

CURRICULUM – VITAE

Dr. J. B. Naik

Professor & Head

Dept. of Chemical Engineering,
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Area of Professional Interests:

Biocompatible/biodegradable Polymers, Drug Delivery, Taste Masking, Chemical Kinetics, Nanotechnology, Polyelectrolyte, Polymer Blends and Composites, etc.

Personal Information:

Date of Birth	Nationality	Languages Known
02-09-1971	Indian	Marathi, Hindi, English

Details of Professional Academic Record:

Examination/ Degree	University	Year of Passing	% Marks	Major Subjects
Ph. D.	North Maharashtra University, Jalgaon (M.S.)	1999	“Development of Natural fiber: Polymer Composites”	
P. G.	North Maharashtra University, Jalgaon (M.S.)	1994	63.00 %	Chemical Technology
U. G.	University of Pune, Pune (M.S.)	1992	65.00 %	Chemical

Sr. No.	Awards and Scholarships	Year of Awards
1	Junior Research Fellowship (Govt. of Maharashtra)	April 1995
2	Senior Research Fellowship (C. S. I. R., New Delhi)	October 1997
3	Best Research and Development award (North Maharashtra University, Jalgaon)	August 2013
4	Best Research Paper Publication award (North Maharashtra University, Jalgaon)	August 2014
5	Best Research Paper Publication award (North Maharashtra University, Jalgaon)	August 2015

Employment Background:

Name and Address of the Employer	Position	Tenure	Job Responsibilities
North Maharashtra University, Jalgaon	Professor Department of Chemical Technology	July 2008 (Till date)	i. Teaching to B. Tech. & M. Tech. (Chem. Tech.) ii. Research, Extension & Administrative work
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad- 431 004	Associate Professor Department of Chemical Technology	July 2006 To July 2008	i. Teaching to B. Tech. (Chemical Tech.) ii. Research & Administrative work
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad- 431 004	Reader Department of Chemical Technology	July 2003 To July 2006	i. Teaching to B. Tech. (Chemical Tech.) ii. Research & Administrative work
Dr. Babasaheb Ambedkar Marathwada University, Aurangabad- 431 004	Lecturer Department of Chemical Technology	January 1998 To July 2003	i. Teaching to B. Sc. Tech. and B. Tech. (Chemical Tech.) iii. Research & Administrative work

Subjects taught: Momentum Transfer/ Fluid Mechanics, Mechanical Operations, Heat Transfer, Mass Transfer, Chemical Process Industries, Industrial Pollution Control/Pollution Control in Chemical Industries, Modern Methods of Instrumental Analysis.

Particulars about Research Work Carried out at Different Stages of Career:

- Development of sustained released micro particles/nanoparticles of some anti-diabetic, antihypertensive drugs and NSADs
- Taste masking of bitter drugs
- Formulation development of some herbal drugs
- Development of some biocompatible polymers and polyelectrolyte (anti scaling agents)
- Development of Value Added Products from Agro-waste
- Optimization of Process for the Synthesis of some thermoset polymers

Research Guide

M. Tech. (awarded) - 30

Ph. D. (awarded) - 10

Ph. D. (thesis/synopsis submitted) - 02

Ph. D. (registered) - 08

Research Projects

Completed:

- i. UGC sponsored Minor Research Project entitled “Studies on sustained released of some Anti-diabetic drugs”.
- ii. UGC sponsored Major Research Project entitled “Development of sustained released micro particles of some Anti-diabetic drugs”.
- iii. CSIR sponsored Major Research Project “Investigation of scale formation and its mitigation by using different polyelectrolyte in heat exchange equipments”
- iv. UGC sponsored Major Research Project entitled “Development of site specific drug delivery system for oral formulation of NSAIDs”
- v. DST, Nano mission, sponsored Major research project entitled “Development and formulation of sustained released Nano particles of some Anti-diabetic drugs”.
- vi. DRDO sponsored Major research project entitled “Development of drug delivery system for oral formulation of anti-hyperglycemic with anti-hypertensive drugs”

Ongoing:

- i. TEQIP-II sponsored “Influence of Operating Parameters on CaSO₄ Nanoparticle Synthesis Using Micro reactor”

Coordinator

- i) DRS-I, SAP, UGC, New Delhi
- ii) TEQIP-II, MHRD, New Delhi

Member of Professional bodies:

- i. Expert committee member, UGC, New Delhi
- ii. Peer Team Member, NAAC, Bangalore
- iii. Peer Team member, NBA, New Delhi
- iv. Senior member, Institute of Research Engineers and Doctors (IREDD)
- v. Life member of Indian Institute of Chemical Engineers (IChE)
- vi. Life member of Indian Society for Technical Education (ISTE)

- vii. Life member of Indian Science Congress Association (ISCA)
- viii. Life member of Indian Pharmaceutical Association (IPA)
- ix. Life member of Indian Desalination Association Congress (InDACON)
- x. Fellow member of The Council of Engineering and Technology (India)

