

CURRICULUM VITAE



Name **DR. SONAWANE GUNVANT HARI**

Father's Name SONAWANE HARI ZIPRU

Designation Assistant Professor and Vice Principal
KVP's Kisan Arts, Commerce and Science College,
Parola, Dist. Jalgaon

Permanent Address 99/A, Suyog Nagar, Wadibhokar Road, Deopur, Dhule-
424002 (M.S.), India

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Date of Birth 25th November 1972 (Age 49 Yrs)

Blood Group "B" +Ve

Educational Qualification

| Degree | Field of Specialization | University | Year of Passing | %ge of Marks | Class Obtained |
|-------------------------------------|-------------------------|---------------------------|-----------------|--------------|------------------------------|
| B.Sc. | Chemistry | Pune University | June, 1991 | 78.50 | First Class with Distinction |
| M.Sc. | Physical Chemistry | N.M.U. Jalgaon | June, 1993 | 70.50 | First Class with Distinction |
| B.Ed. | Science | N.M.U. Jalgaon | June, 1995 | 77.90 | First Class with Distinction |
| Ph.D.* | Chemistry | N.M.U. Jalgaon | April 2010 | -- | Awarded |
| Diploma in School Management | Education Management | Y.C.M.O. University Nasik | August 2011 | 75.00 | First Class with Distinction |

***Title of the Ph.D. Thesis** Adsorption kinetics and equilibrium studies for the removal of organic moieties (particularly dyes) by using low cost adsorbents.

Guide Dr. V. S. Shrivastava, M.Sc. Ph.D., Post Doc(S. America),
TWAS-UNESCO, Visiting Professor
Department of P. G. Research in Chemistry,
G.T.P. College, Nandurbar (M.S.)

Date of Ph.D. Award 29.04.2010

Teaching Experience 27 Years

| S.No. | Designation | Institution | Period | Experience |
|-------|---------------------|---|--------------------------|------------|
| 1. | Lecturer | M.G.T.S.M., Arts Commerce and Science College, Chopda, Dist. Jalgaon | 19.07.1993 to 31.05.1994 | 01 Year |
| 2. | Assistant Professor | KVP's Kisan Arts, Commerce and Science College, Parola, Dist. Jalgaon | Since 23.11.1994 | 24 Years |

Administrative Experience

- **Vice Principal**, K.V.P's Kisan Arts, Commerce and Science College, Parola, Dist. Jalgaon since 01.03.2012 to till date. **9 Yrs 5 Months**
- **Coordinator, NAAC Reaccreditation Second Cycle**, Kisan Arts Commerce and Science College, Parola. 1-3 December 2016.
- **Nodal Officer, B. Voc.**, K.V.P's Kisan Arts, Commerce and Science College, Parola, Dist. Jalgaon, From June 2014, **UGC Sanctioned Rs.185 Lacks.**
- **Head**, Department of Chemistry, K.V.P's Kisan Arts, Commerce and Science College, Parola, Dist. Jalgaon since 07.03.2005 to till date. **11 Yrs**
- **Member, Board of Studies in Chemistry**, North Maharashtra University, Jalgaon. (2010 to 2015).

- **Member, Faculty of Science**, North Maharashtra University, Jalgaon. (2010 to 2015).
- **Member, Local Management Committee**, Kisan Arts Commerce and Science College, Parola (2013 to 2017).
- **Member, College Development Committee**, Kisan Arts Commerce and Science College, Parola (2017 to 2022).
- **Member, Board of Studies in Chemistry**, KBC North Maharashtra University, Jalgaon. (2017 to 2022).
- **Member, 48(3)A of Examination Committee**, KBC North Maharashtra University, Jalgaon. (2017 to 2022).
- **Secretary, Association of Chemistry Teachers**, KBC North Maharashtra University, Jalgaon.

Research Experience **10 Years**

Research Papers **63** (Published 63, Accepted 0, Communicated 1)

Research Papers presented in **28**
Conferences

Book Chapters **04**

Number of research scholars supervised

- i. Ph. D. Awarded **08**
- ii. Ph. D. Ongoing **01**

Minor Research Project **3 (3-Completed, 0 Ongoing)**

As Principal Investigator

- “Detection Identification and Removal of Organic Compounds (Particularly Dyes) by using Chemically Modified low cost adsorbents” Period 2006-2008. Financial Assistance by UGC, WRO, Pune. Letter No. F-47-193/05 (WRO) Date 14 Sep 2006.Rs 30,000/-

