

**All India Shivaji Memorable Society's  
COLLEGE OF ENGINEERING, Pune**

**RESUME**



**Name of the Teaching Staff :** Dr. Parmanand Namdeoji Dange

**Designation :** Associate Professor and Head

**Department :** Chemical Engineering

**Areas of Interest :** Heterogeneous Catalysis, Process Simulation, CFD and  
Advanced Mathematics (Analytical and Numerical)

**Contact details :**

**Phone No. :** 8097399142

**e-Mail. :** [pndange@aissmscoe.com](mailto:pndange@aissmscoe.com), [p.n.dange@gmail.com](mailto:p.n.dange@gmail.com)

**Educational Qualifications:**

Sr. No.	Exam	School/College	Board/Unive rsity	Percentage/ Grade	Year of Passing	Remark
1.	PhD	ICT Mumbai	ICT Mumbai	--	2017	--
2.	M. Tech.	IIT Kharagpur	IIT Kharagpur	9.11 (CGPA on 10 point scale)	2008	Distinction
3.	B.Tech.	LIT Nagpur	Nagpur Uni.	65.60	1998	First Class
4.	HSC	Science College Nagpur	Nagpur Div. Board	85.67 %	1993	Distinction
5.	SSC	Lok Vidhyalaya Neri	Nagpur Div. Board	87.71 %	1991	Distinction

**Experience (Years & Months):**

<b>Sr No</b>	<b>Organization</b>	<b>Post Held</b>	<b>From</b>	<b>To</b>
1.	AISSMS College of Engineering, Pune	Associate Professor in Chemical Engineering	1/6/2018	Till Date
2.	AISSMS College of Engineering, Pune	Assistant Professor in Chemical Engineering	10/10/2008 31/05/2018	Till Date
3.	Indira Gandhi Centre for Atomic Research, Kalpakkam (TN)	Scientific Officer 'C' (Spent Fuel Reprocessing)	05/01/2004	19/08/2005
4.	Ordnance Factory Board (O F Bhandara)	Jr Works Manager (Head of Acid Manufacturing section)	09/09/2002	28/12/2003
5.	PRCE, Loni	Lecturer in Chemical Engineering	10/10/1998	30/08/2002

**Subjects taught:**

<b>Sr. No.</b>	<b>Subject Taught</b>	<b>UG/PG</b>	<b>Class</b>
1.	Chemical Engineering Thermodynamics-I	UG	SE
2.	Fluid Mechanics	UG	SE
3.	Heat Transfer	UG	SE
4.	Chemical Engineering Thermodynamics-II	UG	TE
5.	Process Modeling and Simulation	UG	BE
6.	Mass Transfer-II	UG	BE
7.	Advanced Separation Processes	UG	BE
8.	Nanotechnology	UG	BE
9.	Advanced Process Control	PG	ME-II
10.	Computational Fluid Dynamics	PG	ME-II
11.	Computer Aided Design	PG	ME-I
12.	Advanced Reaction Engineering	PG	ME-I

13.	Advanced Mathematical Methods in Chemical Engineering	PG	ME-I
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**13. Responsibilities handled at Institute/university (On various bodies/chairman etc.)**

Sr. No.	Administrative work	Year/Duration	From	To
1.	Member, Board of Studies, Chemical Engineering, SPPU, Pune		Oct 2018	Till Date
1.	Department Co-ordinator for Projects	01	June, 2017	10/06/2019
2.	Department Co-ordinator for Virtual Laboratory	01	Feb., 2018	10/06/2019
3.	Institute Co-ordinator, Continuing Education and Faculty Development		Feb., 2017	10/06/2019
4.	NBA Co-ordinator for the Department	03 Yrs	June, 2014	July 2017
5.	HOD, Department of Chemical Engineering	04 Yrs	July, 2010	June 2014

**Publications:**

**(A) Paper Published in Journals**

**(i) National:**

1. P N Dange, Dharendra, Studies on fluidised photo reactors, Chemical Weekly (Aug. 2000) 159-161.
2. Prachee Karde, Vivekanand Rathod and P N Dange, Bio-sorption of Chromium (Cr VI) from Aqueous Solutions using Coconut Husk, IJAET, Vol. II (IV) (2011) 491-496.

**(ii) International:**

1. P. N. Dange, A. Sharma, V. K. Rathod, Synthesis of Methyl Butyrate Using Heterogeneous Catalyst: Kinetic Studies, *Catalysis Letters*, , 144 (9) (2014) 1537-1546
2. P. N. Dange, A.V. Kulkarni, V.K. Rathod, Ultrasound assisted synthesis of methyl butyrate using heterogeneous catalyst, *Ultrasonics Sonochemistry*, 26 (2015 ) 257-264
3. P. N. Dange, V. K. Rathod, Equilibrium and thermodynamic parameters for heterogeneous esterification of butyric acid with methanol under microwave irradiation, *Resource-Efficient Technologies*, 3 (2017) 64-70
4. P. N. Dange, V. K. Rathod, Kinetic and Mass Transfer Studies of Heterogeneous Synthesis of Ethyl Butyrate, *Catalysis in Green Chemistry and Engineering*.
5. P. N. Dange, V. K. Rathod, Microwave Assisted Heterogeneous Esterification of Butyric Acid with Ethanol, communicated.