Reviewer for Journals:

- i) Drug Delivery
- ii) Journal of Microencapsulation
- iii) Journal of Pharmaceutical Innovation
- iv) Journal of Materials Science & Engineering
- v) Powder Technology
- vi) American Journal of Pharmaceutical Sciences & Nanotechnology
- vii) African Journal of Pharmacy and Pharmacology
- viii) Advance Polymer Technology

Member of Editorial Board

- i. American Journal of Pharmaceutical Sciences & Nanotechnology
- ii. Scholarena Journal of Pharmacy and Pharmacology
- iii. Nano based Drug Delivery

Other Activities:

a) Extra work carried out:

- Dr. Babasaheb Ambedkar Marathwada University, Aurangabad (i – iv)
- i. Chairman, Ad-hoc Board in Chemical Technology (2005-2008)
 - ii. Member of Ad-hoc Board in Chemical Technology (2000-2005)
 - iii. Member of Ad-hoc Board in B. Tech. (P & PE)
 - iv. Member of syllabus committee for revision of Chemical Engineering Subjects in Chemical Technology
 - v. Member of BOS in Chemical Technology, Shivaji University, Kolhapur
 - vi. Member of Ad-hoc Board in Chemical Technology, North Maharashtra University, Jaljaon
 - vii. Member of Ad-hoc Board in Cosmetic Technology, North Maharashtra University, Jaljaon

b) Extra-Curricular Activities:

- i. Led team of B. Sc. Tech. Students for participation in Open House – 98, its scientific function organized by UDCT, NMU, Jalgaon for celebration of National Science Day.
- ii. Conducted regularly industrial tour of B.Sc. Tech. & B. Tech. (Chem. Tech.) students for visit to reputed industrial organizations and Institutes,
- iii. Counseling & Guiding B. Sc. Tech., B. Tech. & M. Tech. students for future career

c) Contribution to designing of new courses:

- i. Design of M. Tech. (Pharmaceutical Tech.) course at UDCT, Jalgaon
- ii. Design of B. Tech. (Cosmetic Tech.) course at NMU, Jalgaon
- iii. Design of M. Tech. (Pharmaceutical Tech.) course at UDCT, Aurangabad
- iv. Designed B. Tech. (Chem.) Course (I-IV year) at UDCT, Aurangabad
- v. Designed B. Tech. (Plastics) II-IV Yr Course at MIT College, Aurangabad
- vi. Designed B. Tech. (Food Tech.) I-IV Yr Course at Shivaji University, Kolhapur

d) Jury Member/Chairperson/Co-chairperson/Expert

- i. National level paper presentation competition for Engineering & Technology Students, Maharashtra Institute of Technology, Aurangabad, 15 – 17th Sept. 2003, 2004, 2005, 2006 and 2007 respectively.
- ii. National conference on emerging trends in Engineering, Technology & Management, COET, Bambhori, 29March 2010.
- iii. National conference on Pharmaceutical Analysis, UDCT, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, 16-17 September 2011.
- iv. International Conference on Advances in Chemical Engineering, TKMCE, Kollam, 16-18 October 2014.

e) Lectures delivered

- i. Short Term Training Programme (STTP) organized by UDCT, NMU, Jalgaon during 1-21 April, 2010
- ii. Certificate course on Nano Technology, week programme, organized by UDCT, NMU, Jalgaon during 11-15, May 2010
- iii. Certificate course on Nano Technology, week programme, organized by UDCT, NMU, Jalgaon during 11-15, May 2011
- iv. Staff Development Programme, AICTE sponsored programme organized by UDCT, NMU Jalgaon during 15-30, June 2011

- v. Refresher Course on Nano technology and Green Chemistry, UGC- Academic Staff College, Pune University sponsored programme organized by UDCT, NMU Jalgaon during 12 September 2011 to 2 October 2011.
- vi. 89th Orientation Course, UGC- Academic Staff College, Dr. B. A. M. University, Aurangabad, 3rd November 2011.
- vii. National Conference on “Interdisciplinary Approaches in Pharmaceutical Research”, organized by Y.B. Chavan College of Pharmacy, Aurangabad 5-6 March 2012
- viii. Staff Development Program, AICTE sponsored programme organized by SCT, NMU, Jalgaon during 15-30, June 2012
- ix. Staff Development Program, TEQIP sponsored program organized by UICT, NMU, Jalgaon during 20-25, June 2013
- x. TEQIP-II sponsored one week interdisciplinary Faculty Development Program on “Emerging Trends in Nanoscience and Nanotechnology” organized by SGGS college of Engineering, Nanded during 06-10, August 2013
- xi. DST-PURSE Scheme sponsored one day seminar on recent trends in processed foods and nutraceuticals organized by Department of Food Technology, Shivaji University, Kolhapur on 05th October 2013.

f) Conference/Workshop/Seminar organized

- i. Convenor, National Conference “Recent Advances in Chemical Engineering”, organized at UDCT, NMU, Jalgaon on 20th March 2010
- ii. Convenor, National Conference “Recent challenges in Pharmaceutical Sciences and Technology”, organized at UDCT, NMU, Jalgaon on 19th March 2011
- iii. Coordinator, 3rd Entrepreneurship Development Programme, AICTE sponsored, organized at UDCT, NMU Jalgaon during 11-13, July 2011
- iv. Coordinator, Refresher Course on Nano technology and Green Chemistry, UGC- Academic Staff College, Pune University sponsored programme organized at UDCT, NMU Jalgaon during 12 September 2011 to 2 October 2011.
- v. Coordinator, National Conference on Recent Challenges in Pharmaceutical Sciences and Technology, Organized at UDCT, NMU, Jalgaon, 19 March 2012.
- vi. Coordinator, National Conference on Recent Challenges in Pharmaceutical Sciences and Technology, Organized at UICT, NMU, Jalgaon, 16 March 2013.
- vii. Coordinator, National Conference on Recent Advances in Chemical Sciences, Technology and Environment, Organized at UICT, NMU, Jalgaon, 09 March 2015.

Patents:

- 1. Fast relief antacid powder composition for oral suspension, J.B. Naik, Vinod Mokale, Trupti Khatal, Shivraj Naik, Gokul Khairnar, 3496/MUM/2013, 2013
- 2. Gel Based drug Delivery system comprising self emulsifying formulation, J.B. Naik, Vinod Mokale, Sunil Yadav, Jayesh Patil, 4063/MUM/2013, 2013
- 3. Fast release taste mask dry powder for oral suspension, J. B. Naik Umakant Verma, G. A. Khairnar, V.J. Mokale, J. S. Patil, 3782/MUM/2014, 2014

4. Combinatorial Therapeutic Regimen of Antidiabetic with Antihypertensive Drugs, Jitendra B. Naik, Gokul A. Khairnar, Vinod J. Mokale, Pritam B. Patil, 3783/MUM/2014, 2014
- 5.

Research Publications:

A) Research Papers (selected):

1. "Mechanochemical Degradation of EVA-EPDM Blends", S. Mishra and **J. B. Naik**, 'Polym. Plast. Technol. Eng.' 36 (2), 231-240 (1997)
2. "Studies on Mechanical Properties of Polyvinyl Chloride", S. Mishra, G. B. Perumal and **J. B. Naik**, 'Polym. Plast. Technol. Eng.', 36 (4) 489-500 (1997)
3. "Absorption of Steam and Water at ambient temperature in Wood Polymer composites prepared from Agro-waste and Novolac", S. Mishra and **J. B. Naik**, 'J. Appl. Polym. Sci.', 68 (11), 1417-1421 (1998)
4. "Absorption of Water at ambient temperature and Steam in Wood Polymer composites prepared from Agro-waste and Polystyrene", S. Mishra and **J. B. Naik**, 'J. Appl. Polym. Sci.', 68 (4), 681-686 (1998).
5. "Studies on Swelling Behavior of Wood Polymer Composites Based on Agro-waste and HDPE", S. Mishra and **J. B. Naik**, 'Polym. Plast. Technol. Eng.' 38(5), 1051 – 1058, (1999)
6. "The compatibilising effect of maleic anhydride on swelling and mechanical Properties of plant-fiber-reinforced novolac composites", S. Mishra, **J. B. Naik** and Y. P. Patil, Composites Science and Technology, 67, 1729 – 1735 (2000)
7. "Swelling Properties of Wood Polymer Composites Based on Agro-waste and Novolac", S. Mishra, **J. B. Naik** and Y. P. Patil, J. Advances in Polymer Technology 23, 46-50, (2004)
8. "Studies on Electrical Properties of Wood Polymer Composites Based on Agro-waste and Novolac", **J. B. Naik** and S. Mishra, 'Polym. Plast. Technol. Eng.', 43 (4), 1085-1091, (2004)
9. "Mechanical Properties of Wood Polymer Composites prepared from Agro-waste and HDPE", S. Mishra and **J. B. Naik**, 'Polym. Plast. Technol. Eng, 44:511-522 (2005)
10. "Effect of treatment of Maleic anhydride on Mechanical Properties of Natural fiber: Polystyrene Composites", S. Mishra and **J. B. Naik**, 'Polym. Plast. Technol. Eng., 44:663-675 (2005)
11. "Studies on Electrical Properties of Natural fiber: HDPE Composites", **J. B. Naik** and S. Mishra, 'Polym. Plast. Technol. Eng., 44:687-693 (2005)
12. "The compatibilising effect of maleic anhydride on swelling properties of plant-fiber-reinforced polystyrene composites", S. Mishra and **J. B. Naik**, Polym. Plast. Technol. Eng., 45: 923–927 (2006)

13. "Esterification effect of maleic anhydride on surface and volume resistivity of natural fiber/Polystyrene composites, **J. B. Naik** and S. Mishra, *Polym. Plast. Technol. Eng.*, 46: 537–540 (2007)
14. "Esterification effect of maleic anhydride on swelling properties of natural fiber: High Density Poly Ethylene composites", S. Mishra and **J. B. Naik**, *J. Applied Polymer Science*, 106 (4): 2571 -2574 (2007)
15. "Effect of polymer concentration on dissolution of Pioglitazone Hydrochloride", **J. B. Naik**, Syed Farook Ali and D. N. Muley, *Polym. Plast. Technol. Eng.*, 47: 722–725, (2008)
16. "Investigation of Scale mitigation and sequestering properties of some polyelectrolytes", J. B. Naik, S. Mishra and D. A. Deore, *J. Polym. Plast. Technol. Engg.* 49, 69-73 (2010)
17. "Effect of polymer concentration on sustained release microparticles of Metformin hydrochloride prepared by using spray dryer", Preeti Subhedar, J. B. Naik and D. N. Muley, *J. Polym. Plast. Technol. Engg.* 49: 267–271 (2010)
18. "Fast dispersible tablet of paroxetine hydrochloride: taste masking and administration in depressed patients", **J. B. Naik** and M. R. Syed, *Lat. Am. J. of Pharmacy*, 29 (5):667-73 (2010)
19. "Ultrasound assisted miniemulsion synthesis of PANI/Ag nanocomposite and its application for ethanol vapor sensing", Shrikant S. Barkade, **Jitendra B. Naik**, Shirish H. Sonawane, *Journal of Colloids & Surfaces Part A*, 378, 94 – 98, 2011
20. Preparation and characterization of biodegradable cefpodoxime proxetil nanocapsules, Dhiraj Muratkar Lakshya Untwal and **Jitendra Naik**, *Asian Journal of Pharmaceutical Sciences*, 7(2): 143-148, 2012
21. "Development of sustained Release Micro/Nano particles Using Different solvent Emulsification Technique: A Review" **J. B. Naik**, A.B. Lokhande, S. Mishra and R. D. Kulkarni, *International Journal of Pharma and Biosciences*, 3(4), 573-590, 2012.
22. Removal of Brilliant Green from wastewater using conventional and ultrasonically prepared poly(acrylic acid) hydrogel loaded with kaolin clay: A comparative study, Sachin R. Shirsath, Anup P. Patil, Rohit Patil, **Jitendra B. Naik**, Parag R. Gogate, Shirish H. Sonawane, *Ultrasonics Sonochemistry*, 20: 914–923, 2013
23. "Ultrasound assisted miniemulsion polymerization for preparation of polypyrrole zinc oxide (PPy/ZnO) functional latex for LPG sensing" S. S Barkade , D V Pinjari , A K Singh, P R Gogate , **J.B. Naik** , S. H. Sonawane , M Ashokkumar , and A.B. Pandit, *Ind. Eng. Chem. Res.* 52 (23): 7704–7712, 2013
24. "Effect of solvents, drug/polymer ratios, surfactant concentration on *in vitro* characteristics of repaglinide loaded poly (meth) acrylates nanoparticles: a comparative study", **Jitendra B. Naik**, Amolkumar B. Lokhande, Satyendra Mishra and Ravindra D. Kulkarni, *Journal of Pharmacy Research*, 7 (5): 414-420, 2013
25. "Preparation and characterization of repaglinide loaded ethylcellulose nanoparticles by solvent diffusion technique using high pressure homogenizer", J.B. Naik, A. B.

