Chemical Engineering Department

PhD Completed between 2011-2017

SN	N Supervisor Year Student Name		Student Name	Thesis Title	Co-Supervisor	
1	A S Chaurasia	2016-17	Ruta Dhanram Khonde	Biomass Gasification: Experimental And Computational Studies on Two-Stage Fixed Bed Downdraft Gasifier to Optimize Tar Cracking and Syngas Production	•	
2	D Z Shende	2016-17	Kalpana Rajesh Yeole	Study on Reactive Separations		
3	K L Wasewar	2011-12	Diwakar Shende	Study on reactive Extraction of carboxylic Acids		
4	K L Wasewar	2013-14	Suchita B Rai	Study on Neutralization Techniques of Red Mud and It's Utilization		
5	K L Wasewar	2013-14	Kalpana Singh	Study on Adsorptive Treatment of Fluoride from Aqueous Solution by Using Low Cost Adsorbents	D H Lataye	
6	K L Wasewar	2013-14	Ajit P Rathod	Study on Pervaporation Reactor		
7	K L Wasewar	2014-15	Swapnil A Dharaskar	Synthesis Characterization and Application of Ionic Liquids for Desulfurization of Liquid Fuels		
8	K L Wasewar	2014-15	Mangesh D Waghamare	Study on Separation of Carboxylic Acids	S S Sonawane	
9	K L Wasewar	2015-16	Abdul Waheed A Deshmukh	Study of Drying of Food Materials	M N Verma	
10	K L Wasewar	2015-16	Kanti Kumar Athankar	Reactive Separation of Carboxylic Acids	M N Verma	
11	K L Wasewar	2016-17	Sapana Sonmath Madan	Controlled Synthesis and Application of CaO2 Nanoparticles as an Adsorbent for Batch and Continuous Removal of α-Toluic Acid from Aqueous Solution		

12	M N Verma	2015-16	Antaram N Sarve	Improvement in Biodiesel Synthesis from Edible & Non-Edible Oils	S S Sonawane
13	S A Mandavgane	2015-16	Sunil K Deokar	Studies on the Removal of Selected Pesticides from Aqueous Solution using Aooripriate Agro based Materials	
14	S A Mandavgane	2015-16	Pranav D Pathak	Fruit Peel Waste:- A Useful Bioresource	
15	S A Mandavgane	2016-17	Sonali Prakash Tajane	Development and Characterization of Micro Neem Biopesticide	
16	S S Sonawane	2013-14	Rohit S Khedkar	Studies on Synthesis of Nanofluids and its Application in Chemical Engineering	K L Wasewar
17	S S Sonawane	2015-16	Abhijit A Gadhe	Studion Biofuel Production from Waste Resources	M N Verma
18	S S Sonawane	2016-17	Ghanshyam Barman	Study on Polyamide 6 Nanocomposites	K L Wasewar

PhD Ongoing

Sr No	Student Name	Supervisor
1	SARITA JAGDISH CHARDE	S Sonawane
2	SHYAM PRAKASHRAO TEKADE	D Z Shende
3	KHUDSANGE CHANDRAKANT RAMKRUSHNA	K L Wasewar
4	POOJA SUNIL JAISWAL	Mahesh Varma
5	VISHAL SURESH CHANDANE	Wasewar + Rathod
6	PRAVIN RAVINDRA SONARKAR	A S Chaurasia
7	ANJU INGLE	Shende +Wasewar
8	MANISHA GUNDERAO KAMBLE	Sachin Mandavgane
9	NISHANT KUMAR	S S Sonawane
10	ATULKUMAR NATTHUJI RAUT	Pradeep Dhamole
11	HRUSHIKESH MADHUSUDAN GADE	P P Wanjari
12	ROHIT ASHOK LADE	K L Wasewar
13	VIJAY JUWAR	A P Rathod
14	SAURABH JOGLEKAR	Sachin Mandavgane
15	PREETY S GEDAM	Pradeep Dhamole
16	ASHISH GYANIRAM YEWALE	Methekar +Agrawal
17	ASHUTOSH KR CHAUDHARY	R P Vijaykumar
18	PAWAR NITIN RAMESH	Agrawal + Methekar
19	PRASHIL KHEMRAJ NARNAWARE	C Ravikumar
20	KUNJAN CHANGDEO JUNGHARE	S M Kodape
21	SHIVANAND SAHEBRAO CHAVAN	A P Gaikwad
22	ANWANI SANDEEP SURESHKUMAR	R N Methekar

