



Department of Chemical Engineering

Profile

Prof. (Dr) P N Dange

PhD (Chemical Engineering)

Associate Professor

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Research Areas / Areas of Interest

Heterogeneous Catalysis, Process Modeling Simulation, Environment Engineering

Personal Details

Date of Birth : 20 / 07 / 1975

Domicile : Maharashtra

Gender : Male

Blood Group: A+ve

Contact Details: Department of Chemical Engineering, AISSMS COE , Kennedy Road,
Pune-411001

Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Chemical Engineering	ICT Mumbai	--	2017
2	M.Tech.	Chemical Engineering	IIT Kharagpur	I st (CGPA: 9.11/10)	2008
3	B.Tech	Chemical	LIT Nagpur	I st (65.60 %)	1998

		Engineering			
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Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	17	10
2	Research (IGCAR Kalpakkam)	02	00
3	Industry: 1. Ordnance Factory Bhandara 2. Suparna Chemicals Pvt Ltd Mumbai	1 --	05 04
4.	Others	--	--
Total		21	07

Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Fluid Mechanics	UG	SE Chemical	04
2	Chemical Engineering Thermodynamics-I	UG	SE Chemical	02
3	Chemical Engineering Thermodynamics-II	UG	TE Chemical	03
4	Process Modeling and Simulation	UG	BE Chemical	02
5	Nanotechnology (Elective)	UG	BE Chemical	01
6	Advanced Separation Processes	UG	BE Chemical	01
7.	Heat Transfer	UG	SE Chemical	01
8	Computer Aided Chemical	UG	BE Chemical	04

	Engg.			
9	Computational Fluid Dynamics	PG	ME Chemical	04
10	Advanced Process Control	PG	ME Chemical	02
11	Advanced Reaction Engineering	PG	ME Chemical	01
12	Computer Aided Design	PG	ME Chemical	02
13	Advanced Mathematical Methods in Chemical Engineering	PG	ME Chemical	01

Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
Journals	04	04	--	06	02
Conferences	10	03	--	--	--

Publication Details (Journals)

S. No	Document Details	Authors	Year	Source Details	ISBN/ISSN	Publisher
1.	Studies on fluidised photo reactors,	P N Dange, Dhirendra	2000	159-161.		Chemical Weekly
2.	Bio-sorption of Chromium (Cr VI) from Aqueous Solutions using Coconut Husk	Prachee Karde, Vivekanand Rathod and P N Dange	2011	491-496.		IJAET, Vol. II (IV)
3.	Synthesis of Methyl Butyrate Using	P. N. Dange, A. Sharma, V. K. Rathod,	2014			

	Heterogeneous Catalyst: Kinetic Studies, Catalysis Letters, , 144 (9) (2014) 1537-1546					
4	Ultrasound assisted synthesis of methyl butyrate using heterogeneous catalyst	P. N. Dange, A.V. Kulkarni, V.K. Rathod,	2015	26, 257- 264		Ultrasonics Sonochemistry
5	Equilibrium and thermodynamic parameters for heterogeneous esterification of butyric acid with methanol under microwave irradiation	P. N. Dange, V. K. Rathod	2017	3, 64-70		Resource-Efficient Technologies
6	Kinetic and Mass Transfer Studies of Heterogeneous Synthesis of Ethyl Butyrate,	P. N. Dange, V. K. Rathod	2019	55-65	2572- 9896	Catalysis in GCatalysis Catalysis in Green Chemistry and Engineeringhemistry and Engineeringreen Chemistry and

	Communicated.					Engineering
7						
8						

Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1.	CFD studies for Absorber Plate of Solar Air Heater, International Conference on Climate Change	C.V. Shende, P. N. Dange,	2019.	International Conference on Energy and Environment January 4-5		VIT Pune
2.	Synthesis of Silver Nanoparticles for Electronics Applications, International Conference on Nanotechnology	A. Dixit, R. Hawaldar, P. Dange, R. Raut,	2018	BVDU NANOCON 2018		Bharati Vidhyapeeth
3.	Radioactive waste disposal : Indian scenario, frontier technologies in waste management	A. Kulkarni, P. Pawar, P. N. Dange	2014	National Conference on frontier technologies in waste management, January 15-17, 2014		AISSMS COE Pune
4	Design aspects of photochemical reactor	P. N. Dange, A. Jagtap,	2014	National Conference on frontier technologies in		AISSMS COE Pune

				waste management, January 15-17, 2014		
5	Process Intensification of methyl butyrate synthesis'	P. N Dange, A Ekbote	2015	Sus ChemE - 2015 Conference , (Oct 8-9, 2015)		ICT Mumbai
6	Kinetic Modeling of synthesis of butyric acid and methanol: Use of Non-conventional Technologies	P. N Dange, A Ekbote	2016	Chemference, , Dec 03, 2016		IIT Gandhinagar
7	Synthesis of silver nano-particles and its characterization	A Dixit, P. N. Dange	2017	33 rd national convention of Chemical Engineers on Nanotechnology and its applications for sustainable development in Chemical Industries September 09-10, 2017.		IEI Regional Centre, Pune

PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	08	52

Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
IChE	National	Life Member	51007
SESI	National	Life Member	
AIChE	International	Annual	1004032319
Member ISTE (134137)	National	Life Member	134137
International Association of Engineers (IAENG)	International	Life Member	227353

Patents / IPR Filed / Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1	1. Dr P N Dange 2. Prof Dr Gargi Das 3. Dr P K Das	An online device for in-situ measurement of low gas flow rates: Filed	2008	Filed	(Ref: 990/KOL/2013)

Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number

Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount
1.	Research Proposal: Effect of Amino acids on metal complexes on nonlinear optical single crystals (Co-investigator)	2014-16	BCUD, SPPU, Pune	INR 2.1 Lacs

Details of Workshop / STTP / FDP / Seminar / Conferences Organized

S. No	Title	Type	Duration	Level (State/National/International)	Sponsoring Agency
01	Co-ordinated and Organised Department Advisory Meeting-2016	Advisory Meeting	Sept. 24, 2016.	Regional	AISSMS COE Pune
02	A seminar on 'Study Abroad Opportunities and Scholarship' for UG/PG students and faculty on. Dr Hiroshi Yokohama, (Director & Ohio Research Scholar, Liquid Crystal Institute (LCI), and Acting Director & Professor of Chemical Physics Interdisciplinary Program, Kent State University (KSU), Ohio, and USA) was invited for the talks	Seminar	October 07, 2015	Regional	AISSMS COE Pune

03	Advisory Meeting (DAC)-2015.	Advosry Meeting	Oct. 01, 2015.	Regional	AISSMS COE Pune
04	Advisory Meeting (DAC)-2016.	Advosry Meeting	Sept. 24, 2016.	Regional	AISSMS COE Pune
05	Organized and co-ordinated Faculty Development Program on 'Pedagogy Practices' on	FDP	January 16-17, 2018	National	AISSMS COE Pune
06	Organized and co-ordinated Faculty Development Program on 'Waste Management and Energy Conservation'	FDP	July 14, 2018	Regional	AISSMS COE, Pune
07	ISTE & IE (I) sponsored one Week Orientation Program on 'Modern Pedagogy and Recent Technological Development' held at AISSMS COE, Pune during	Orientation Program	Dec. 10-14, 2018	National	AISSMS COE Pune, IEI and ISTE

Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level(National/Int/State/Regional)	Date
1	AISSMS COE Pune	Invited to speak in one day workshop on 'CFD governing equations and solution	Regional	March 22, 2013.

		techniques'		
2	MAE Alandi Pune	Invited as judge for Paper Presentation Event organized in 'Prakalpa-2014' at MAE Alandi on 5 th and	National	6 th September, 2014 .
3	AISSMS COE Pune	Invited to speak on 'Nuclear Waste Management' in the national seminar on 'FRONTIER TECHNOLOGIES IN WASTE MANAGEMENT	National	January 15-17, 2014.
4	MAE Alandi Pune	Judging the event for '12 th National Chemical Engineering Students Conference "PRAKALP-2016'	National	Aug. 27, 2016.
5	Department of Chemical Engineering, AISSMS COE, Pune	'Process Simulation by UNISIM	Regional	September 07-08, 2016.
6	AISSMS College of Engineering.	Invited as speaker for the national level Seminar 'Advances in Chemical Reactor Design' 'Thermodynamics and kinetics aspects in heterogeneous reactors'.	National	February 27-28, 2017
7	Vishwakarma Institute of Technology, Pune	Invited as judge in the Project competition for BE Chemical Students	Regional	on May 02, 2017
8	DYPIEMR Akurdi Pune-411044	Was invited as a Judge for the Technical Event organized by	National	January 12, 2016