- Lokhande, S. Mishra and R. D. Kulkarni, *Journal of Pharmacy Research*, 7 (5): 421-426, 2013
26. Ultrasound assisted synthesis of Polythiophene/SnO₂ Hybrid nanolatex particles for LPG Sensing, S.S. Barkade, D.V. Pinjari, U.T. Nakate, A.K. Singh, P.R. Gogate, **J.B. Naik**, S.H. Sonawane, A.B. Pandit, *Chemical Engineering and Processing: Process Intensification*, 74: 115-123, 2013
 27. Formulation and Development of Diltiazem Hydrochloride Sustained Release Alginate Beads by Ionotropic External Gelation Technique, Mokale Vinod, **Naik Jitendra**, Khairnar Gayatri, Khairnar Gokul, *Advances in Pharmacology and Pharmacy*, 1(3): 139-143, 2013
 28. Diclofenac Sodium-Loaded Eudragit® Microspheres: Optimization Using Statistical Experimental Design, Rameshwar K. Deshmukh & **Jitendra B. Naik**, *J Pharm Innov.* 8:276-287, 2013
 29. Enhancement of Solubility with Formulation & in-vitro Evaluation of Oral Nateglinide Compacts by Liquisolid Technique, Mokale Vinod, **Naik Jitendra**, Patil Komal, Chaudhari Rahul, Khairnar Gokul, *Advances in Diabetes and Metabolism*, 1(3): 57-64, 2013
 30. Aceclofenac Microspheres: Quality by Design Approach, Deshmukh RK, Naik JB, *Material Science and Engineering C*, 36 (C): 320-328, 2014
 31. Formulation and development of nateglinide loaded sustained release ethyl cellulose microspheres by O/W solvent emulsification technique, Gokul Khairnar Vinod Mokale **Jitendra Naik**, *Journal of Pharmaceutical Investigation*,
 32. Sodium alginate/ HPMC / liquid paraffin emulsified (o/w) gel beads, by factorial design approach; and in vitro analysis, Sunil Kumar Yadava, Jayesh S. Patil, Vinod J. Mokale and **J. B. Naik**, *J Sol-Gel Sci Technol*, 71: 60-68, 2014
 33. Chitosan reinforced alginate controlled release beads of losartan potassium: design, formulation and in vitro evaluation, Vinod Mokale, Naik Jitendra, Sutar Yogesh, Khairnar Gokul, *Journal of Pharmaceutical Investigation*, 44(4): 243-252, 2014
 34. "Formulation and development of nanoparticles for quick and complete release of Hydrochlorothiazide by nanonization technique" V. J. Mokale, J. B. Naik, U. Verma, *Micro and Nano system*, 6: 109 -117, 2014
 35. "Effect of Solvents, Drug/Polymer Ratio and Surfactant Concentration on In Vitro Characteristic of Repaglinide Loaded Poly (Meth) Acrylate Nanoparticles", Amolkumar Lokhande, Satyendra Mishra, Ravindra Kulkarni and Jitendra Naik *Micro and Nano system*, 2014
 36. "The impact of preparation parameters on sustained release aceclofenac microspheres: a design of experiments Jitendra B. Naik and Rameshwar K. Deshmukh", *Advanced Powder Technology*, 26: 244–252, 2015
 37. Optimization of sustained release aceclofenac microspheres using response surface methodology, Rameshwar K. Deshmukh and Jitendra B. Naik, *Materials Science and Engineering C* 48: 197–204, 2015

38. Enhanced solubility and bioavailability of lovastatin using stabilized form of self-emulsifying drug delivery system, S. K. Yadava, J. B. Naik, Jayesh S. Patil, V. J. Mokale, Ruby Singh, *Colloids and Surfaces A: Physicochem. Engg. Aspects*, 481: 63–71, 2015
39. Pritam Patil, Gokul Khairnar, Jitendra Naik Preparation and statistical optimization of Losartan Potassium loaded nanoparticles using Box Behnken factorial design: Micro reactor precipitation *Chemical Engineering Research and Design*, 104: 98–109, 2015
40. “Formulation and optimisation of famotidine proniosomes: an in vitro and ex vivo study” V. J. Mokale, Harshada Patil, Ajit P. Patil, P. Shirude and Jitendra Naik, *Journal of Experimental Nanoscience*, online 2015

B) Presentations in National and International Conferences (selected):

1. "Studies on Swelling Properties of Wood Polymer Composites Based on Agro-waste and Novolac", S. Mishra, **J. B. Naik** and Y. P. Patil, accepted for oral presentation in National Seminar & Technical Exhibition, February 21-22, 1998, Raipur.
2. “Effect of treatment of Maleic anhydride on Mechanical Properties of Wood Polymer Composites Based on Agro-waste and HDPE”, S. Mishra and **J. B. Naik**, accepted for oral presentation in International Symposium on Polymers Beyond AD 2000, 12-15 Jan.1999. IIT, New Delhi.
3. “Effect of treatment of Maleic anhydride on Mechanical Properties of Wood Polymer Composites Based on Agro-waste and Polystyrene”, S. Mishra and **J. B. Naik**, accepted for oral presentation in International Conference, EURO FILLERS’ 99, France.
4. “Swelling Properties of Wood Polymer Composites Based on Agro-waste and Novolac”, **J. B. Naik** and S. Mishra, accepted for oral presentation in National Symposium on Polymers and Composites, December 6-8, 2000, Kanpur
5. “Studies on Electrical Properties of Wood Polymer Composites Based on Agro-waste and HDPE”, **J. B. Naik** and S. Mishra, International Conference, Polymers in The Third Millennium, 2-6 September 2001, London
6. “Electrical Properties of Wood Polymer Composites Based on Agro-waste and Novolac”, S. Mishra and **J. B. Naik**, 16th Annual Technical Conference of the American Society for Composites, Blacksburg, VA, 2001
7. “Studies on preparation and storage of garlic – ginger paste” B. K. Sakhale and **J. B. Naik**, Poster presented in National seminar on New Horizons in Food Technology, on 5th March 2004, Osmania University, Hyderabad,
8. “Effect of concentration of osmotic agent on dehydrated mango slices” B. K. Sakhale, N. V. Chhanwal, V. N. Pawar and **J. B. Naik** and A. U. Wadhawe, Paper presented in International Symposium on Bio- Technology, October 15-16, 2005, Trichur, Kerala
9. “Compatibilising effect of maleic anhydride on swelling properties of natural fiber: HDPE composites” **J. B. Naik**, S. Mishra and D. A. Deore, Oral presentation in National Conference, January 6-7, 2006 N.M.U. Jalgaon

