004).

Research: 4 years 1 month

1. 'Land Research Institute' as Post-Doctoral Research Associate: posted at 'Institute of Chemical Technology', Mumbai (Jan 2014 to July 2015)
2. 'Institute of Chemical Technology', Matunga, Mumbai as 'Post-Doctoral Research Associate' (July 2009 to Feb. 2012)

Papers Published:

National/ International:

1. A. S. Gudekar, A. S. Jadhav, S. V. Panse, J. B. Joshi and A.B. Pandit. 'Cost Effective Design of Compound Parabolic Collector for Steam Generation'. *Solar Energy*, Vol. 90 (2013)pp 43– 50.
2. A. S. Jadhav, A. S. Gudekar, R. G. Patil, D. M. Kale, S. V. Panse and J. B. Joshi, 'Performance analysis of Novel and Cost Effective Compound Parabolic Collector'. *Energy Conversion and Management*, Vol. 66. (2013) pp56-65.
3. S. V. Panse, A. S. Jadhav, A. S. Gudekar and J B Joshi, 'Inclined Solar Chimney for Power Production'. *Energy Conversion and Management*, Vol. 52 (2011) pp. 3096-3102.
4. A. A. Ganguli, A. S. Gudekar, A. B. Pandit and J. B. Joshi, 'A Procedure to Improve the Energy Efficiency of a Cooking Device via Thermal Insulation'. *The Canadian Journal of Chemical Engineering*, Vol. 90 (2012) pp. 1212–1223.
5. J. B. Joshi, A. B. Pandit, S. B. Patel, R. S. Singhal, G. K. Bhide, K. V. Mariwala, B. A. Devidayal, S. P. Danao, A. S. Gudekar, and Y. H. Shinde, 'Development of Efficient Designs of Cooking Systems - I :Experimental'. *Ind. Eng. Chem. Res.*, 2012, 51 (4), pp 1878–1896.
6. J. B. Joshi, A. B. Pandit, S. B. Patel, R. S. Singhal, G. K. Bhide, K. V. Mariwala, B. A. Devidayal, S. P. Danao, A. A. Ganguli, A. S.

Gudekar, P. V. Chavan, and Y. H. Shinde, 'Development of Efficient Designs of Cooking Systems - II : Computational Fluid Dynamics and Optimisation'. *Ind. Eng. Chem. Res.*, 2012, 51 (4), pp 1897–1922.

7. R. S. Singhal, A. B. Pandit, J. B. Joshi, S. B. Patel, S. P. Danao, Y. H. Shinde, A. S. Gudekar, N. P. Bineesh, and K. M. Tarade, 'Development of Efficient Designs of Cooking Systems–III: Kinetics of Cooking and Quality of Cooked Food Including Nutrients, Antinutrients, Taste and Flavour. *Ind. Eng. Chem. Res.*, 2012, 51 (4), pp 1923–1937.

8. Y. H. Shinde, A. S. Gudekar, P. V. Chavan, A. B. Pandit and J. B. Joshi, 'Design and development of energy efficient continuous cooking system'. *J. of Food Engineering*, 2016, 168, pp 231–239.

Papers Presented in Conferences:

National/ International:

1. A. S. Gudekar, S. S. Waje, B. N. Thorat and A. Mehta: 'Engineering Aspects of Manufacturing Tri n-Butyl Phosphate Ester', at 'ISCRE-18' (International Symposium in Chemical Reaction Engineering), Chicago, US, June 2004.
2. A. S. Gudekar, A. S. Jadhav, S. V. Panse and J. B. Joshi: 'Compound Parabolic Solar Collector for Process Heat', at 'International Conference on Solar Process Heat (World Sustainable Energy Days 2011)', Wels, Austria, March, 2011.

PhD Guide ? Give field & University:

Field:

University:

PhDs / Projects Guided

PhDs:

Projects at Masters level:

Books Published / IPRs / Patents:

1.

2.

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Professional Memberships:

BEE (Bureau of Energy Efficiency) certified Energy Auditor (EA-13239)

Consultancy Activities:

Awards:

1. Received JRF (Junior Research Fellowship) and SRF (Senior Research Fellowship) from DAE under DAE/KBE scheme during PhD at ICT Mumabi.
2. First prize for CPC based Solar steam generation system at KAIF-2009 (Knowledge and Innovation Fair), National level competition organized by TATA Power, Mumbai

Grants fetched:

Interaction with Professional Institutions: