

# Curriculum Vitae



## Dr. Vikas V. Gite *M. Sc. SET, Ph.D., Postdoc*

*Assistant Professor*

Department of Polymer Chemistry,  
School of Chemical Sciences,  
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### Educational Qualification

1. Post Graduate Diploma in Intellectual Property Rights, Indira Gandhi National Open University, New Delhi, 2021
2. Post Doctoral Research, Hanyang University, Seoul, South Korea, 2015.
3. Ph. D. in Chemistry, North Maharashtra University (NMU\*), Jalgaon, India, 2005.
4. State Eligibility Test (SET) in Chemistry - University of Pune & UGC, 2001
5. Master of Science in Polymer Chemistry, NMU, Jalgaon, India, 1999.
6. Bachelor of Science in Chemistry, NMU, Jalgaon, India, 1997.

\* Now Kavayitri Bahinabai Chaudhari North Maharashtra University (KBCNMU), Jalgaon, MS, India

### Research Areas

- ❖ Anticorrosive polyurethane coatings from renewable and non-renewable resources
- ❖ Smart self-healing coatings
- ❖ Polymers derived from renewable resources like vegetable oils, plant products, etc.
- ❖ Polymer composites and blends
- ❖ Microencapsulation
- ❖ Controlled release drug and pesticide formulations
- ❖ Polymer hydrogels for smart self-healing and superabsorbent applications

### Subjects Taught

M. Sc. Polymer Chemistry, B. Tech. Paint and Plastics, & M. Tech. Polymer

Teaching topics covered are.....

Principles of Polymer Sciences

Industrial Polymers and Paint Technology

Physical Chemistry of Polymers

Mechanical Properties of Polymers

Advance Topics in Polymers

Polymer Recycling and Waste Management

### Teaching Experience (approx. 18 years)

Institution	Position Held	Nature of Appointment	Subject		Period of Appointment
			Special	General	
School of Chem. Sci., KBCNMU, Jalgaon (M. S.) India	Assistant Professor	Full Time (Regular)	Polymer Chemistry	M. Sc. Chemistry	22/11/2007 - till date
School of Chem. Sci., NMU, Jalgaon (M. S.) India	Assistant Professor	Full Time (Against Lien Vacancy)	Polymer Chemistry	M. Sc. Chemistry	27/12/02 - 21/11/03

School of Chem. Sci., NMU, Jalgaon (M. S.) India	Assistant Professor	Full Time (Stop Gap)	Polymer Chemistry	M. Sc. Chemistry	18/02/2000 - 30/04/2000
University Institute of Chemical Technology, NMU, Jalgaon (M. S.) India	Assistant Professor	Contract faculty	Paint/Plastic Technology	B. Tech.	27/12/2003 - 30/04/2004
University Institute of Chemical Technology, NMU, Jalgaon (M. S.) India	Assistant Professor	Visiting faculty	Polymer Technology	M. Tech. Polymer Technology	Nov. 2007 - Nov. 2009
School of Chem. Sci., NMU, Jalgaon (M. S.) India	Lecturer	Part Time (CHB)	Polymer Chemistry	M. Sc. Chemistry	June 2000 - Nov. 2002

### Industrial Experience

Name and address of the Organization	Post Held	Period of service		Nature of duties
		From	To	
Jalgaon Packaging Pvt. Ltd., Jalgaon	R & D Manager	Sept. 1999	14/02/2000	Formulation of PVC solvent cement
P. N. B. Fertilizer Pvt. Ltd., Jalgaon	Laboratory Chemist	July 1996	July 1997	Analysis of superphosphate

### Other Professional Experience

Name and address of the Organisation	Post Held	Period of service		Nature of duties
		From	To	
Directorate of Forensic Science Laboratory, (Joined through MPSC, Govt. of Maha., Mumbai)	Assistant Chemical Analyser (Gazetted Off.-B)	08/09/2005	21/11/ 2007	Analysis of forensic samples & relevant research

### Awards and Honors

1. **Fellow of Maharashtra Academy of Sciences** (BLF1091) 28<sup>th</sup> Nov., 2020.
2. **Research Paper Publication Award 2017** of North Maharashtra University, Jalgaon, India.
3. **Research Funding Award 2017** of North Maharashtra University, Jalgaon, India.
4. **APA Young Scientist Award-2016** of Asian Polymer Association (APA), New Delhi, India received at Mauritius during 5-7<sup>th</sup> September, 2016.
5. **Research Paper Publication Award 2016** of North Maharashtra University, Jalgaon, India.
6. **Research Paper Publication Award 2015** of North Maharashtra University, Jalgaon, India.
7. **The Jordan Award (2006)** by Oil and Colour Chemicals Association (OCCA) of UK for the paper entitled "Synthesis and Characterization of Polyurethane Coatings Based on Trimer of IPDI and Monoglycerides of Oils" published in Surface Coatings International Part B- Coatings Transaction, 2006, 89, B2, 99-102.
8. **Rank one** in the university examination of M. Sc. Polymer Chemistry, North Maharashtra University, Jalgaon, India, 1999.
9. **Second prize** for the presentation "Increase in bio-based content of polyurethanes (PU) coatings prepared from vegetable oil and their dicarboxylic acids", in National conference on Recent Advances in Chemical Sciences, Techn. and Environment (RACSTE-2015), UICT, NMU, Jalgaon, India.

10. **Appreciation Award** for the presentation “Renewable sources based polymeric resins from algae oil and its applications for preparation of bio-composites using natural fibers”, in International conference on Emerging Trends in Oleo-chemicals & Lipids Expo – 2013 (OLEO-2013), Hyderabad, IICT Hyderabad, India, 8-10<sup>th</sup> August 2013.
11. **Nominated** in first five names for “Best Teacher Award” of North Maharashtra University, Jalgaon in 2012.
12. Recipient of ‘**Senior Research Fellowship (SRF)**’ of Council of Scientific & Industrial Research (CSIR), Govt. of India, New Delhi, 2004.
13. Recipient of **Industrial scholarship** of “Kishore Polyurethanes Pvt. Ltd., Nashik during 2001.
14. Awarded **Junior Research Fellowship (JRF)** of HEMRL, DRDO, Pune, 20<sup>th</sup> December, 2001.

## Research Guidance

### M. Tech. Polymer Technology – Awarded - 02

1.	Abhijeet Anand	Studies in sorbitol based eco-friendly two pack polyurethane coatings	2011
2.	Bhushan Chaudhari	Hydroxyapatite based polymer composites	2016

### Ph. D. degree in Chemistry or Chemical Technology

Awarded: 11, Thesis submitted: 02, Working: 01 + 02 (Registration is in process)

Sr.	Name of Student	Registration No. with date	Title	Status
1.	Rahul K. Hedao	NMU/11/Ph.D./ Chem/216/2011, 22/02/2011	Preparation and characterization of polymeric micro capsules containing pesticide molecule for their controlled release.	Awarded (Dec-2013)
2.	Ashok B. Chaudhari	NMU/11/Ph.D./ Chem/215/2011, 22/02/2011	Preparation of renewable source based polyols and their utilization in synthesis & formulation of polyurethanes for industrial coatings	Awarded (Dec-2014)
3.	Sandip D. Rajput	NMU/11/Ph.D./ Chem/237/2011, 22/02/2011	Utilization of renewable sources for preparation of polyesteramide polyols & their applications in anticorrosive polyurethane coatings.	Awarded (28 <sup>th</sup> , Feb. 2015)
4	Pyus D. Tatiya	NMU/11/Ph.D./ Chem/217/2011, 22/02/2011	Studies on synthesis, characterizations & applications of highly-branched polymers.	Awarded (15 <sup>th</sup> , Jan.2016)
5	Mahendra R. Nevare	NMU/11/Ph.D./ Chem/233/2011, 22/02/2011	Preparation and properties of polypropylene, ethyl vinyl acetate copolymer (EVA) and rubber nano composites.	Awarded (12 <sup>th</sup> , Jan-2016)
6	Ravindra J. Marathe	NMU/11/Ph.D./ Chem/302/2012, 20/01/2012	Preparation & characterization of microcapsules containing corrosion inhibitor to improve anticorrosive prop. of eco-friendly smart coating	Awarded (20 <sup>th</sup> , Jan-2018)
7	Abhijeet Anand	NMU/11/Ph.D./ Chem.Tech./7/2 012 21/05/2012	Synthesis of renewable polyols and formulation and characterization of 1K and 2K PU nano-composite coatings	Awarded (24 <sup>th</sup> , Feb.2018)
8	Chandrakant	NMU/11/Ph.D./	Use of agricultural feed stocks for synthesis	Awarded

	K. Patil	Chem ./53/2013	of polymeric resins for preparation of composite coating with antimicrobial properties	(13 <sup>th</sup> July, 2018)
9	Nandakishor B. Shirsath (co-guide)	NMU/11/Ph.D./ Chem ./08/2014	Polymeric composites: multi-task applications	Awarded (28 <sup>th</sup> , Jan.2019)
10	Miss Chandana B Roy (co-guide)	NMU/11/Ph.D./ Chem ./55/2013 06/05/2013	Synthesis, characterization and applications of new highly branched multivalent dendrimers	Awarded (Jan., 2019)
11	Jitendra C. Khanderay	NMU/11/Ph.D./ Chem ./53/2014	Renewable sources as a platform for synthesis of polymeric resins and reactive diluents for their applications in coatings and composites	Awarded (30 <sup>th</sup> Dec., 2019)
12	Nilesh Khairnar	NMU/11/Ph.D./ Chem./1/2014 dated 09/02/2015	Design and Synthesis of Imprinted Polymer by Various Methods and Their Applications	Thesis submitted (2020)
13	Mahendra S. Mahajan	NMU/11/Ph.D./ Chem./76/2014	Synthesis of polymeric resins from renewable based phenols and their applications for coating composite and encapsulation	Thesis submitted (Oct., 2020)
14	Rahul Karankar		Seeking permission for synopsis submission	
15	Sachin K Joshi		Registration process is undergoing	
16	Vikas J Patil (co-guide)		Registration process is undergoing	

#### Patents pending: (03)

1. Bendre R. S., Karandikar P., **Gite V.**, Construction of novel shell materials using renewable source based phenol for encapsulation of bioactive, TEMP/E-2/686/2019-MUM Filing no 201921011393, date of filed 25/03/2019
2. P. Mahulikar, **V. Gite**, R. Marathe, M. Mahajan, Coating composition containing dual core microcapsules for anticorrosive coatings, TEMP/E-1/44891/2016-MUM Filing no 201621045085, complete specification filed on 30/12/2017.
3. O. S. Yemul, B. S. Dawane, **V. V. Gite**, S. D. Rajput, A Process for the Preparation of Bio-Polymer Composite From Algae Oil, INDIAN PATENT Application No-234/MUM/2013 A.

#### No of Books/chapters contributed: 11

Edited – 01, Published – 04, Chapters Published/ Communicated – 06

##### Book Edited – 01

- 1 **Editors** - Prof. P. D. Lokhade & **Dr. V. V. Gite**, book entitled, “*Collection of Articles in Chemistry*”, Published by Applied Science Innovations Private Limited, Pune India, 2012, ISBN 978-81-906027-7-8.

#### **Books Published – 04**

- 1 Dr. U. R. Kapadi, Dr. V. D. Athawale, Dr. D. G. Hundiware, **Dr. V. V. Gite**, “*Experiments in Polymer Science*”, New Age International Private Limited, Mumbai, January, 2009, ISBN: 978-81-224-2388-4.
- 2 **Dr. V. V. Gite**, Prof. A. M. Nemade, “*Polymer Chemistry*”, Prashant Publications, (Text Book for B. Sc. Chemistry Students of North Maharashtra University, Jalgaon) 2017, ISBN: 978-93-85019-13-5.
- 3 **Dr. V. V. Gite**, Prof. A. M. Nemade, “*Polymer Chemistry*”, Prashant Publications, (Text Book for B. Sc. Chemistry Students of North Maharashtra University, Jalgaon) 2015, ISBN: 978-93-85019-17-3.
- 4 **Dr. V. V. Gite**, Mr. M. T. Chaudhari, “*Polymer Chemistry*”, Prashant Publications, (Text Book for B. Sc. Chemistry Students of North Maharashtra University, Jalgaon) 2010, (ISBN: 978-93-80638-12-6).

#### **Book Chapters Published/ Communicated – 05**

- 1 **Dr. Vikas V Gite**, Daewon Sohn, Piyus Tatiya, Ravindra J. Marathe, “*Insights of Technologies for Self-healing Organic Coatings*”, in edited book Handbook on Coating Technology, Elsevier Publishers (**Accepted**)
- 2 **Dr. Vikas V Gite**, Mr. Mahendra S. Mahajan, “*Microcapsule Assisted Smart Coatings Applications of Encapsulation and Controlled Release*”, CRC Press, Taylor and Francis Group, 2020, 249-266 Hard ISBN: 9781138118782.
- 3 **Dr. Vikas V Gite**, Mr. Mahendra S. Mahajan, “*Polymeric Microcapsule Based Self-Healing Smart Coatings Encyclopaedia of Polymer Applications*”, Taylor and Francis Group, 2018, ISBN 9781498729932.
- 4 Mahendra R. Nevare, **Dr. Vikas V. Gite**, “*Effect of Modified Nano Calcium Carbonate Nanofiller on Properties of PP/LDH Composites for the book entitled Advanced Polymeric Materials for Sustainability and Innovations*”, Apple Academic Press, Chapter 13, Hard ISBN: 9781771886338, E-Book ISBN: 9781315102436.
- 5 **Dr. V. V. Gite**, entitled chapter “*Advances in Polymerization*”, in edited book, “*Collection of Articles in Chemistry*”, published by Applied Science Innovations Private Limited, Pune India, 2012, 47-63 ISBN 978-81-906027-7-8.
- 6 **Dr. V. V. Gite** & A. B. Chaudhari entitled “*Incorporation of Modified Nano Montmorillonite (MMT) in Polyurethane Coatings Based on Acrylic Copolymer and Trimers Of IPDI*” in the edited book “*Engineering Applications of Nanoscience and Nanomaterials*”, Trans Tech Publications, Switzerland, 2013, 99-109, ISBN-13:978-3-03785-701-4.

#### **Research Publications:**

**Citation indices and other details** (<http://scholar.google.co.kr/citations?user=oJkpvO4AAAAJ&hl=en>)

Sr. No.	Particular	Details
1	Publications	60
2	Scientific articles	06
3	Citations	1499
4	h-index	24
5	i10 index	38

## List of selected Publications

- 60 N. A. Khairnar, **V. V. Gite\***, Chitosan-based Ion-Imprinted Polymer for Selective Extraction of Zn(II) in Aqueous Samples, *International Journal of Environmental Analytical Chemistry*, (Accepted) 2020, **Imp. Fac. 1.431**.
- 59 A. M. Patil, H. D. Jirimali, **V. V. Gite**, R. N. Jagtap, Synthesis and performance of bio-based hyperbranched polyol in polyurethane coatings, *Progress in Organic Coatings*, 2020, 149, 105895, **Imp. Fac. 4.469**.
- 58 A. M. Patil, **V. V. Gite**, H. D. Jirimali, R. N. Jagtap, Fully Biobased Nanocomposites of Hyperbranched-Polyol and Hydroxyapatite in Coating Applications, *Journal of Polymers and the Environment*, 1-12, **Imp. Fac. 2.572**.
- 57 M. S. Mahajan, P. P. Mahulikar, **V. V. Gite\***, 2020, Eugenol based renewable polyols for development of 2K anticorrosive polyurethane coatings, *Progress in Organic Coatings*, 2020, 148, 105826, **Imp. Fac. 4.469**
- 56 N. A. Khairnar, H. D. Jirimali, K. P. Patil, **V. V. Gite\***, Zinc ion-imprinted polymer based on silica particles modified carbon paste electrodes for highly selective electrochemical determination of zinc ions, *Polymer-Plastics Technology and Materials*, 2020, 1-17, **Imp. Fac. 1.655**.
- 55 N. A. Khairnar, **V. V. Gite\***, Selective solid-phase extraction of trace copper ions in an aqueous solution using ion-imprinted polymer, *Materials Today: Proceedings*, 2020, **Imp. Fac. 0.576**.
- 54 B. C. Chaudhari, J. Khandaray, C. Patil, A. M Patil, S. A. Joshi, V. Singh, K. K. Palodkar, A.V Sesha Sainath, **V. V Gite\***, H. D Jirimali, Waste Eggshells for the Decoration of Carbon Nanotubes and Graphene Nanosheets with Hydroxyapatite for Preparation of LLDPE Nanocomposites, *Journal of Polymers and the Environment*, 2019, 27, 2352-2359, **Imp. Fac. 2.572**.
- 53 J. C. Khandaray, **V. V. Gite\***, Fully biobased polyester polyols derived from renewable resources toward preparation of polyurethane and their application for coatings, *Journal of Applied Polymer Science*, 2019, 136, (22), 47558, **Imp. Fac. 2.50**.
- 52 GR Gupta, MR Nevare, AM Patil, **VV Gite**, Unprecedented exploration of ionic liquids as additives which astonishes the thermal stability of PVC formulations, *Bulletin of Materials Science*, 2019, 42, 203, **Imp. Fac.1.392**.
- 51 C. K. Patil, H. D. Jirimali, M. S. Mahajan, J. S. Paradeshi, B. L. Chaudhari, **V. V. Gite\***, Functional anti-corrosive and anti-bacterial surface coatings based on mercaptosuccinic and thiodipropionic acids and algae oil as renewable feedstock, *Reactive and Functional Polymers*, 2019, 139, 142-152, **Imp. Fac. 3.333**.
- 50 P. S. Karandikar, J. D. Rajput, S. D. Bagul, **V. V. Gite**, RS Bendre, Controlled release study of phenol formaldehyde based microcapsules containing various loading percentage of core cypermethrin at different agitation rates, *Polymer Bulletin*, 2019, 76, 5, 2519-2536, **Imp. Fac. 2.014**.
- 49 C. K. Patil, H. D. Jirimali, J. S. Paradeshi, B. L. Chaudhari, **V. V. Gite\***, Functional antimicrobial and anticorrosive polyurethane composite coatings from algae oil and silver doped egg shell hydroxyapatite for sustainable development, *Progress in Organic Coatings*, 2019, 128, 127-136, **Imp. Fac. 4.469**.
- 48 C. K. Patil, H. D. Jirimali, J. S. Paradeshi, B. L. Chaudhari, P. K. Alagi, S. C. Hong, **V. V. Gite\***, Synthesis of biobased polyols using algae oil for multifunctional polyurethane coatings, *Green Materials*, 2018, 6 (4), 165-177, **Imp. Fac. 1.67**.
- 47 P Alagi, R Ghorpade, J H Jang, C Patil, H Jirimali, **V Gite**, SC Hong, Controlled hydroxyl functionality of soybean oil-based polyols for polyurethane coatings with improved anticorrosion properties, 2018, *Macromolecular Research*, 26 (8), 696-703, **Imp. Fac. 2.047**.
- 46 H. D. Jirimali, B. C. Chaudhari, J. C. Khandaray, S. A Joshi, V. Singh, A. M Patil, **V. V Gite\***, Waste eggshell-derived calcium oxide and nanohydroxyapatite biomaterials for the preparation of LLDPE polymer nanocomposite and their thermomechanical study, *Polymer-Plastics Technology and Engineering*, 2018, 57 (8), 804-811, **Imp. Fac. 1.655**.

