

Name of Faculty Dr. M KALYANI  
 Designation Assistant Professor  
 Nature of Job/Appointment Regular  
 Date of Joining 03 - 08 - 2006  
 E-mail mkalyani\_chem@cbit.ac.in



Education Qualifications	Name of the Degree	Class
Ph. D	Doctor of Philosophy (Chemical Engineering)	Awarded
PG	M. S. (Chemical Engineering) - USA	Distinction
UG	B. Tech. (Chemical Engineering)	Distinction

Work Experience  
 Teaching 16 Years  
 Research 07 years  
 Industry --  
 Others --

Area of Specialization Process Modeling and Optimization, Process Control

Professional Memberships Life Member - IChE, Number: 50016

- Responsibilities held at Institution Level
1. Member, ARIIA, from 2018-19 to 2019-20.
  2. Council member, IIC, 2019-20.
  3. Member, NIRF, from 2016-17 to 2019-20.
  4. Member, Academic Council, from 2013 to 2018.
  5. Member, IQAC, from 2010-11 to 2019-20.
- Responsibilities held at Department Level
1. Department Coordinator, NAAC, from 2015 - 2017.
  2. Dept. Coordinator, ISO, from 2012 - 2015.
  3. Member, Course Expert Group

Research Guidance --

Awards Received --

Courses Handled at Under Graduate / Post Graduate Level. Transport Phenomena, Process Dynamics & Control, Mechanical Unit Operations, Chemical Engineering Thermodynamics-I&II, Chemical and Biochemical Engineering Thermodynamics, Technology of Vegetable Oils & Fats, Membrane Separation Processes, Pollution Control in Process Industries, and Energy Engineering

No. of Papers Published National Journals - 01 International Journals - 05  
 National Conference - 01 International Conference - 02

Projects Carried out MODROBDS of PDC Laboratory to a tune of Rs. 8.8 Lakhs (2011-12)

Patents --

Technology Transfer --

Invited Speaker --

No. of Books/Chapter Published with details --

Details of Short-Term Training Programs/Faculty Development Programs /Seminars/Workshops/ Other Trainings (Attended and/or Organized)

1. Successfully Completed "Introduction to Psychology" - an online non-credit course authorized by Yale Univ. and offered through COURSERA on 23-06-2020.
2. A One-day online Workshop on "Social Responsibility and Community Engagement", SMS-CBIT, on 17-06-2020.
3. A Five-Day online Workshop on "Patent Searching, Drafting and Filing", Turnip Innovations, during 29-05-2020 to 02-06-2020.
4. A One-Week online FDP on "Outcome Based Education and NBA Accreditation Process - (UG)", CBIT (in-house) during 28-05-2020 to 02-06-2020.
5. Successfully Completed "Natural Attenuation of Groundwater Contaminants: New Paradigms, Technologies, and Applications" - an online non-credit course authorized by Rice Univ. and offered through COURSERA on 28-04-2020.
6. A One Day online Workshop on "Effective and Efficient Online Teaching in the Age of Corona: A Hands-On Workshop", ICT-IITB on 16-05-2020.
7. Successfully completed a 12-week SWAYAM-NPTEL certification Course on "Process Control - Design Analysis and Assessment", during 27-01-2020 to 22-04-2020.
8. A One-week FDP on "IoT for Emerging Applications" organized by Electronics & ICT Academy with Dept. of ECE, CBIT during 04-02-2020 to 08-02-2020.
9. A One-week AICTE - QIP STC on "Modeling and Computational Techniques for Multiphase Systems", IIT Kharagpur, during 30-04-2018 to 06-05-2018.

#### **International /National Journals since 2017**

1. Bala Krishna Inguva and M Kalyani (2020) "Experimental Study on Interpretation of Nanofluid Convective Heat Transfer", Journal of Critical Reviews, Volume 7, Issue 16 pp. 18-22.
2. M Kalyani and Bala Krishna Inguva (2020) "Analysis of Heat Transfer Characteristics of Nanofluids for Cooling Application", Mukta Shabd Journal, Volume 9, Issue 6 pp. 5386-5391.
3. M Kalyani, Bhadri Srinivas, V Ramesh Kumar and S V Satyanarayana (2019) "Oxidative Coupling of Methane in Membrane Reactor: Reactor Simulation Studies and Multi Objective Optimization", International Journal of Recent Technology and Engineering, Volume 8 Issue 1 pp. 1981-1988.
4. M Kalyani and Bala Krishna Inguva (2019), "Kinetic studies on oxidative coupling of methane to ethylene over catalysts supported by mixed-oxides" International Journal of Advanced Technology and Engineering Exploration, Volume 6 Issue 53 pp. 92-100.
5. M Kalyani, Gopal R Nemmani, V Ramesh Kumar and Suggala V Satyanarayana (2017) "Simulation of a Catalytic Membrane Reactor for Oxidative Coupling of Methane-A Comparative Study for Isothermal and Non-isothermal Conditions", International Journal of Engineering Technology Science and Research, Volume 4, Issue 11 pp. 974-984.

#### **International /National Conferences since 2017**

1. M Kalyani, V Ramesh Kumar and S V Satyanarayana (2018) "Oxidative coupling of methane in a membrane reactor - Modeling and simulation for a Pervoskite Membrane", DAE-BRNS Sponsored Eighth Biennial Symposium on "Emerging Trends in Separation Science & Technology" (SESTEC-2018), pp. 101.