***(B) Paper Published in Conferences:***

**National:**

1. A Dixit, P. N. Dange, Synthesis of silver nano-particles and its characterization, 33<sup>rd</sup> national convention of Chemical Engineers on Nanotechnology and its applications for sustainable development in Chemical Industries, September 09-10, 2017.
2. A. Ekbote, P N Dange, Kinetic Modeling of synthesis of butyric acid and methanol: Use of Non-conventional Technologies, Chemference, IIT Gandhinagar, Dec 03, 2016
3. P. N Dange, A Ekbote , Process Intensification of methyl butyrate synthesis', in Sus ChemE -2015 Conference (Oct 8-9, 2015)
4. P. N. Dange, A. Jagtap, Design aspects of photochemical reactor, frontier technologies in waste management, National conference proceedings, AISSMS COE Pune, January 15-17, 2014.
5. A. Kulkarni, P. Pawar, P. N. Dange, Radioactive waste disposal : Indian scenario, frontier technologies in waste management, National conference proceedings, AISSMS COE Pune, January 15-17, 2014.

**International:**

1. Accepted paper titled ‘Synthesis of Silver Nano-particles for Electronic Applications’ in Bharati Vidhyapeeth Pune, Nanocon-2018, October 25-26, 2018
2. Accepted paper titled ‘CFD studies in solar heat absorber’, in International Conference, VIT January 4-5, 2019.

**PhDs /ME/BE students Guided:**

Sr. No.	Program	Students Guided
1	BE	48
2	ME	07
3	PhD	--

**IPR/Copyright/Patents published:**

- An online device for in-situ measurement of low gas flow rates: Filed (Ref: 990/KOL/2013)  
([http://www.ttg-sric.iitkgp.ernet.in/sric\\_final/sric\\_new/patents.php](http://www.ttg-sric.iitkgp.ernet.in/sric_final/sric_new/patents.php))

**Professional Memberships (with grade):**

**Life member of IChE (LM-51007)**

**Consultancy/R&D/ Funded work:**

Sr. No.	Title	Period	Principal Inv./co-investigator	Amount	Funding Agency	Status (Completed /Ongoing)
1	Effect of Amino acids on metal complexes on nonlinear optical single crystals	2014-16	Co-investigator	2.1 Lacs	SPPU	Completed

***Award /Recognition:***

**GATE-2005 Qualified:** Percentile score 88.01

Award of UGC Scholarship for PG Program at IIT Kharagpur. from July 2006 to May 2008

Felicitated by AISSM Society on 26 June, 2019 for being awarded PhD degree in Chemical Engineering from ICT, Matunga Mumbai

***Interaction with other University/Professional Institutions/Industry:***

<b>Sr. No.</b>	<b>University/Institution/Industry</b>	<b>Interaction</b>	<b>Duration</b>
1	ICT, Mumbai	Internship of UG students	05 Years
2	CMET, Pune	BE Projects	05 Years

***Workshop/STTP/Seminar /FDP/attended***

1. High Impact Teaching Skills, a workshop organized by Wipro Technology's Mission-10X at Modern College of Engineering, Pune during October 21-25, 2008.
2. Innovation 2008 - a Research Teacher Conference, University of Pune, November 17 – 18, 2008.
3. Indo-German workshop on 'Micro-Reaction Technology' organized by National Chemical Laboratory (NCL), Pune on March 4-5, 2009.
4. Workshop on 'Advanced Concepts in Chemical Engineering', organized by Institute of Chemical Technology, Mumbai during February 20–22, 2009.
5. Workshop cum Training Course on 'Chemical Engineering Laboratory' organized by ICT Mumbai under UGC Networking Resource Centre from May 29- 31, 2009.
6. Attended workshop on 'Process Intensification of Chemical Processing Applications' organized by ICT Mumbai, under UGC Networking Resource Centre, January 28-30, 2011.
7. Workshop on 'Alternative Sustainable Processes' organized by ICT Mumbai under UGC Networking Resource Centre during March 14-18, 2012.
8. Complimentary seminar on 'MATLAB and Simulink for Engineering Education' organized

by Mathworks India Private Limited at Mumbai on September 07, 2012.