- “A combined Effect of Ultrasound Cavitations on Adsorption Kinetics in Removal of Dyes Along with Bio-adsorbents.” Period 2010-2012. Financial Assistance by UGC, WRO, Pune. Letter No. F-47-1547/10 (WRO) Date 8 Oct 2010. Rs 95,000/-
- Intensification of degradation of organic dyes using sonochemical reactions understanding mechanism and kinetics, Financial Assistance by North Maharashtra University Jalgaon, Under Vice Chancellors Research Motivation Scheme, NMU/11A/VCRMS/budget-2014-15: Science 5:174:2015, 30/03/2015. Rs 70,000/-

Extra Curricular Activities NCC “B” and “C” Certificate Exam Passed

Awards and Honors 10

- **1st Rank** : T. Y. B.Sc. Chemistry (1990-91) in Jai Hind College, Dhule.
- **1st Rank** : M. Sc. Physical Chemistry (1993) in Jai Hind College, Dhule.
- **1st Prize** of Excellence in Science Exhibition of Akhil Bhartiya Marathi Vidnyan Parishad, 1994.
- **“Young Scientist Award-2007”**: By Indian Council of Chemist in 26th National Conference held at Dr. H. S. Gour University, Sagar (M.P.) during 26 to 28 Feb. 2008 for Best Research Paper.
- **1st Prize of Best Oral Research Paper Award** : International Level Conference on Green Chemistry and Environmental Pollution (GCEP-2010), held at S.S.V.P.S’s L.K. Dr P. R. Ghogrey Science College, Dhule (M.S.) 16-17 January 2010
- **3rd Prize of Best Oral Research Paper Award**: International Level Conference on Biodiversity and Environmental Crisis- Post, Present and Future (ICBEC-2011), S.S.V.P.S L.K. Dr P. R. Ghogrey Science College, Dhule (MS), 11 to 13 February 2011.
- **1st Prize of Best Oral Research Paper Award**: 5th National Conference on Recent Advances in Chemo and Bio Sciences (RACBS-2015) Jointly organized by M J College, Jalgaon and Post Graduate College of Science, Technology and Research, Jalgaon on 23-24 January 2015.
- **3rd Prize of Best Oral Research Paper Award**: International Level Conference on Innovations in Biological and Chemical Sciences (ICIBCS-2017), TVES Dhanaji Nana College, Faizpur, Dist- Jalgaon (MS), 21 to 22 December 2017.

- **Letter of Appreciation by Academic Council** by KBC NMU, Jalgaon for Implementation of CBCS, 25 February 2019.
- **3rd Prize of Best Oral Research Paper Award:** National Level Conference on New Dimensions in Chemistry and Chemistry Education and National Convection of Chemistry Teachers (NCCT-2019), Jointly Organized by Sant Gadge Baba Amravati University, Amravati and Association of Chemistry Teachers (ACT), TIFR Mumbai, for oral paper presentation 5 to 7 December 2019.
- **“KBCNMU Best Teacher Award-2017-18”:** University level Best Teacher Award by Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon from affiliated Colleges and Institutes for year 2017-18 declared on 10 March 2021.

Awards Received By the Research Students- *Mr. Vilas Kailas Mahajan*

- **1st Prize of Best Oral Research Paper Award:** 6th National Conference on Recent Advances in Chemo and Bio Sciences (RACBS-2016) Jointly organized by M J College, Jalgaon and Post Graduate College of Science, Technology and Research, Jalgaon on 23 January 2016.
- **1st Prize of Best Oral Research Paper Award:** UGC Sponsored National Conference on Chemical Synthesis of Nanomaterials and their Applications in Environment organized by Department of Chemistry G. T. Patil College, Nandurbar For paper entitled Photocatalytic Sonocatalytic and Sonophotocatalytic degradation of Aniline blue using ZnS nanocatalyst (P-63). on 8-9 February 2016.

Memberships

- Life Fellow, Indian Council of Chemists, Agra (India). (LF-897).
- Life Member, Asian Journal of Chemical and Environmental Research.
- Life Fellow, Society for Material Chemistry
- Life Member, Association of Chemistry Teachers, TIFR Mumbai (MN-2208).
- Life Member, Association of Chemistry Teachers, KBCNMU (LM-003).
- Life Member, Marathi Vidnyan Parishad.
- Editorial Board Member, Vasundhara- Journal of Applied Research, Association of Indian Researchers, Dhule, MS.
- Secretary, Association of Chemistry Teachers, KBCNMU (From September 2019).

