

INDUSTRIAL CATALYTIC TECHNOLOGY

Overview

Catalysts are sine aqa non of petroleum, petrochemical, chemical and environmental processes. The products manufactured using catalysts constitute about 80-90% of the total products produced. It is also recognized that the GDP growth of the country and catalyst consumption runs parallel to each other, emphasizing the importance of catalysis in accruing societal benefits.

Catalysis is an interdisciplinary science. Principles of chemical engineering chemistry, material science, and nano materials, surface science, are adroitly applied for further enhancement of knowledge in this area. Clear understanding is critically needed in assessing the role played by preparation, characterization, deactivation and poisoning of the catalysts in a process. The knowledge of structure activity correlations and their role in understanding the functions of the catalyst and catalytic process development for efficient and green novel catalytic processes is needed. This knowledge is critical for economic growth and sustainable living. The course is designed to target towards achieving these goals by inter disciplinary approach culling the knowledge in diverse disciplines and developing a theme in understanding the journey of the catalyst from cradle to grave.

Modules	1) Industrial Catalysis (July 11 – 15, 2016) a) Heterogeneous Catalysis b) Nanocatalysis c) Catalysis In Petrochemical Production And Alternative Fuels d) Catalyst Production Via Green Approach e) Catalysis In Inorganic Chemical And Fine Chemical Synthesis Including Drug Synthesis Number of participants for the course will be limited to fifty.
You Should Attend If...	<ul style="list-style-type: none">• Petroleum Refining And Petrochemical Technologists• Chemistry And Chemical Engineering Scientists• Material Scientists• Students And Faculty of Any Discipline of Academic Institutions• Technical Personnel In Chemical Industry And Research Laboratories
Fees	The participation fee for joining the course would be: Students/Research Scholars Rs. 1000/- Faculty/Staff of Academic Institutions: Rs. 2,000/- Industry/Research Personnel: Rs. 2,500/- Participants from abroad: US\$ 100/- The above fee includes the instructional materials, internet facility and snacks. The accommodation will be provided on payment basis subject to availability otherwise participants may arrange their own accommodation.

The Faculty



Professor Sreekantha Jonnalagadda (jonnalagaddas@ukzn.ac.za) is a Senior Professor of Chemistry in School of Chemistry, University of KwaZulu-Natal, Durban. He has obtained PhD (1973) from Vikram University, Ujjain and accumulated vast experience in Chemistry while working as Research Associate (Deutsche Forschungsgemeinschaft), at University of Bonn, Germany and in other various countries such as: Kenya, Zimbabwe and South Africa.



Murali Dhar Gudimella, (dhargm@gmail.com) has pursued B.Sc. from Andhra University in 1970, M.Sc from Benaras Hindu University Varanasi in 1973, and Ph.D. from Indian Institute of Technology, Madras in 1979. He has also PostDoctoral Experience as a Research Associate, from Indian Institute of Technology, Madras and Fuels Engineering University of Utah, USA. He has also served as Scientist G, Director Grade scientist, Head, Catalytic Conversion Processes Division, Indian Institute of Petroleum, Dehradun and presently working as a Senior Professor of Chemical Engineering, in Gayatri Vidya Parisad College of Engineering.



Mithilesh Kumar Jha (jhamk@nitj.ac.in) is a Professor in, Department of Chemical Engineering, Dr B R Ambedkar NIT Jalandhar. His research interests are in the areas of Development of catalyst for Petroleum and Biofuel, Biological Treatment of waste water, Biodiesel production by Enzymatic Transesterification etc. He is life Fellow of Indian Institute of Chemical Engineers (IChE).



Sangeeta Garg (gargs@nitj.ac.in) is an Associate Professor in Department of Chemical Engineering, Dr B R Ambedkar NIT Jalandhar. Her research interests are in the areas of Development of Biodegradable Plastics, Environmental Engineering, Biofuels and wastewater treatment.



Poonam Gera (chadhap@nitj.ac.in) is an Associate Professor in Department of Chemical Engineering, Dr B R Ambedkar NIT Jalandhar. Her research interests are in the areas of New and Renewable Energy, Biofuels and Heterogeneous Catalysis.

Course Co-ordinators

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