10. "L-arginine supplementation does not increase serum cholesterol level in normal and hyperglycemic rats", S. S. Angadi, **J. B. Naik**, H. D. Une, poster presented at XIth International conference of International society of chemists and biologists, Aurangabad, February 22nd –24th, 2007.
11. "Evaluation of scale mitigation properties of some water soluble polymers", Dipak Deore, **J. B. Naik**, National Conference on Advances in Chemical Engineering & Technology, ACET-07, at Department of Chemical Technology, Sant Longowal Institute of Engineering & Technology, Longowal, March 26- 27, 2007
12. "Anxiolytic activity of *Moringa oleifera* roots in alloxan induced diabetic rats", Hemant D. Une, S. S. Angadi, J. B. Naik, Presented at IPC, Varanasi in Dec. 2007
13. "Investigation of Scale mitigation and sequestering properties of some polyelectrolytes", Dipak Deore, **J. B. Naik**, S. Mishra, Presented in InDACON-2008 Symposium on Desalination, Integrated Water Management & Reuse Department of Chemical Engineering: Andhra University 28-29, Feb. 2008
14. "Hypoglycemic effect of *Zizyphus mauritiana* Lam. leaves in alloxan induced diabetic rats", Une Hemant D., Maheshwari Shete, , Lahoti S. R., Angadi S. S. and Naik J. B., Presented at 3rd Indo-Canadian symposium, Aurangabad, 27-29th March 2008
15. "Nanotechnology to revolutionize drug formulation and drug delivery systems", S. P. Zine and J. B. Naik, Presented at International Conference on Drug Discovery and Nanotechnology 2008, Nanded.
16. "Formulation of β -cyclodextrin matrix tablet of diclofenac sodium and in vitro evaluation for colon specific drug delivery", J. B. Naik and Sandeep Zine, Presented at 9th International symposium on Advances in Technology and Business potential of new drug delivery system, Mumbai, 25 -26th February 2009.
17. "Need for development and formulation of sustained release nanoparticles of some antidiabetic drugs", J. B. Naik and V. J. Mokale, Presented in an International Conference on Nanotech India 2009, at Cochin, 14-16th August 2009.
18. "Studies on Scale formation and mitigation and mitigation on continuously operating heat exchanger test rig", Ajit Divte, Sagar Kalwade, **J. B. Naik**, S. Mishra, Dipak Deore, Presented at CHEMCON-2009, Department of Chemical Engineering, Andhra University, Visakhapatnam, 27-30 Dec. 2009.
19. "Evaluation of antiscaling properties of Polymaleic acid", Dipak Deore, **J.B. Naik**, S. Mishra, Recent Advances in Polymer Technology, North Maharashtra University, Jalgaon, 28-29 December 2009.
20. "A novel candidate for ethanol vapor sensing: Polyaniline/ silver nano composites", S. S. Barkade, J. B. Naik and S. H. Sonawane, presented in an International conference on Recent Trends in Polymer Technology, N. M. U., Jalgaon, 28-29 December 2009.
21. "Microencapsulation study by double emulsion solvent diffusion technique", J. B. Naik, V. J. Mokale, R. K. Deshmukh, S. V. Gawai, Presented in International Conference, NANO-2010 at Coimbatore, 13- 16 December 2010.