Delivered Lectures –

1. Nano Technology Future Prospectus, Olympiad Students Camp at Reu Wani Vidnyan Sanatha, Dhule on 14.6.2013.
2. Delivered Lecture on **Nanotechnology in Daily life** to District level Olympiad workshop Organized by MKCL and Ekalvy Vidyalaya and J. G. Natawadkar Jr College, Nandurbar on 23.04.2013.
3. Sadbhavana Divas to NSS students at Kisan Arts Commerce and Science College Parola. On 21.8.2012.
4. Delivered Lecture on **Nanotechnology and its applications** at Science Association, GTP College, Nandurbar on 5.10.2011
5. Delivered Lecture on **Nanotechnology and its applications** at Staff Academy, GTP College, Nandurbar on 30.12.2011
6. Guest Lecture to M Sc Classes on Crystallography (CH- 210 Physical Chemistry) on Department of Organic Chemistry, North Maharashtra University, Jalgaon, From 12.3.2011 to 2.04.2011.
7. Delivered Talk as Interview-New Methods of Dye Removal on All India Radio, Akashwani Dhule on 26.8. 2008.

Orientation / Refresher Courses

- Orientation Course at Academic Staff College, Aligarh Muslim University, Aligarh (U.P.), During 8.7.1996 to 4.8.1996.
- Refresher Course in Chemistry at Academic Staff College, Himachal Pradesh University, Shimla (H.P.), During 24.11.2008 to 13.12.2008.
- Refresher Course in Physics and Chemistry of Advanced Materials at Academic Staff College, North Bengal University, Darjeeling (W.B.), During 15.11.2011 to 05.12.2011.
- Refresher Course in Chemistry on New Frontiers of Chemical Sciences For Sustainable Future at Academic Staff College, University of Rajasthan, Jaipur (R.J.), During 27.01.2014 to 15.2.2014.
- Short Term Course (Faculty Development Programme) on Advances in Nanosciences and Nanotechnology Conducted by ACS College, Taloda, Dist Nandurbar under UGC-HRDC, Savitribai Phule Pune University, Pune from 22.12.2017 To 28.12.2017
- Short Term Course on Research Methodology conducted by UGC-HRDC, Sardar Patel University, Vallabh Vidyanagar, Anand, Gujarat, from 24.02.2020 To 01.03.2020

- Faculty Development Programme on "Managing Online Classes and Co-Creating MOOCS" conducted by Teaching Learning Centre, Ramanujan College, University of Delhi, Sponsored by Ministry of Human Resource Development, under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) Scheme from 20 April 2020 - 06 May, 2020 (Two Weeks).
- Faculty Development Programme on "Creating High Impact Work Culture" organized by IQAC, B. Raghunath Arts Commerce and Science College, Parbhani from 6 May 2020 to 11 May 2020 (One Week)
- Faculty Development Programme on "Managing Online Classes and Co-Creating MOOCS:2.0" conducted by Teaching Learning Centre, Ramanujan College, University of Delhi, Sponsored by Ministry of Human Resource Development, under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) Scheme from 18 May, 2020 - 03 June, 2020 (Two Weeks).
- Faculty Development Programme on "Open Source Tools for Research" conducted by Teaching Learning Centre, Ramanujan College, University of Delhi, Sponsored by Ministry of Human Resource Development, under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) Scheme from 08 June 2020 - 14 June, 2020 (One Week).
- Train-the-Teacher-Training (TTT) Programme on "Online Learning: Live Classroom Teaching Platforms" organized by KBC, NMU, Jalgaon on 20 July 2020-23 July 2020.

Research Thrust Areas:

Nanomaterials synthesis and its applications in degradation of organics, Kinetics of Photocatalytic degradation, Polymer surfactant interactions.

Ph. D. Awarded: 08

Ph. D. Ongoing: 01

| Sr. No. | Name of Student (Date of Registration) | Title of Research Work | Status (Date of Ph. D. Award) |
|----------------|---|---|--|
| 1. | Mr. Sandip P. Patil (20.1.2012) | Intensification of photocatalytic degradation of organic pollutants using nanocomposites and nano thin films | Awarded (14.9.2017) |
| 2. | Mr. Vilas K. Mahajan (06.5.2013) | Development of hybrid system for degradation of Organic dyes using ultrasound and nanophotocatalyst | Awarded (11.1.2018) |
| 3. | Mr. Prakash K. Labhane (06.5.2013) | Studies on catalytic degradation of organics by using nano metal oxides and doped metal oxides | Awarded (29.10.2018) |
| 4. | Mr. Anil D. Kakuste (20.1.2012) | Physico chemical properties of polymer surfactants and additives mixed system in aqueous medium | Awarded (17.7.2020) |
| 5. | Mr. Sunil G. Shelar (06.05.2013) | Development of low cost advanced oxidation process for removal of organic moieties – A kinetic, mechanistic and thermodynamics approach | Awarded (01.6.2021) |
| 6. | Mr. Balkrishna B. Patil (6.5.2013) | Studies on Thermo acoustical and clouding behavior of surfactants with polymers in aqueous medium | Awarded (31.8.2021) |
| 7. | Mr. Kanhaiyalal S. Bhavsar (Co-guide) (6.5.2013) | Study of Photocatalytic Degradation of Organics Using activated Carbon loaded nanophotocatalyst. | Awarded (6.10.2021) |
| 8. | Mr. Vivek C. Badgujar (6.5.2013) | Enzyme immobilization and its application for fine chemical synthesis | Awarded (12.11.2021) |