9. Attended Training Program on 'Environmental Management & Waste Water Treatment' at RCF, Chembur, Mumbai during September 25-26, 2012.
10. Participated in workshop on 'Process Intensification' held at AISSMS COE between Jan.9-10, 2015.
11. Organised short workshop on 'Process Simulation' on Feb. 26, 2015. Industry expert Mr Sadananda Konchady, Consultant Chemical Engineer was invited to deliver talks and demonstrate process simulation using CHEMCAD.
12. Participated in national level seminar on 'Sustainable Technologies for Specialty and Fine Chemicals' organized by AISSMS COE, Pune on March 18-19, 2016.
13. Participated in one day workshop on 'Virtual Labs' held at AISSMS COE on August 04, 2017.
14. Attended two day national seminar on 'Environment and Green technologies', held at AISSMS COE during January 17-18, 2019

***Workshop/STTP/Seminar /FDP/Conference organized:***

1. Co-ordinated and Organised Department Advisory Meeting-2016 on Sept. 24, 2016. Dr B. D. Kulkarni from NCL Pune and Mr Milind Talathi from Elantas Beck, Pune were the guests for the meeting
2. Organized a seminar on 'Study Abroad Opportunities and Scholarship' for UG/PG students and faculty on October 07, 2015. 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
3. Co-ordinated Department Advisory Meeting (DAC)-2015. Dr B. D. Kulkarni from NCL Pune and Mr Milind Talathi from Elantas Beck, Pune were the present members for the meeting on Oct. 01, 2015.

4. Co-ordinated Department Advisory Meeting (DAC)-2016. Dr B. D. Kulkarni from NCL Pune and Mr Milind Talathi from Elantas Beck, Pune were the present members for the meeting on Sept 24, 2016.
5. Organized and co-ordinated Faculty Development Program on ‘ Pedagogy Practices’ held at AISSMS COE on January 16-17, 2018
6. Organized and co-ordinated Faculty Development Program on ‘Waste Management and Energy Conservation’ held at AISSMS COE, Pune on June 28-29, 2018.
7. UNISIM Workshop Sept 2018
8. Organized and co-ordinated ISTE and IE sponsored one week Orientation Program on ‘Modern Pedagogy and Recent Technological Development’ held at AISSMS COE, Pune during December 10-14, 2018.
9. Organized and co-ordinated ISTE sponsored one week Orientation Program on ‘Modern Pedagogy and Recent Technological Development’ held at AISSMS COE, Pune during June 10-15, 2019.

***Contribution as Resource person:***

1. Invited to speak on ‘CFD governing equations and solution techniques’ in one day workshop conducted for faculty and students on CFD applications organized by Department of Chemical Engineering on March 22, 2013.
2. Invited as judge for Paper Presentation Event organized in’ Prakaalpa-2014’ at MAE Alandi on 5<sup>th</sup> and 6<sup>th</sup> September, 2014 .
3. Invited to speak on ‘Nuclear Waste Management’ in the national seminar on ‘FRONTIER TECHNOLOGIES IN WASTE MANAGEMENT’ held during January 15-17, 2014.
4. Invited by Department of Chemical Engineering, MAE Alandi, Pune for judging the event for ‘12<sup>th</sup> National Chemical Engineering Students Conference ‘PRAKALP-2016’ on Aug. 27, 2016.
5. Prof. P N Dange conducted workshop for interested students from SE, TE and BE Chemical on ‘Process Simulation by UNISIM’ on September 07-08, 2016.



6. Invited as speaker for the national level Seminar 'Advances in Chemical Reactor Design' held between, February 27-28, 2017 at AISSMS College of Engineering. Delivered talks on 'Thermodynamics and kinetics aspects in heterogeneous reactors'.
7. Invited as judge in the Project competition for BE Chemical Students held in Vishwakarma Institute of Technology, Pune on May 02, 2017
8. Was invited as a Judge for the Technical Event organized by Department of Chemical Engineering, DYPIEMR Akurdi Pune-411044 on January 12, 2016
9. Was invited as expert for judging the technical event in 'PAPYRUS 2016' organized by Institute of Chemical Technology Mumbai on October 23, 2016.
10. Invited for judging the technical competition in 'Prakalp' at MAE Alandi on September 8-9, 2017.
11. Prof. P N Dange conducted workshop for students of TE and BE Chemical on 'Process Simulation by UNISIM' on September 07 and September 11, 2017.
12. Was invited as expert for judging the technical event in 'PAPYRUS 2017' organized by Institute of Chemical Technology, Mumbai on October 14, 2017.

***Responsibilities handled at University/institute***

1. Head of the Department of Chemical Engineering from July, 2010 to June, 2014 at Department of Chemical Engineering, AISSMS COE, Pune
2. Subject Chairman in various UG and PG subjects
3. Served as Sr Supervisor for SPPU university examination (PG) (April/May 2016)
4. Worked as a Co-ordinator for SE Online Examination (Phase I and Phase II) at Institute (Term-II, AY 2015-16)
5. Served as Sr Supervisor for SPPU University Examination (UG) (Nov. /Dec. 2016)
6. Co-ordinator for Continuing Education and Staff Development from September 2017 onwards

***Software Proficiency:*** UNISIM, CHEMCAD, ANSYS and MATLAB

**Declaration:** I hereby declare that the information furnished above is true to best of my knowledge.

Place: Pune

Dr. P. N. Dange