22. "Development of single unit floating pulsatile site specific drug delivery system for oral formulation of NSAID'S", S. P. Zine and J. B. Naik presentation at the 11th International Symposium of CRS-Indian Chapter on "Advances in Technology and Business Potential of New Drug Delivery Systems" held in Mumbai on 16th-17th February 2011.
23. "Formulation of glibenclamide poly (lactic acid) loaded nano particles as a sustained release drug delivery system", Mishra S., Naik J. B., Gupta B., Shimpi N. G. and Mokale V. J., Presented at National Conference on Impact of Nanotechnology on Drug Discovery & Development, Koti Resort, Shimla (H. P.), June 26-27, 2011.
24. "Esterification effect of maleic anhydride on swelling and mechanical properties of Natural Fiber/ Polystyrene Composites", J. B. Naik and S. Mishra Presented in International conference on Composite materials, August 21-26, 2011, Jeju, South Korea.
25. "Preparation and Evaluation of Micro/nano Particles of Propranolol Hydrochloride within Ethyl cellulose using Solvent Evaporation Method", J. B. Naik and S. H. Pandav presented in an International conference on Frontiers in Nanoscience, Nanotechnology and their Applications held at Punjab University, Chandigarh, 16-18 February 2012
26. "Preparation and Characterization of Micro/nano Particles of Propranolol Hydrochloride using Eudragit[®] RS Polymer", J. B. Naik and S. H. Pandav presented in National conference on recent challenges in pharmaceutical sciences and technology held at UDCT NMU Jalgaon, 28 March 2012
27. "Development of sustained release of microparticles of acarbose using w/o/o technique" **Secured second prize** in poster presentation at National Conference on Recent Challenges in Pharmaceutical Sciences and Technology held at UDCT, NMU Jalgaon, 28 March 2012
28. A study on solubility enhancement of poorly water soluble drug Oxcarbazepine using different Solubilization techniques", A. L. Kulkarni, **J. B. Naik** and S. S. Toshniwal, presented in 15th International symposium on solubility phenomena & related equilibrium processes" held at Qinghai Institute of Salt Lakes, Chinese Academic of Science, Xining, China, 22-27 July 2012
29. "Highly water soluble compound Metoprolol: Study using drug release retardants", A. L. Kulkarni, **J. B. Naik** and S. S. Toshniwal, presented in 15th International symposium on solubility phenomena & related equilibrium processes" held at Qinghai Institute of Salt Lakes, Chinese Academic of Science, Xining, China, 22-27 July 2012
30. "Studies on sustained released dosage form development of highly water soluble API: Use of various hydrophilic and hydrophobic excipient approaches", A. L. Kulkarni, **J. B. Naik** and S. S. Toshniwal, presented in 2012 AAPS annual meeting and exhibition, Mc Cormick Place, Chikago, October 14-18, 201
31. "Solubilization and sustained released development formulation therein oxcarbazepine BCS class II compound with high drug load", **J. B. Naik**, A. L. Kulkarni and S. S. Toshniwal, presented in 2012 AAPS annual meeting and exhibition, Mc Cormick Place, Chikago, October 14-18, 2012
32. Evaluation of solubility enhancement approaches and sustained released development formulation therein oxcarbazepine BCS class II compound", A. L. Kulkarni, **J. B. Naik**

and S. S. Toshniwal, presented in 2012 AAPS annual meeting and exhibition, McCormick Place, Chicago, October 14-18, 2012

Poster presented at International conference on nanotechnology lessons from nature and emerging technologies on 25th – 26th July 2013 at Ansal University, Gurgaon.

33. “Site specific fast release Sodium alginate/Liquid paraffin emulsified (o/w) gel beads”, Sunil Yadav, J.B.Naik, Jayesh S Patil.
34. “Development of Taste masked Fast Dissolving Tablet of Famotidine”, Umakant Verma, Vinod j Mokale, J.B.Naik, Jayesh S Patil
35. “Development of Losartan Potassium Sustained Release Microspheres by Different Solvent Emulsification Methods”, Gokul Khainar, Vinod J Mokale, J.B.Naik
36. Aceclofenac microspheres: optimization of formulation using iv-optimal Statistical design oral presentation at 3rd World Conference on Physico Chemical Methods in Drug Discovery and Development, Dubrovnik, Croatia, September 23-26, 2013
37. poster presentation at 3rd World Conference on Physico Chemical Methods in Drug Discovery and Development, Dubrovnik, Croatia, September 23-26, 2013
38. “Study on Gas distributor and heat transfer in gas solid fluidized bed” Sayali Titre, Nitu Baveja, J. B. Naik, International Conference on Chemical and Bioprocess Engineering – India, NIT, Warangal, November 16-17, 2013
39. “Influence of Operating Parameters on CaSO₄ Nanoparticle Synthesis using Micro reactor”, Pritam B. Patil and Jitendra B. Naik, International Conference on Engineering, NUiCONE 2013, Ahmedabad, Gujarat, November 28-30, 2013
40. “Synthesis of Monodispersed BaSO₄ nanoparticles using Micro reactor”, Sunilkumar Mohite, Pritam B. Patil and Jitendra B. Naik, Global Opportunities for Latest Developments in Chemistry and Technology (GOLD-CT), Feb 6-8, 2014.

Oral presentations at International conference on Advances in Chemical Engineering, TKMCE, Kollam, Kerala, 16-18 October 2014.

41. Glibenclamide Loaded PLA Nanoparticles Using Single Emulsion O/W Solvent Evaporation Method: A Factorial Design Approach, V. J. Mokale, Jitendra B. Naik, Sunil Kumar Yadava, Jayesh S. Patil and Umakant Verma
42. Development of Sustained Release Nanoparticles of Repaglinide by using Micro reactor Anti- solvent Precipitation Method, Gokul Khairnar, Pritam Patil, Jayesh Patil, Vinod Mokale and Jitendra Naik
43. Preparation and Characterisation of the Inclusion Complex of Famotidine with (2-Hydroxy Propyl) – β -Cyclodextrin & PVP K-30: Effects on Solubility and Bitter Taste Mask, Umakant Verma, J. B. Naik and V. J. Mokale
44. Preparation and Characterization of Single Pulse Sustained Release Ketorolac Nanoparticles to Reduce their Side-Effects at Gastrointestinal Tract, Jayesh Patil, Sunil Kumar Yadava, Vinod J. Mokale and Jitendra B. Naik
45. Microreactor Assisted Synthesis of Calcium Sulfate Nanostructures, Pritam Patil and Jitendra B. Naik