		Department of Chemical Engineering,		
9	Institute of Chemical Technology Mumbai on	Was invited as expert for judging the technical event in 'PAPYRUS 2016'	National	October 23, 2016.
10	MAE Alandi, Pune on	Invited for judging the technical competition in 'Prakalp'	National	September 8-9, 2017.
11	Department of Chemical Engineering, AISSMS COE, Pune	Resource person for workshop on 'Process Simulation by UNISIM'	Regional	September 07, and 11, 2017.
12	Institute of Chemical Technology Mumbai	Was invited as expert for judging the technical event in 'PAPYRUS 2017'	National	October 14, 2017.
13	Department of Plastic and Polymer Technology Maharashtra Institute of Technology, Aurangabad	Was invited as Guest speaker on 'Role of Mass Transfer in industrial prospects'	Regional	June 12, 2021
14	Department of Chemical Engineering, SCOE Pune	Was invited as Guest speaker on 'Recent Trends in Green Technology and Materials'	National	December 22, 2021

Details of Workshop / STTP / FDP / Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
1	High Impact Teaching Skills a workshop organized by Mission-10X	Workshop	October 21-25, 2008.	Modern College of Engineering, Pune	Wipro Technology
2	Innovation 2008 - a Research	Conference	Novemb	SCOE, Pune	University of

	Teacher Conference		er 17 – 18, 2008.		Pune
3	Indo-German workshop on 'Micro-Reaction Technology'	Workshop	March 4- 5, 2009.	National Chemical Laboratory (NCL), Pune	National Chemical Laboratory (NCL), Pune
4	Workshop on 'Advanced Concepts in Chemical Engineering'	Workshop	February 20–22, 2009.	Institute of Chemical Technology, Mumbai	Institute of Chemical Technology, Mumbai
5	Workshop cum Training Course on 'Chemical Engineering Laboratory' organized by ICT Mumbai under UGC Networking Resource Centre from	Workshop	May 29- 31, 2009.	ICT Mumbai	UGC
6	Attended workshop on 'Process Intensification of Chemical Processing Applications' organized by ICT Mumbai, under UGC Networking Resource Centre	Workshop	January 28-30, 2011.	ICT Mumbai	UGC
7	Workshop on 'Alternative Sustainable Processes' organized by ICT Mumbai under UGC Networking Resource Centre during	Workshop	March 14-18, 2012.	ICT Mumbai	UGC
8	Complimentary seminar on 'MATLAB and Simulink for Engineering Education' organized by Mathworks India Private Limited at Mumbai	Seminar	Septemb er 07, 2012.	Mathworks India Private Limited at Mumbai	Mathworks India Private Limited at Mumbai
9	Attended Training Program on 'Environmental Management & Waste Water Treatment' at RCF, Chembur, Mumbai	Training	Septemb er 25-26, 2012.	RCF, Chembur, Mumbai	RCF, Chembur, Mumbai
10	Participated in workshop on 'Process Intensification' held at	Workshop	Jan.9-10, 2015.	AISSMS COE Pune	AISSMS COE Pune
11	National level seminar on' Sustainable Technologies for Specialty and Fine Chemicals'	Seminar	March 18-19, 2016.	AISSMS COE Pune	AISSMS COE Pune
12	One day workshop on 'Virtual Labs'	Workshop	August 04,	AISSMS COE Pune	AISSMS COE Pune

		2017.		
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Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
1	Head of the Department of Chemical Engineering from July, 2010 to June, 2014 at Department of Chemical Engineering, AISSMS COE, Pune
2	Head of the Department of Chemical Engineering from June 2019 to July, 2022 at Department of Chemical Engineering, AISSMS COE, Pune
3	Subject Chairman in the following subject : <ul style="list-style-type: none"> a. Advanced Reaction Engineering (ME Chemical, 2012 Course) b. Computational Fluid Dynamics (ME Chemical, 2008 Course) c. Petroleum Refining (BE Chemical, 2012 Course) d. Computer Aided Process Control (BE Chemical, 2008 Course)
4	Served as Sr Supervisor for SPPU university examination (PG) (April/May 2016)
5	Worked as a Co-ordinator for SE Online Examination (Phase I and Phase II) at Institute (Term-II, AY 2015-16)
6	Served as Sr Supervisor for SPPU University Examination (UG) (Nov. /Dec. 2016)
7	Served as Sr Supervisor for SPPU University Examination (UG) (Nov. /Dec. 2016)
8	Co-ordinator for Continuing Education and Staff Development from September 2017 onwards
9	Member, Board of Studies (BOS), SPPU, Pune
10	Head of the Department of Chemical Engineering from June, 2019 onwards at Department of Chemical Engineering, AISSMS COE, Pune
11	NBA Co-ordinator of the Department of Chemical Engineering, AISSMS COE Pune from July 18, 2022.
12	PhD Guide, Research Centre, Department of Chemical Engineering, AISSMS COE Pune from June 01, 2022.

Awards Received

S. No.	Awards
1.	UGC Scholarship from July 2006 to May 2008 at IIT Kharagpur.

Declaration: I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

Dr P N Dange

(Name with Signature)