Sponsored R & D Projects Completed

Sr	Project Name	Co-ordinator	Dept.	Sponsoring	Project Value	Sanction	Duration
No				Agency		date	(years)
1.	Experimental and Modeling Studies on the	Ashwin Gaikwad	Chemical	DST SERB	25,33,850	23/09/16	3 years
	Ionic Liquid-Mediated Catalytic Conversion						
	of Lignocellulosic Biomass to Fuel Products						
2.	Model based optimal design and fabrication	R N Methekar	Chemical	DST SERB	33,64,060	01/10/16	3 years
	of lithium-ion coin cells using spent battery						
3.	Investigation of selective CO ₂ capture by	Piyush P Wanjari	Chemical	DST SERB	33,81,840		3 years
	graphene-carbon nanotube hybrid						
	nanostructures using molecular dynamics						
	simulations						

Sponsored R & D Projects Ongoing

Sr No.	F Y	Name of Faculty (Principal Investigator)	Name of the Funding agency	Title of the Project	Sanctioned Order no. & Date	Total Amt of Project (In Lakhs Rs.)	Amt received in 2016-17(in words)
1	2016-17	Dr. Piyush P. Wanjari	SERB	Investigation of selective CO ₂ capture by graphene-carbon nanotube hybrid nanostructures using molecular dynamics simulations	ECR/2016/00126 7 2/28/2017	23.65	Twenty three lakhs and sixty five thousand
2	2016-17	Dr. Diwakar Z. Shende,	Vipra Ferro Alloys Ltd., Nagpur	Exploring the various applications of fly ash conduction of testing of ash and other raw materials and industry based technology development	CHE/JRP/04/138 3 3/18/2014	2.2	Two Lakh Twenty Thousand Only
3	2016-17	Dr. Kailas L. Wasewar	HEMRL, DRDO Pune	Rheological Study of Hydroxyl Terminated Polybutadiene (Htpb) – Aluminium Nanoparticle (ANP) – Ammonium Perchlorate (AP) Composite Suspension	HEMRL/CARS/ SRP/14-15 1/20/2015	10	Ten lakh
4	2016-19	Dr. Diwakar Z. Shende	SERB DST	Developing Functionalized Properties on Hollow Ceramic Microsphere for Specific Applications	EER/2016/00083 5 12/8/2016	46.98	Thirty Five Lakh Sixty Six Thousand Only
5	2016-17	Dr.C.Ravikumar	DST-SERB Extra Mural Research (Govt. of India)	'Nanoparticles of different shapes conjugated with drugs to achieve enhanced therapeutic efficacy in treatment of cancer	EMR/2016/0033 20 07-03-2017	27.66	Thirteen lakhs forty one thousand rupees only
6	2016-17	Dr. Ravi Methekar	DST -SERB	Model based optimal design and Fabrication of coin cells using spent lithium ion battery	ECR/201/000422 9/29/2016	33.64	Twenry one lakhs and thirty six thousand
7	2016-17	Dr Sachin Mandavgane	Department of Atomic Energy- Board of Research in	Development and testing of micro fine powder bio-pesticide using Neem	No 2012/35/38/BRN S 2/27/2012	22.5	Twenty two lakhs and Five thousand
8	2016-17	Dr Sachin Mandavgane	SERB	Removal of chlorinated herbicides from dilute aqueous solution using biomass ashes	SB/S3/CE/077/2 013 12/21/2013	47	Fourty Seven lakh

9	2016-17	Dr. Ashwin Gaikwad	SERB-DST	Experimental and Modeling Studies on the Ionic Liquid-mediated Catalytic Conversion of Lignocellulosic Biomass to Fuel Products	ECR/2016/00007 8 9/23/2016	25.33	Twenty Five Lakhs Thirty Three Thousand
10	2016-17	Dr Pradip Dhamole	DST	Extractive fermentation with surfactants to enhance butanol production	24/12/2013 24/09/2017	29.17	Twenty nine lakhs and seventeen thousand
11	2016-17	Dr. R. P. Vijayakumar	SERB	Production of liquid hydrocarbons and carbon nanotubes using waste plastics as precursor	SB/FTP/ETA- 0235/2013 17/7/2014	27	Twenty Seven lakh
12	2016	Dr.S.S. Sonawane	SERB/DHPH	Development of High Performance Heat Transfer Nanofluids Using Carbon Nanotubes (SWCNT & MWCNT'S) Nanoparticles and Its Applications in Double Pipe Heat Exchanger	NA	5	Five lakhs only

Research Publications as under SCOPUS

Dr. A P Rathod

Dr. A S Chaurasia

Dr. Ashwin Kannan

Dr. C Ravikumar

Dr. D Z Shende

Dr. K L Wasewar

Dr. M N Varma

Dr. P B Dhamole

Dr. S A Mandavgane

Dr. S S Sonawane

Dr. Ms. Sonali Tajane