46. Liquid Phase Acylation of Mesitylene over H-Beta Zeolite: A Kinetic Study, Swapnil Ghungrud, S Mayadevi and Jitendra B. Naik
47. Biological denitrification of water containing nitrate using pseudomonas stutzeri, Sayali Titre, Akshay Jakate, Pritam Patil and Jitendra Naik, Third Global Sustainable Biotech Congress, December 1-5, 2014
48. "Effect of Polymer and Surfactant Concentration on Development of Sustained Release Microspheres of Nateglinide" Gokul Khainar, Vinod Mokale, Jitendra Naik. Oral Paper presentation at national conference "MACRO TECHNEVISTA" on theme "Recent Advances in Polymer Science & Technology", LIT, Nagpur, 23- 24th January, 2015

C) Conferences/Seminars/Workshops/Symposiums Attended (selected):

1. Workshop on "Needs of technology education" Dr. B. A. M. University, Aurangabad, 13th February 1999
2. Workshop on "Intellectual property right: Patent awareness" Dr. B. A. M. University, Aurangabad, 23rd June 2000
3. AICTE awareness workshop on Accreditation, Vishwakarma Institute of Technology, Pune, 8 – 9th April 2001
4. International conference on "Electroactive Polymers: Materials and Devices" Dalhousie (Himachal Pradesh) 1-5 Nov. 2004
5. One day awareness programme on ISO 22000:2005, Mumbai 18th October 2005
6. 1st Indo-Japanese International conference on "Advances in Pharmaceutical Research and Technology" Mumbai, November 25-29, 2005
7. Chemcon 2007, Kolkatta, 27-30 December 2007

D) Book Chapters:

- i) J. B. Naik, V. J. Mokale, R. K. Deshmukh, S. V. Gawai, "Microencapsulation study by double emulsion solvent diffusion technique", Synthesis and Characterization of Nanostructured Materials, 393-398 (2010), Macmillan Publishers India Limited.
- ii) J. B. Naik and S. H. Pandav, "Preparation and Evaluation of Micro/nano Particles of Propranolol Hydrochloride within Ethyl cellulose using Solvent Evaporation Method", Emerging Trends in Nanotechnology and their Applications, 427-434 (2013), Pearson India
- iii. V. J. Mokale, Jitendra B. Naik, Sunil Kumar Yadava, Jayesh S. Patil and Umakant Verma, "Glibenclamide Loaded PLA Nanoparticles Using Single Emulsion O/W Solvent Evaporation Method: A Factorial Design Approach", 51-54 (2014) ELSEVIER publication.
- iv. Pritam Patil and Jitendra B. Naik, "Microreactor Assisted Synthesis of Calcium Sulfate Nanostructures", 55-58 (2014) ELSEVIER publication.
- v. Jayesh Patil, Sunil Kumar Yadava, Vinod J. Mokale and Jitendra B. Naik, "Preparation and Characterization of Single Pulse Sustained Release Ketorolac Nanoparticles to Reduce their Side-Effects at Gastrointestinal Tract", 59-62 (2014) ELSEVIER publication.

- vi. Umakant Verma, J. B. Naik and V. J. Mokale, "Preparation and Characterisation of the Inclusion Complex of Famotidine with (2-Hydroxy Propyl) –B-Cyclodextrin & PVP K-30: Effects on Solubility and Bitter Taste Mask", 63-67 (2014) ELSEVIER publication.
- vii. Gokul Khairnar, Pritam Patil, Jayesh Patil, Vinod Mokale and Jitendra Naik, "Development of Sustained Release Nanoparticles of Repaglinide by using Micro reactor Anti- solvent Precipitation Method", 211-214 (2014) ELSEVIER publication.
- viii. Swapnil Ghungrud, S Mayadevi and Jitendra B. Naik, "Liquid Phase Acylation of Mesitylene over H-Beta Zeolite: A Kinetic Study", Advances in Chemical Engineering and Technology, 278-282 (2014) ELSEVIER publication.
- ix. S.S. Barkade, G.R. Gajare, S. Mishra, J. B. Naik, P.R. Gogate, D.V. Pinjari, and S.H. Sonawane, Recent Trends in Carbon Nanotubes / Graphene Functionalization for Gas/Vapor Sensing:A Review, Chemical Functionalization of Nano Materials: Chemistry and Applications, Taylor & Francis Group, CRC Press, 869-891, 2015

E) Visit Abroad: South Korea, China, Croatia, Malaysia

Additional Strengths:

- i. Knowledge of operations of plants in Industry
- ii. Well Conversant with Principles, Applications and Operations of Modern Instruments and Equipments.

Place: Jalgaon

Date: 24/08/2015

Sd/-

Dr. Jitendra B. Naik