- 45 A. Anand, V. V. Gite\*, Utilisation of sebacic acid and nano hydroxyapatite in polyurethane nano-composite coating, *Green Materials*, **2018**, 6 (2), 65-75, **Imp. Fac. 1.67**.
- 44 M. R. Nevare, P. D. Tatiya, P. P. Mahulikar, V. V. Gite\*, Effect of maleated polypropylene as a compatibilizer and hyperbranched polyester as a processing aid on polypropylene-wood flour bio-composites, *Journal of Vinyl & Additive Technology*, **2018**, 24 (2), 179-184, **Imp. Fac. 1.55**.
- 43 S. D. Rajput, C. K. Patil, V. V. Gite\*, Fabrication of renewable myristic acid based polyurethane nano zinc phosphate hybrid coatings to mitigate corrosion of mild steel, *Pigment & Resin Technology*, **2018**, 47 (2), 97-107, **Imp. Fac. 0.724**.
- 42 P. Alagi, R. Ghorpade, J. H. Jang, C. Patil, H. Jirimali, V. Gite, S. C. Hong, Functional soybean oil-based polyols as sustainable feedstocks for polyurethane coatings, *Industrial Crops and Products*, **2018**, 113, 249-258, **Imp. Fac. 4.244**.
- 41 A. D. Kshirsagar, D. G. Hundiware, V. V. Gite, P. P. Mahulikar, Microwave-mediated synthesis of poly{[p-(azidomethyl)styrene]-co-(5-vinyltetrazole)} as an energetic polymer, *Chemistry of Heterocyclic Compounds*, **2017**, 53 (10), 1090-1093, **Imp. Fac. 1.519**.
- 40 J. C. Khanderao, V. V. Gite\*, Vegetable oil-based polyurethane coatings: recent developments in India, *Green Materials*, **2017**, 5 (3), 109-122, **Imp. Fac. 1.67**.
- 39 C. Patil, S. Rajput, R. Marathe, R. D. Kulkarni, H. Phadnis, D. Sohn, P. Mahulikar, V. V. Gite\*, Synthesis of bio-based polyurethane coatings from vegetable oil and dicarboxylic acids, *Progress in Organic Coatings*, **2017**, 86, 164-172, **Imp. Fac. 4.469**.
- 38 J. Lee, K. Chang, S. Kim, V. Gite, H. Chung, D. Sohn, Phase controllable hyaluronic acid hydrogel with iron(III) ion-catechol induced dual cross-linking by utilizing the gap of gelation kinetics, *Macromolecules*, **2016**, 49, 7450-7459, **Imp. Fac. 5.918**.
- 37 P. D. Tatiya, P. P. Mahulikar, V. V. Gite\*, Designing of polyamidoamine based polyurea microcapsules containing tung oil for anticorrosive coating applications, *Journal of Coating Technology and Research*, **2016**, 13 (4), 715-726, **Imp. Fac. 1.815**.
- 36 V. N. Mahire, V. E. Patel, A. B. Chaudhari, V. V. Gite, P. P. Mahulikar, Silane@ TiO<sub>2</sub> nanoparticles-driven expeditious synthesis of biologically active benzo [4, 5] imidazo [1, 2-a] chromeno [4, 3-d] pyrimidin-6-one scaffolds: A green approach, *Journal of Chemical Sciences*, **2016**, 128 (4), 671-677, **Imp. Fac. 1.298**.
- 35 P. D. Tatiya, M. R. Nevare, P. P. Mahulikar, V. V. Gite\*, Melt processing and characterization of PP/Pristine montmorillonite (MMT) nanocomposite: Influence of compatibilizer and hyperbranched copolymer, *Journal of Vinyl and Additive Technology*, **2016**, 22 (1), 72-79, **Imp. Fac. 1.55**.
- 34 R. Marathe, V. Gite\*, Encapsulation of 8-HQ as a corrosion inhibitor in PF and UF shells for enhanced anticorrosive properties of renewable source based smart PU coatings, *RSC Advances*, **2016**, 6, 114436-114446, **Imp. Fac. 3.119**.
- 33 A. Anand, R. D. Kulkarni, C. K. Patil, V. V. Gite\*, Utilization of renewable bio-based resources, viz. sorbitol, diol, and diacid, in the preparation of two pack PU anticorrosive coatings, *RSC Advances*, **2016**, 6, 9843-9850, **Imp. Fac. 3.119**.
- 32 R. Marathe, P. Tatiya, A. Chaudhari, J. Lee, P. Mahulikar, D. Sohn, V. Gite\*, Neem acetylated polyester polyol -renewable source based smart PU coatings containing quinoline (corrosion inhibitor) encapsulated polyurea microcapsules for enhance anticorrosive property, *Industrial Crops and Products*, **2015**, 77, 239-250, **Imp. Fac. 4.244**.
- 31 M. S. Gaikwad, V. V. Gite, D. G. Hundiware, O. S. Yemul, Eco-friendly polyurethane coatings from vegetable oil, *Progress in Organic Coatings*, **2015**, 86, 164-172, **Imp. Fac. 4.469**.
- 30 V. V. Gite\*, P. D. Tatiya, R. J. Marathe, P. P. Mahulikar, D. G. Hundiware, Microencapsulation of quinoline as a corrosion inhibitor in polyurea microcapsules for application in anticorrosive PU coatings, *Progress in Organic Coatings*, **2015**, 83, 11-18, **Imp. Fac. 4.469**.
- 29 A. B. Chaudhari, R. D. Kulkarni, P. P. Mahulikar, D. Sohn, V. V. Gite\*, Development of PU coatings from neem oil based alkyds prepared by monoglyceride route, *Journal of American Oil Chemist's Society*, **2015**, 92, 733-741, **Imp. Fac. 1.659**.

- 28 A.D. Kshirsagar, **V. V. Gite**, D. G. Hundiware, P. P. Mahulikar, Microwave assisted synthesis and characterization of glycidyl azid polymers containing different initiating diol units, *Central European Journal of Energetic Materials*, **2015**, 12 (4), 757-767, **Imp. Fac. 1.098**.
- 27 R. J. Marathe, A. B. Chaudhari, R. K. Hedao, D. Sohn, V. R. Chaudhari, **V. V. Gite\***, Urea formaldehyde (UF) microcapsules loaded with corrosion inhibitor for enhancing the anti-corrosive property of acrylic-based multifunctional PU coatings, *RSC Advances*, **2015**, 5, 15539-15546, **Imp. Fac. 3.119**.
- 26 S. D. Rajput, P. P. Mahulikar, D.G. Hundiware, **V. V. Gite\***, Fatty acid based polyurethane films and coatings, *Progress in Organic Coatings*, **2014**, 77, 1360-1368, **Imp. Fac. 4.469**.
- 25 P. D. Tatiya, M. R. Nevare, P. P. Mahulikar, **V. V. Gite\***, Melt processing & characterization of nano composites of PP/Na<sup>+</sup> MMT blending with hyperbranched polyester, *Polymer Plastics Technology Engineering*, **2014**, 53, 941-951, **Imp. Fac. 1.655**.
- 24 S. D. Rajput, **V. V. Gite\***, P. P. Mahulikar, V. R. Thamke, K. M. Kodam, A. S. Kuwar, Renewable source based non-biodegradable polyurethane coatings from polyesteramide prepared in one-pot using oleic acid, *Journal of American Oil Chemist's Society*, **2014**, 91, 1055-1063, **Imp. Fac. 1.659**.
- 23 M. R. Nevare, **V. V. Gite\***, P. P. Mahulikar, A. Ahamad, S. D. Rajput, Synergism between LDH and nano-zinc phosphate on the flammability and mechanical properties of polypropylene, *Polymer Plastics Technology Engineering*, **2014**, 53, 1-6, **Imp. Fac. 1.655**.
- 22 R. K. Hedao, P. D. Tatiya, P. P. Mahulikar, **V. V. Gite\***, Fabrication of dendritic OG PAMAM-based novel polyurea microcapsules for encapsulation of herbicide and release rate from polymer shell in different environment, *Designed Monomers and Polymers*, **2014**, 17(2), 111-125, **Imp. Fac. 1.750**.
- 21 R. K. Hedao, **V. V. Gite\***, Renewable resource-based polymeric microencapsulation of natural pesticide and its release study: an alternative green approach, *RSC Advances*, **2014**, 4, 18637-18644, **Imp. Fac. 3.119**.
- 20 R. K. Hedao, P. P. Mahulikar, A. B. Chaudhari, S. D. Rajput, **V. V. Gite\***, fabrication of core shell novel polyurea microcapsules using isophoronediiisocyanate (IPDI) trimer for release system, *International Journal of Polymeric Materials & Polymeric Biomaterials*, **2014**, 63, 1-9, **Imp. Fac. 1.982**.
- 19 A. B. Chaudhari, A.S.Kuwar, P. P. Mahulikar, D. G. Hundiware, R. D. Kulkarni, **V. V. Gite\***, Development of anticorrosive two pack polyurethane coatings based on modified fatty amide of Azadirachta indica Juss oil cured at room temperature – A sustainable resource, *RSC Advances*, **2014**, 4, 17866-17872, **Imp. Fac. 3.119**.
- 18 S. D. Rajput, P. P. Mahulikar, **V. V. Gite\***, Bio-based dimer fatty acid containing two pack polyurethane for wood finished coatings, *Progress in Organic Coatings*, **2014**, 77, 38-46, **Imp. Fac. 4.469**.
- 17 A. B. Chaudhari, A. Anand, S. D. Rajput, R. D. Kulkarni, **V. V. Gite\***, Synthesis, characterization and application of azadirachtaindica juss (neem oil) fatty amides (AIJFA) based polyurethanes coatings: A renewable novel approach, *Progress in Organic Coatings*, **2013**, 76, 1779-1785, **Imp. Fac. 4.469**.
- 16 **V. V. Gite\***, A. B Chaudhari, R. D. Kulkarni, D. G Hundiware, Renewable source based polyurethane coatings by using mono glycerides of vegetable oils and its modification by nano TiO<sub>2</sub>, *Pigment and Resin Technology*, **2013**, 42, 353-361, **Imp. Fac. 0.724**.
- 15 A.B. Chaudhari, **V.V. Gite\***, S. D. Rajput, P. P. Mahulikar, R.D. Kulkarni, Development of eco-friendly polyurethane coatings based on neem oil polyetheramide, *Industrial Crops and Products*, **2013**, 50, 550- 556, **Imp. Fac. 4.244**.
- 14 A. Ahamad, **V. V. Gite\***, C. B. Patil, D. G. Hundiware, Evaluation of the synergistic effect of layered double hydroxides with micro and nano CaCO<sub>3</sub> on the thermal stability of PVC composites, *Journal of Thermoplastic Composite Material*, **2013**, 26, 1249-1259, **Imp. Fac. 1.529**.



- 13 P. D. Meshram, R. G. Puri, A. L. Patil, **V. V. Gite**, Synthesis and characterization of modified cottonseed oil based polyesteramide for coating applications, *Progress in Organic Coatings*, **2013**, 76, 1144-1150, **Imp. Fac. 4.469**.
- 12 A.B. Chaudhari, P.D. Tatiya, R.K. Hedao, R.D. Kulkarni, **V.V. Gite\***, Polyurethane prepared from neem oil polyesteramides for self-healing anticorrosive coatings, *Industrial and Engineering Chemistry Research*, **2013**, 52, 10189-10197, **Imp. Fac. 3.573**.
- 11 A. V. Bagle, R. S. Jadhav, **V. V. Gite**, D. G. Hundiware, P. P. Mahulikar, Controlled release study of phenol formaldehyde microcapsules containing neem oil as an insecticide *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2013**, 62, 421-425, **Imp. Fac. 1.982**.
- 10 R. K. Hedao, P. P. Mahulikar, D. G. Hundiware, **V. V. Gite\***, Synthesis & characterization of resorcinol-based cross linked phenol formaldehyde microcapsules for encapsulation of pendimethalin, *Polymer Plastics Technology Engineering*, **2013**, 52, 243-249, **Imp. Fac. 1.655**.
- 9 P. D. Tatiya, P. P. Mahulikar, R. K. Hedao, **V. V. Gite\***, Novel polyurea microcapsules using dendritic functional monomer: synthesis, characterization and its use in self-healing and anticorrosive polyurethane coatings, *Industrial and Engineering Chemistry Research*, **2013**, 52, 1562-1570, **Imp. Fac. 3.573**.
- 8 P. D. Meshram, R. G. Puri, A. L. Patil, **V. V. Gite**, High performance moisture cured poly (ether-urethane) amide coatings based on renewable resource (cottonseed oil), *Journal of Coating Technology and Research*, **2013**, 10, 331-334, **Imp. Fac. 1.815**.
- 7 A. Anand, R.D.Kulkarni, **V. V. Gite\***, Preparation and properties of eco-friendly two pack PU coatings based on renewable source (sorbitol) and its property improvement by nano ZnO, *Progress in Organic Coatings*, **2012**, 74, 764-767, **Imp. Fac. 4.469**.
- 6 A. Ahamad, A. B. Chaudhari, C. B. Patil, P. P. Mahulikar, D. G. Hundiware, **V. V. Gite\***, Preparation and characterization of nanocomposites of PP with nano  $\text{Ca}_3(\text{PO}_4)_2$ , *Polymer Plastics Technology Engineering*, 2012, 51, 786-790, **Imp. Fac. 1.655**.
- 5 A. Ahamad, C. B. Patil, P. P. Mahulikar, D. G. Hundiware, **V. V. Gite\***, Studies on the flame retardant, mechanical and thermal properties of ternary magnesium hydroxide/ clay/EVA nanocomposites, *Journal of Elastomers and Plastics*, **2012**, 44, 251-261, **Imp. Fac. 1.20**.
- 4 **V.V. Gite**, P.P. Mahulikar, D.G. Hundiware, Preparation and properties of polyurethane coatings based on acrylic polyols and trimer of isophorone diisocyanate, *Progress in Organic Coatings*, **2010**, 68, 307-312, **Imp. Fac. 4.469**.
- 3 **V. V. Gite**, R. D. Kulkarni, D. G. Hundiware, U. R. Kapadi, Synthesis and characterization of pu coatings based on trimer of isophorone diisocyanate (IPDI) and monoglycerides of oils, *Surface Coatings International Part B: Coatings Transactions*, **2006**, 89, 99-102, **Imp. Fac. 0.19**.
- 2 **V. V. Gite**, P. P. Mahulikar, D. G. Hundiware, U. R. Kapadi, Polyurethane coatings using trimer of isophorone diisocyanate, *Journal of Scientific and Industrial Research*, **2004**, 63, 348-354, **Imp. Fac. 0.735**.
- 1 RP Patil, VV Gite, VL Maheshwari, RM Kothari, Improvement in the yield and quality of soya bean oil through an integrated biotech approach, *Indian Journal of Chemical Technology*, **2003**, 10, 470-476, **Imp. Fac. 0.614**.

## Scientific articles

- 6 **V. V. Gite**, P. D Tatiya, Increasing dispersion in polypropylene/natural clay nanocomposites, *Soc. Plastics Engg., Plastics Res.*, **2014**, (10.2417/spepro.005532)
- 5 Rahul K. Hedao, Pramod P. Mahulikar, **Vikas V. Gite\***, Synthesis, Characterization and Comparison of Polyurethane, Polyurea and Phenol Formaldehyde Microcapsules for Release Rate of Pendimethalin, *SRTMU's Research Journal of Science*, **2012**, 1(2), 67 - 86
- 4 **V. V. Gite**, S. D. Rajput, O. S. Yemul, **2012**, Advanced in polyurethane coating technologies *Chemical Weekly*, Aug., 201-206.

- 3 **V. V. Gite**, J. P. Kulkarni, (Mrs.) R. Krishnamurthy, "Importance of forensic science in latest techno crime scenario, *Science and Culture*, Nov-Dec. **2007**, 332-338.
- 2 **V. V. Gite**, R D Kulkarni, D G Hundiware, U R Kapadi, Additives for solvent-borne, waterborne & specialty purpose coatings, *Paintindia*, **2005**, 63-70.
- 1 **V. V. Gite**, U. R. Kapadi, D. G. Hundiware, Polyurethane coatings: an overview, *Paintindia*, Sept. **2003**, 47-58.

### **Selected presentations in conferences:**

#### **Invited talks - International Conferences**

##### **Outside India**

- 52 **V. V. Gite**, Encapsulation of self-healing and anticorrosive agents to convert renewable resource (vegetable oil) based polyurethane into smart anticorrosive coatings, APA International Conference on Advanced Polymers, Biomaterials, Bioengineering and Nano Drug Delivery, at Flic En Flac, Mauritius during 5-7th Sept., 2016.

##### **Within India**

- 51 **V. V. Gite**, Polymer Nano-composite of LLDPE and Waste Egg Shell Biomaterial Based Hydroxyapatite Decorated by Carbon Nano-tubes and Graphene Nano-sheets International Conference on Advances in Polymeric Materials & Human Healthcare (APA-STERMI 2019) Goa from 16-18 October 2019.
- 50 **V. V. Gite**, Vegetable Oil as a Renewable Source for Preparation of Multifunctional Polyurethane Coatings, International Conference on Advances in Chemical Sciences, IC-ACS 2018, Dept. of Chemistry, Shivaji University, Kolhapur, MS, India, during 1-3rd Feb., 2018.
- 49 **V. V. Gite**, Multifunctional Polyurethane Coatings from Vegetable Oils as a Renewable Source: A Current Trend, International conference on Polytech-2017, Bharti Vidyapith, Pune, MS, India, during 19-20th December 2017
- 48 **V. V. Gite**, Hyperbranched Polyester as a Processing aid for the Preparation of PP/Wood Flour Bio-composites, International conference on Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Applications (ICM2016), Mahatma Gandhi University, Kottayam, Kerala during 11-14th May, 2016
- 47 **V. V. Gite**, Vegetable Oils as a Renewable Source to Substitute Petroleum Based Feed Stock in the Preparation of Polymeric Resins and PU coatings, International conference "Innovation in Energy, Polymer and Environment Sciences - 2014 at Satara, India on 10 – 12<sup>th</sup> Jan., 2014.
- 46 **V. V. Gite**, "Vegetable Oils as Potential Source for Preparation of Polymeric Anticorrosive Coatings", International conference on Nano-Bio-Polymer-Pharmaceutical Technologies 2013, Organized by SRTM University, Nanded, India during 13-14<sup>th</sup> Jan., 2013.
- 45 **V. V. Gite**, R. K. Hedaoo, P. P. Mahulikar, D. G. Hundiware, "Studies on the Controlled Release Formulation of Pesticide Based on Polyurea Microencapsulation", International Conference on Nano Composites (ICNC 2011), Kottayam, India during 7-9<sup>th</sup> January, 2011.

#### **Invited talks - National Conferences / Workshops / Seminars**

- 43 Environment Friendly Polymeric Materials From Renewable Sources, Recent Trends and Innovations in Chemical Sciences – 2020 (RTIC-2020) Organized by D D N Bhole College, Bhusawal, Dist.-Jalgaon on 3rd January, 2020
- 42 Smart Self-healing Organic Coatings Based Environmental Friendly Materials, 11<sup>th</sup> National Conference on Solid State Chemistry & Allied Areas (NCSCA-2019) organized by ISCAS, Jammu and Porwal College, Kamptee, Nagpur, India during 20-21st Dec., 2019
- 41 IPR: Solution to Challenges in front of Indian Students, in two days workshop on IPR and Patenting Awareness of Invention and Innovation (WIPAI-2019), by Godavari College of Engineering, Jalgaon organized during 27-28th Nov., 2019.
- 40 Intellectual Property Rights, One Week Workshop on Materials Characterization and Instrumentation Techniques, organized by University Institute of Chemical Technology, KBCNMU, Jalgaon, during 15-20<sup>th</sup> July, 2019

- 39 Melt Compounding and Characterization, One Week Workshop on Materials Characterization and Instrumentation Techniques, organized by University Institute of Chemical Technology, KBCNMU, Jalgaon, during 15-20<sup>th</sup> July, 2019
- 38 Write the research articles and register the proposal for patent, in One Day Seminar on Intellectual Property Rights, organized by PG College of Science and Technology Research, Jalgaon on 2nd April, 2019.
- 37 Polymers from Renewable Sources for Composites and Coatings: A Green Eco-friendly Approach, Modern Trends in Green Chemistry Medicinal Chemistry and Environmental Science, organized by Arts, Commerce, and Science College, Nashik, India during 13 & 14<sup>th</sup> Feb., 2019
- 36 Green Nano particles and polymers for Applications in Polymer Composites, One day National Conference on Green Synthesis of Nanomaterials and Their Applications, organized by GTP College, Nandurbar, Maharashtra, on 12<sup>th</sup> Feb., 2019.
- 35 Simple Solutions to Green House Gas Emission & Global Warming, One day Workshop on Global Warming, organized by School of Environmental Sciences, KBCNMU, Jalgaon during 25<sup>th</sup> Jan., 2019
- 34 Importance of Students Start-ups and Incubation in the Present Scenario, Students Workshop organized by Ukatarsadiya University, Bardoli, Gujrat during 18<sup>th</sup> Jan., 2019
- 33 Intellectual Property Rights, Students Workshop organized by Ukatarsadiya University, Bardoli, Gujrat during 18<sup>th</sup> Jan., 2019
- 32 Vegetable oil:- A potential feedstock for polymeric resins and their applications for normal and smart coatings, in National Conference on Recent Advances in Material Sciences, organized by Dept. of Chemistry, MS University, Baroda, Gujrat, India during 23 & 24<sup>th</sup> Nov., 2018
- 31 Vegetable Oil based Self-healing and Anticorrosive Polyurethane Coatings, Seventh RAPT 2018, University Institute of Chemical Technology, KBCNMU, Jalgaon, MS, India, during 16-17<sup>th</sup> February-2018
- 30 Environmental friendly Self-healing Polyurethane Coatings Based on Vegetable Oil as a Renewable Resource, Manchar College, University of Pune, Manchar, MS, India, during 30-31<sup>st</sup> Jan., 2018
- 29 Anticorrosive Self-healing Coatings Based on Vegetable Oil as a Renewable Resource, Recent Advances in Chemical Sciences, Technology & Environment (RACSTE-2017), University Institute of Chemical Technology, KBCNMU, Jalgaon, 30-31<sup>st</sup> January, 2017
- 28 **V. V. Gite**, Self-healing renewable resource (vegetable oil) based polyurethane anticorrosive coatings, Recent Advances in Chemical and Environmental Sciences (RACES-2016), organized by NM College, Jalgaon 8<sup>th</sup> December, 2016
- 27 Polymer Chemistry future and prospective, Chemical Society, Arts, Science and Commerce College, Amaravati, 15<sup>th</sup> Spet., 2015
- 26 Renewable source based resins and their applications for preparation of primer coatings, The Polymer Chemistry for Mankind, Government College of Arts & Science, Aurangabad, 27<sup>th</sup> Dec., 2013

### **Presentations - international conferences**

#### **Outside India**

- 25 **V. V. Gite**, Soo Yeon Choi, Jungju Ryu, Hoik Lee, Jaehyung Ko, Jeong wook Lee, Bowon Yoo, Daewon Sohn, Multifunctional bio-composite applications using different shape poly(dopamine) nano particles, Scientific Colloquium: Knowledge Exchange with International Students, organized by Pinoy Iskolars sa Korea (PIKO), Phillipinos at Dongguk University, Seoul South Korea, 20<sup>th</sup> Nov., 2014.
- 24 **V. V. Gite**, Ravindra J. Marathe, P. P. Mahulikar, Daewon Sohn, Encapsulation of Corrosion Inhibitors by Urea Formaldehyde (UF) Microcapsules for Enhancing the Anticorrosive Property of Acrylic Based PU Smart Coatings, Korean Chemical Society, held at Kimdaejung Convention Center, Gwangju, South Korea, 15-17<sup>th</sup> Oct., 2014.
- 23 **V. V. Gite**, Soo Yeon Choi, Jungju Ryu, Hoik Lee, Jaehyung Ko, Jeong wook Lee, Bowon Yoo, Daewon Sohn, Poly(dopamine) nano particles of different shapes and sizes for multifunctional

bio-composite applications, Polymer Society of Korea, held at Jeju, South Korea, 6-8<sup>th</sup> Oct., 2014.

- 22 Abhijeet Anand, **V. V. Gite**, R. D. Kulkarni, "Preparation and Properties of Eco-Friendly Two Pack PU Coatings Based on Renewable Source (Sorbitol) and Its Property Improvement by Nano ZnO", International conference on Coatings Science International (COSI-2011), Noordwijk, The Netherlands during 24-28<sup>th</sup> June, 2011.
- 21 A. B. Chaudhari, **V. V. Gite**, R. D. Kulkarni, "Synthesis of Renewable Source (Vegetable Oils) Based Polyurethanes Resins for Industrial Coating", International conference on Coatings Science International (COSI-2011), Noordwijk, The Netherlands during 24-28<sup>th</sup> June, 2011.

#### **Within India**

- 20 **V. V. Gite**, S. Y. Choi, J. Ryu, H. Lee, J. Ko, J. W. Lee, B. Yoo, D. Sohn, Different shape and size nano particles of poly(dopamine) for multifunctional bio-composite applications, an International Conference "Innovations in Chemical Research and Applied Chemical Sciences (ICRACS- 2015), held at Ulhasnagar, India, 12-13<sup>th</sup> January, 2015.
- 19 **V. V. Gite**, S. D. Rajput, O. S. Yemul, Renewable sources based polymeric resins from algae oil and its applications for preparation of bio-composites using natural fibers, International Conference on Emerging Trends in Oleo-chemicals & Lipids Expo – 2013 (OLEO-2013), Held at IICT Hyderabad, India during 8-10<sup>th</sup> August 2013.
- 18 **V. V. Gite**, "Neem Oil: Renewable Source as a Substitute for Petroleum Based Feed Stock in Preparation of Polymeric Resins", FAPS-MACRO-2013, Organized by Federation of Asian Polymer Societies and Department of Inorganic/Physical Chemistry, Indian Institute of Science, Bangalore, India during 15-18<sup>th</sup> May, 2013.
- 17 **V. V. Gite**, "Polymeric Coatings from Vegetable Oils as Renewable Sources", International conference on Advances in Polymeric Materials & Nanotechnology (Polytech 2012), Organized by SPS, Pune, India and Bharati Vidyapeeth University, Pune, during 15-17<sup>th</sup> Dec., 2012.
- 16 A. Ahamad, A. B. Chaudhari, C. B. Patil, **V.V. Gite**, P. P. Mahulikar and D. G. Hundiware, "Preparation and Characterization of Polypropylene Nano-composites Filled with Nano Calcium Phosphate", Polymer Science and Engineering (PSE 2010), Chandigarh, India, 26-27<sup>th</sup> Nov., 2010.

#### **Presentations in National Conferences**

- 16 Chandrashekhar K. Patil, Vikas V. Gite, Synthesis of Polymeric Resins from Agricultural Resource (Cotton Seed Oil): Application in PU Coatings, 1<sup>st</sup> National Conference, Advances in Chemical Sciences-2017 (ACS-2017), School of Chemical Sciences, KBCNMU, Jalgaon, 4<sup>th</sup> March, 2017
- 15 **V. V. Gite**, Vegetable oil as a renewable source for polyurethane smart coatings, Advancement in Polymer Science and Technology, organized by Asian Polymer Association and Saurashtra University, Rajkot, Gujrat, India, 29-31 Oct., 2015
- 14 **V. V. Gite**, S. Y. Choi, J. Ryu, H. Lee, J. Ko, J. W. Lee, H. Jirimali, N. Khairnar, D. Sohn, Different shape and size nano particles of poly(dopamine) for multifunctional bio-composite applications, Frontiers and Advancements in Chemistry and Technology (FACT-2015) Symposium organized by Royal Society of Chemistry (RSC) west India section and School of Chemical Sciences, KBCNMU, Jalgaon, India, 11-12<sup>th</sup>, Dec. 2015
- 13 **V. V. Gite**, C. K. Patil, P. P. Mahulikar, D. Sohn, Increase in biobased content of polyurethanes (PU) coatings prepared from vegetable oil and their dicarboxylic acids, Recent Advances in Chemical Sciences, Tech. & Environment (RACSTE-2015), UICT, KBCNMU, Jalgaon, India
- 12 **V. V. Gite**, "Effect of synergism between LDH and nano zinc phosphate on the Flammability and Mechanical Properties of Polypropylene", First national conference on Innovations in Chemistry-Laboratory to Society (ICLS-2013), organized by the School of Chemical Sciences, KBCNMU, Jalgaon, on 11<sup>th</sup> March, 2013.
- 11 **V. V. Gite**, Pyus. D. Tatiya, Pramod P. Mahulikar, "Preparation of PP/pristine Clay Nanocomposite: Exfoliated clay structured along with Improved Processability", University level research festival "Avishkar-2012" organized by KBCNMU, Jalgaon, on 28<sup>th</sup> Dec., 2012
- 10 **V.V. Gite**, Polymer coatings from renewable source: Vegetable Oils, National Symposium on

Polymers and Coatings (NSPC – 2012), organized by CSIR Indian Institute of Chemical Technology, Hyderabad during 7-8<sup>th</sup> Sep., 2012.

- 9 **V.V. Gite**, “Development of Polyurethane Coatings Based on Acrylic Copolymer & Trimer of IPDI by Incorporation of Modified Nano-MMT”, National conference on Nanomaterials, Industrial Polymers and Eco-friendly Coatings-Perspectives and Challenges (NIPEC-2012), jointly organized by the School of Chemical Sciences and University Institute of Chemical Technology, KBCNMU, Jalgaon, on 18<sup>th</sup> Feb., 2012.
- 8 **V.V. Gite**, “Study of Anticorrosive Properties of Polyesteramide Based Self-Healing PU Coatings by Using Microcapsules Synthesized from Dendritic PAMAM”, National conference on Nanomaterials, Industrial Polymers and Eco-friendly Coatings-Perspectives and Challenges (NIPEC-2012), jointly organized by the School of Chemical Sciences and University Institute of Chemical Technology, KBCNMU, Jalgaon, on 18<sup>th</sup> Feb., 2012.
- 7 A. B. Chaudhari, D. G. Hundiware, R. D. Kulkarni, **V.V. Gite**, “Synthesis of Renewable Monoglycerides Based Two Pack Polyurethanes For Insulation Coating”, Recent Advances in Polymer Technology (RAPT 2011), Jalgaon on 15<sup>th</sup> January, 2011.
- 6 **V. V. Gite**, C. B. Patil, Y. K. Rajput, R. I. Girase, V. A. Pawar, D. G. Hundiware, “Preparation and Properties of Polymer Blends and Their Nano Composites”, National conference on Recent Advances in Polymer Technology (RAPT-2009), jointly organized by School of Chemical Sciences & University Institute of Chemical Technology, KBCNMU, Jalgaon, India on 28 and 29<sup>th</sup> Dec., 2009.
- 5 **V. V. Gite**, P. P. Mahulikar, U. R. Kapadi, D. G. Hundiware, “Polyurethane Coatings from Renewable Source Based Polyols”, National Conference on Futuristic Polymer Materials, Dept. of Chem., R. V. College of Engg., Bangalore on 26-27<sup>th</sup> Sept., 2008.
- 4 C. B. Patil, **V. V. Gite**, P. P. Mahulikar, D. G. Hundiware, “Preparation and Characterization of Nanocomposites of LLDPE with Nano CaCO<sub>3</sub>”, National Conference on Futuristic Polymer Materials, Dept. of Chem., R. V. College of Engg., Bangalore on 26-27<sup>th</sup> Sept., 2008.
- 3 **V. V. Gite**, D. G. Hundiware, U. R. Kapadi, “Effect of NCO/OH Ratio and Hydroxyl Content of Polyol Part on Polyurethane Coatings”, A Theme Symposium on Novel Polymeric Materials, MRSI, BARC, Mumbai on Feb., 2003.
- 2 **V. V. Gite**, U. R. Kapadi, D. G. Hundiware, “Synthesis of Trimer of Isophorone Diisocyanate Useful for Polyurethane”, presented in 20<sup>th</sup> conference of Indian Council of Chemist held at Mysore, Dec., 2001.
- 1 R. N. Patil, **V. V. Gite**, U. R. Kapadi, D. G. Hundiware, Preparation of Polyurethane Dispersions Based on Polyester Polyols in 20<sup>th</sup> conference of Indian Council of Chemist held at Mysore, Dec., 2001.

### **Popular lectures delivered**

- 13 Writing and Publication of Research Paper, in an One week faculty development program on - Research Methodology, Organized by - Amar Sewa Mandal's Kamla Nehru Mahavidyalaya on 30<sup>th</sup> April, 2021
- 12 Polymer - Future and Prospective for Engineering Students, Workshop on Applied Science and Humanities, organized by Shri Vile Parle Kelavani Mandal's Institute of Technology Dhule on 12<sup>th</sup> July, 2021
- 11 How to file a patent? A One Day Workshop on “Intellectual property rights”, organized by M. J. College, Jalgaon on 28<sup>th</sup> April, 2021
- 10 How to file IPR? A One Day National Level Workshop on “Intellectual Property Rights” , Organized by P O Nahata College, Bhusawal, Maharashtra on 04<sup>th</sup> May, 2021
- 9 Challenges in IPR and Patent System, in Seminar on Challenges in Intellectual Rights and Patents System-2020 (CIPRPS-2020), organized by M. J. College, Jalgaon on 26<sup>th</sup> February, 2020.
- 8 IPR: An Opportunities to Indian Students, Z. B. Patil College, Dhule, District Dhule 28<sup>th</sup> Feb., 2019
- 7 Opportunities to the Indian students, A.C. S College, Dharangaon, Dist. Jalgaon during 14<sup>th</sup>

- September, 2019.
- 6 Polymer Chemistry-I Mechanisms of Polymerisation, Refresher Course for Chemistry, Organized by Goa University, Goa on 5<sup>th</sup> April, 2011
  - 5 Polymer Chemistry II Physical Properties of Polymers, Refresher Course for Chemistry, Organized by Goa University, Goa on 5<sup>th</sup> April, 2011
  - 4 Recent Trends in Plastic Waste Management Technology, at Government Polytechnique, Nashik, 18th Sept., 2010
  - 3 Rubber Recycling and Waste Management Technology, at Government Polytechnique, Nashik 18th Sept., 2010
  - 2 Polymer Recycling, Refresher Course for Chemistry, Organized by Goa University, Goa 15<sup>th</sup> April, 2009.
  - 1 Introduction to Polymer Chemistry, Refresher Course for Chemistry, Organized by Goa University, Goa 14<sup>th</sup> April, 2009.

#### Consultancy:-

Providing testing and analysis supports to various polymer industries nearby to the KBCNMU, Jalgaon.

#### Consultancy projects

Title of Consultancy Project	Duration	Amount Sanctioned (₹ - Indian Rupees)	Funding Agency
Microencapsulation based perfume formulation	12 months (Jan., 2019 – Dec., 2019)	₹ 10.00 Lakh	US based Industry
Polymer Additives	18 months (27 <sup>th</sup> May, 2017- 26 <sup>th</sup> Nov., 2018)	₹ 2.00 Lakh	Industry

#### Research project ongoing

Research project ongoing				
Name of Investigator	Title of Consultancy / Project	Amount Sanctioned (₹ - Indian Rupees)		Funding Agency
Dr. Vikas V. Gite	Value added products from plastic waste	April, 2020 – March 2022	₹ 5 Lakh	Rajiv Gandhi Science and Tech. Commission, Mumbai

#### Research project completed

Name of Investigator	Title of Consultancy / Project	Amount Sanctioned (₹ - Indian Rupees)		Funding Agency
Prof. P. P. Mahulikar (PI) & Dr. Vikas V. Gite (Co. PI)	Functional coatings: Smart self-healing materials for formulating paints & coatings	June 2016- March 2017	₹ 30 Lakh	RUSA, Govt. of Maharashtra, India
Prof. R. D. Kulkarni (PI), Dr. Vikas V. Gite (Co. PI)	Eco-friendly two pack polyurethanes based on renewable vegetable oils and carbohydrates	2010-2013	₹ 8.36 Lakh	University Grants Commission (UGC), New Delhi, India
Dr. Vikas V Gite, (PI), Prof. R. D. Kulkarni (Co. PI)	Design and development of eco-friendly 1K polyurethane nano-composite coating system for high performance application	2013-2015	₹ 10.9 Lakh	University Grants Commission (UGC), New Delhi, India

## Life Membership of Professional Organizations

- Society for Polymer Science (SPS), India
- Asian Polymer Association (APA), New Delhi
- Indian Council of Chemist (ICC), Agra, India
- Solid State and Allied Chemicals, Jammu, India.
- Indian Academy of Forensic Science, India
- Society for Materials Chemistry (SMC), India
- Association of Chemistry Teachers (ACT), KBCNMU, Jalgaon, India

## Reviewer for Journals

Reviewing research publication for many international and national journals in the field of polymer coatings and composites (selected journals)

- ✧ **RSC Publications:-** Polymer Chemistry, RSC Advances, Nanoscale, etc.
- ✧ **ACS Publications:-** Industrial Engineering and Chemistry Research, ACS Sustainable Chemistry & Engineering, ACS Applied Materials & Interfaces, ACS Applied Bio Materials, Journal: Environmental Science & Technology, etc.
- ✧ **Elsevier Publications:-** Progress in Organic Coatings, Surface Coatings Technology, Industrial Crops and Products, Materials Today Proceeding, Materials Today Communications, Journal of Molecular Liquids, Polymer Testing, Colloids and Surfaces A: Physicochemical and Engineering Aspects, International Journal of Biological Macromolecules, Applied Surface Science, Journal of the Taiwan Institute of Chemical Engineers, International Journal of Biological Macromolecules, Bioresource Technology, etc.
- ✧ **Springer Publications:-** Journal of Polymer and Environment, Journal of Coating Technology and Research, Journal of Materials Engineering and Performance, Fibers and Polymers, Chemical Papers, Korean Journal of Chemical Engineering, etc.
- ✧ **Wiley:-** Chemistry Select, Journal of Applied Polymer Science, Polymer International, Polymer Composites, Journal of Surfactants and Detergents
- ✧ **Taylor and Francis Publications:-** Polymer Plastic Technology and Engineering, Journal of the Air & Waste Management Association, Journal of Microencapsulation, etc.
- ✧ **Emerald Publications** – Pigments and Resins Technology
- ✧ **Chinese Academy of Sciences:-** Nuclear Science and Techniques
- ✧ **Informa Healthcare:-** Journal of Microencapsulation

## Visits abroad

### 1. Nepal (Jan 1994)

It was cultural tour organized by our school. The objective of the tour was to visit cultural cities and places of Northern part of India and Nepal. During the tour, we could visit Janakpuri and Kathamandu in Nepal. This was first opportunity to visit abroad and study different cultures, people, geographical locations, etc.

### 2. Netherland (26<sup>th</sup> June- 02<sup>nd</sup> July, 2011)

Attended an international conference entitled Coating Science International -2011 (COSI-2011) organized by Eindhoven University of Technology, Netherland. The event provided ample opportunity to meet with various conference delegates, scientists, engineers, researchers and industrialists, and thus stimulated future technological developments to network in a friendly and supportive environment.

### 3. South Korea (15<sup>th</sup> April 2014- 14<sup>th</sup> April 2015)

Worked as a Research Professor (Postdoctoral work) at Department of Chemistry, Natural Science College, Hanyang University, Seoul, South Korea with Prof. Daewon Sohn. The tenure was counted as an excellent experience to know working in an international laboratory, different environment, independent handling of advanced equipment, designing to execution problems in limited period, etc. The tenure was also utilized to extend the work in the

field of anticorrosion coatings and developed self-healing smart materials based on natural sources.

#### 4. Mauritius (4 to 07<sup>th</sup> Sept., 2016)

Attended an international conference entitled “**APA International Conference on Advanced Polymers, Biomaterials, Bioengineering and Nano Drug Deliver**” organized by Asian Polymer Association (APA), Centre for Biomedical and Biomaterials Research (CBBR), University of Mauritius and Indo-Italian Forum (IIF) for Biomaterials & Tissue Engineering. The conference given me an opportunity to enhance the knowledge in interdisciplinary manner specially bioengineering materials.

Received a prestigious **APA-Young Scientist Award-2016**, of Asian Polymer Association with the hands of Dr. Sridhar, Executive of Reddys Laboratory in the conference.

#### 5. Cyprus (7 to 13<sup>th</sup> April, 2019)

Visited Frederick University, Nicosia, Cyprus through European Visiting Program (EVP) of Erasmus plus project of European Union. Main objective of the program was to enhance quality of higher education in Indian universities with the help of selected European Universities by starting Capacity Building Centres in Indian Universities. It was an occasion to interact with representative of European Union (EU) through the program. I visited various departments /centers and interacted with professors from different disciplines, learned official atomized processes, systematic ways of working and many more things.

#### 6. Japan (Virtual - 1 to 21<sup>st</sup> Oct., 2020)

Received chance to get virtual training entitled ‘JPO/IPR Online Training Course for IP Trainers (IPTR)’ from 1 to 21<sup>st</sup> Oct., 2020 sponsored by Japan Institute for Promoting Invention and Innovation and The Association for Overseas Technical Cooperation and Sustainable Partnership, Tokyo, Japan. The program was sponsored to get training in presence, however due to Covid-19 pandemic, it was switch to virtual mode.

### Selected Professional Trainings Received

Year	Nature of Training	Duration	Organization training
2020	Introduction to Polymer Science	Sept., to Nov., 2020	Online course of NPTEL by Prof. Dibakar Dhara, Dept. of Chemistry, IIT Kharagpur
2020	JPO/IPR Online Training Course for IP Trainers (IPTR)	1-21 <sup>st</sup> Oct., 2020	Japan Patent Office and Asia-Pacific Industry Property Center, Japan
2020	Google Classroom Training Program	14 <sup>th</sup> Feb., 2020	School of Chemical Sciences, KBCNMU, Jalgaon
2019	One-week Short Term Training Program – Research Methodology (Chemistry)	17 - 23 <sup>rd</sup> Dec., 2019	Academic Staff College, University of Pune, Pune & KBC North Maharashtra University, Jalgaon
2019	Teaching learning and Evaluation for Faculty Members of HEIs	5-9 Aug., 2019	Central University of Ajmer, Ajmer, Rajasthan
2019	Training Program for IPR Cells in Universities of Maharashtra	11-12 <sup>th</sup> June, 2019	RGSTC, Mumbai and Technology Information Forecasting and Accessment Council (TIFAC), New Delhi
2019	One Day workshop on SWAYAM MOOCs and e-Content Development	21 <sup>st</sup> May 2019	Knowledge Resource Center & Internal Quality Assurance Cell, KBCNMU, Jalgaon
2019	One week training on Higher Education	8-12 <sup>th</sup> April 2019	Frederick University, Nicosia, Cyprus under aegis of CABICIN – Establishment of Capacity Building Centres As a



			Sustainable Development of Indian HEI project funded through Erasmus Key Action 2 of European Union
2019	Two Days workshop on NAAC Awareness Program	17-18 <sup>th</sup> Jan., 2019	KBCNMU, Jalgaon and NAAC, Bangalore
2018	Leadership Development: Creating Direction, Setting Goals, Defining Tasks	8-9 <sup>th</sup> Oct., 2018	NMU, Jalgaon under aegis CABCI – Establishment of Capacity Building Centres As a Sustainable Development of Indian HEI project funded through Erasmus Key Action 2 of European Union
	Personal Development and Intellectual Honesty	17-18 <sup>th</sup> Sep, 2018	
	Assessment and Grading	29-30 <sup>th</sup> Aug., 2018	
	Diversity Management in the Work Place in the Context of HEI	19-20 <sup>th</sup> July 2018	
	Three days workshop on National IPR Policy	26-28 <sup>th</sup> June, 2018	Gujrat Science City, Ahamadabad, by DST, New Delhi and GUJCOST, Gandhinagar
2018	Promotion of research and innovation in Science	23 <sup>rd</sup> Feb., 2018	RUSA, Govt. of Maharashtra and RTM University, Nagpur
2018	Two Days Workshop for Subject Experts in Marathi Encyclopedia of Nano Technology	9-10 <sup>th</sup> Jan., 2018	Marathi Encyclopedia and KBCNMU, Jalgaon
2017	Refresher Course in Chemistry	25 <sup>th</sup> Sep.-14 <sup>th</sup> Oct., 2017	HRDC, Punjabi University, Patiala, Punjab
2017	Urkund-Anti plagiarism software	7 <sup>th</sup> July 2017	Knowledge Resource Centre and IQUAC, North Maharashtra University, Jalgaon
2017	Nanotechnology for Marathi	17-18 <sup>th</sup> Feb., 2017	Maharashtra State Marathi Encyclopedia Corporation, Mumbai and SRTM University, Nanded
2016	Patent Filing, Search & Drafting	03-07 <sup>th</sup> Oct., 2016	Rajiv Gandhi National Institute of Intellectual Property Management (RGNIPM), Nagpur
2015	Spoken Tutorial Project	4 <sup>th</sup> Sep., 2015	North Maharashtra University, Jalgaon and funded by IIT, Mumbai through National Mission on Education Through ICT, MHRD, New Delhi
2016	Indian Patent and Filing Procedures	23 <sup>rd</sup> Aug., 2016	Rashtriya Uchatar Shiksha Abhiyan, Mumbai, RGNIPM, Nagpur & North Maharashtra University, Jalgaon
2015	Faculty Improvement for Research Science & Technology	18-24 <sup>th</sup> June, 2015	School of Chemical Sciences, North Maharashtra University, Jalgaon
2014	Be Compliant Workshop on Preparing your Lab. for Audit	16 & 17 <sup>th</sup> Dec., 2014	Agilent Technologies, New Delhi, India
2013	Workshop on Syllabus Framing in Chemistry	4 <sup>th</sup> Dec., 2013	SPDM ASC College, Shirpur, Dist Dhule
2012	Refresher Course in Chemistry	10-30 <sup>th</sup> May, 2012	Dept. of Chemistry, University of Pune, Pune and UGC Academic Staff College, University of Pune, Pune
2012	Project, Thesis and Paper Writing in Chemistry	9 <sup>th</sup> March, 2012	School of Chemical Sciences, North Maharashtra University, Jalgaon
2011	Next Two Decades of Chemical	23 <sup>rd</sup> Sept.,	Maharashtra Academy of Sciences &

	Sciences & Technology	2011	NCL, Pune
2009	General Orientation Programme	02-29 <sup>th</sup> Dec., 2009	Dept. of Adults & Continuing Edu. & Extension Services, NMU, Jalgaon & Academic Staff College, Uni. of Pune
2009	Recent Trends in Injection Moulding & Extrusion Tech.	25-28 <sup>th</sup> Nov., 2009	Central Institute of Plastics Engineering and Technology (CIPET), Aurangabad
2008	FEEL Teacher	01-3 <sup>rd</sup> Dec., 2008	Dept. of Learning and Development, AIM Insights, Mangalore
2008	Workshop on Patent Awareness	4 <sup>th</sup> Aug., 2008	North Maharashtra University, Jalgaon
2005	Analytical Protocol for Trace Analysis of Forensic Samples	23-25 <sup>th</sup> Nov., 2005	Central Forensic Science Laboratory, Hyderabad and BARC, Mumbai
2004	Entrepreneurship Awareness Camp	19-22 <sup>nd</sup> Mar., 2004	MITCON & UICT, NMU, Jalgaon
2004	Intellectual Property Rights with Special Reference to Patents	9 <sup>th</sup> Jan., 2004	North Maharashtra University, Jalgaon
2001	Gas Chromatography	13 <sup>th</sup> Jan., 2001	North Maharashtra University, Jalgaon

## Contribution to University/School/Department

### Administrative work experience

Head- Department of Polymer Chemistry (Since 2018 working)

In charge Head- Department of Industrial Chemistry (Since 2019-21)

Worked as a coordinator for Training and Placement Cell of the School (2012-14)

Members of many committees of the school such as academic, purchase, examination, etc.

Members for organization of “Special Convocation ceremony 2013” & “Avishkar” of North Maharashtra University, Jalgaon.

Member of NAAC sub-committee, KBC North Maharashtra University, Jalgaon (2019-20).

**Board of Directors:-** Working as a Board of Directors to an Incubation centre of KBCNMU entitled as KBCNMU Centre for Innovation Incubation and Linkages (KCiiL)

**BOS:-** Worked as Board of Studies Member of KBCNMU, Jalgaon

1. Chemistry (Since 2013)

2. Interdisciplinary Sciences of Engineering Subjects (Since 2019)

**Support in Covid-19:-** Sanitizer was supplied to university to be used by officials and visitors during initial lockdowns period of Covid-19 pandemic because its availability was issue on those days.

**Member:-** Possessed working experience for various academic committees of the school and university.

- ✧ National Conference on Development and Analysis of Drugs (DAD-2008), held at N M. University, Jalgaon on 15<sup>th</sup> March, 2008.
- ✧ Avishkar 2011 (University level science expedition), North Maharashtra University, Jalgaon on 28 & 29<sup>th</sup> December, 2011.
- ✧ Team Manager, State Level Avishkar 2012-2013, University of Pune, Pune.
- ✧ IPR Cell of KBCNMU, Jalgaon

## **Experience in Organizing conferences/workshops/seminars**

**Coordinator:-** Folk Form of Communication, Vidnyan Yatra (Science Fair) during February 28 - March 05, 2003, as a part of Celebration of National Science Day / Week celebration.

### **Convener:-**

- ✧ National conference on “Nanomaterials, Industrial Polymers and Eco-friendly Coatings- Perspectives and Challenges (NIPEC-2012)”, jointly organized by the School of Chemical Sciences and University Institute of Chemical Technology, KBCNMU, Jalgaon, on 18<sup>th</sup> Feb., 2012.
- ✧ Celebrating year 2011 as an “International Year of Chemistry (IYC-2011)”, in the School of Chemical Sciences, KBCNMU, Jalgaon, on 26<sup>th</sup> Dec., 2011.

### **Organizing Secretary:-**

- ✧ National “e-Entrepreneurship Conclave”, jointly organized by the KBCNMU Centre for Innovation, Incubation and Linkages, KBCNMU, Jalgaon and Sandip University Foundation, Nashik, during 30-31<sup>st</sup> May 2020.

### **Treasurer:-**

- ✧ One day workshop on Laboratory and Industrial Safety and Hazards-2019, organized by School of Chemical Sciences, Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon, MS, India held on 13<sup>th</sup> March, 2019.
- ✧ International conference on “Recent Advances in Polymer Technology (RAPT-2009)”, jointly organized by School of Chemical Sciences & University Institute of Chemical Technology, KBCNMU, Jalgaon, India during 28 and 29<sup>th</sup> Dec., 2009.
- ✧ “International Conference on Global Opportunities for Latest Developments in Chemistry and Technology (Gold-CT-2014) during 6-8<sup>th</sup> February, 2014.

### **Committee member:-**

- ✧ Faculty Improvement for Research Science & Technology, organized by School of Chemical Sciences, KBCNMU, Jalgaon during 18-24<sup>th</sup> June, 2015
- ✧ National conference “Innovations in Chemistry- Laboratory to Society (ICLS-2013)” held at School of Chemical Sciences, KBCNMU, Jalgaon on 11 March 2013.
- ✧ National Conference on Development and Analysis of Drugs (DAD-2008), held at N M. University, Jalgaon on 15<sup>th</sup> March, 2008.
- ✧ Avishkar 2011 (University level science expedition), KBCNMU, Jalgaon on 28 & 29<sup>th</sup> Dec., 2011.
- ✧ Team Manager, State Level Avishkar 2012-2013, University of Pune, Pune.

### **Other activities done/going on**

Conducting study tours of M. Sc. II students to polymer industries notably

- ✧ Jain Irrigations Systems Ltd., Jalgaon, India
- ✧ GE Polymers, Bangalore, India
- ✧ Plastindia Foundation, New Delhi
- ✧ Reliance Industries, Mumbai, India
- ✧ Siddhart Carbochem Pvt. Ltd., Jalgaon, India.
- ✧ Jalgaon Packaging Pvt. Ltd., Jalgaon
- ✧ Supreme Industries, MIDC, Jalgaon

**Dr. Vikas V. Gite**