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|----|---|---|-------------|
| 9. | Mr. Kiran D. Patil (Co-guide) (22.5.2018) | Impact of hydroxylated cationic gemini and its monomeric surfactant in mixed system in presence of various additives in aqueous medium. | In Progress |
|----|---|---|-------------|

List of Publications

| Sr. No | Name of the Teacher | National | International | Communicated | Total |
|--------|---------------------|----------|---------------|--------------|-------|
| | Dr.G.H.Sonawane | 01 | 62 | 01 | 64 |

Citation Index and Impact Factor –

| Journal | ISSN/ISBN Number | SNIP | SJR | Impact Factor | h Index | Citation Index |
|--|------------------|-------|-------|---------------|-----------|----------------|
| Desalination (Elsevier), | 0011-9164 | 1.781 | 1.549 | 3.765 | 14 | 591 |
| Desalination and Water Treatment, Taylor and Francis, | 1944-3994 | -- | 0.39 | 1.173 | | |
| J. of Applicable Chemistry | 2278-1862 | -- | 0.13 | 1.291 | | |
| Chemical Science Review and Letters | 2278-6783 | -- | -- | 4.014 | | |
| Journal of Environmental Chemical Engineering (Elsevier) | 2213-3437 | 1.428 | 0.810 | 1.054 | | |
| J. of Industrial and Engineering Chemistry (Elsevier) | 1226-086X | 1.380 | 0.964 | 4.179 | | |
| Materials Science in Semiconductor Processing(Elsevier) | 1369-8001 | 0.944 | 0.577 | 2.264 | | |
| Chemical and Physics Letters (Elsevier) | 0009-2614 | 0.717 | 0.757 | 1.860 | | |

1. Sonawane, G.H., Patil B. B. Patil H.A. and V.S. Shrivastava. Micellization and dissociation behavior of Zinc Sterate in Methanol-p-xylene mixtures by conductance measurements, Asian Journal of Chem. **17(1)**, 381-386 (2005). **IF 0.268**

2. Sonawane, G.H. and Shrivastava, V.S., Organic metallic interactions in dye industry wastewater: A detective and statistical approach, Asian J. of Chem., **19(5)**, 3637-3644 (2007). **IF 0.268**
3. Sonawane, G.H. and Shrivastava, V.S., Adsorption kinetics for the removal of Malachite green from aqueous solution by using banana leaves, Pollution Research., **27(2)**, 339-343 (2008).
4. Sonawane, G.H. and Shrivastava, V.S., Utilization of bio-adsorbent based on *Zea maize* for removal of water soluble dye: A kinetic Studies, Asian J. of Chem. Envir. Res., **1(1)**, 18-27 (2008). **IF 0.361**
5. Sonawane, G.H. and Shrivastava, V.S., Removal of basic dye (Methylene blue) from aqueous solution by adsorption using *Musa paradisiaca*: An agricultural waste, J. of Envir. Sci. and Engg. (CSIR), **51(1)**, 45-52(2009).
6. Sonawane, G.H. and Shrivastava, V.S., Kinetics of decolorization of Malachite green in aqueous solution by maize cob (*Zea maize*): an agricultural solid waste, Desalination (Elsevier), **247**, 430-441(2009). **IF 2.403**
7. Sonawane, G.H. and Shrivastava, V.S., Removal of basic dye from aqueous medium using a novel agricultural waste material: *Gossypium arboreum* stem, Asian J. of Chem. Envir. Res.,**2(3)**,1-10 (2009) **IF 0.361**
8. Sonawane, G.H. and Shrivastava, V.S., Ground water quality assessment nearer to the dye user industry, Archives of Applied Science Research, **2(6)**, 126-130 (2010).
9. Sonawane, G.H. Shrivastava, V.S. and Gupta V.K., Studies on drinking water quality of groundwater of Auraiya district (U.P.), J. Applied Chemical Research, **14**, 27-36 (2010).
10. Sonawane, G.H. and Shrivastava, V.S., Removal of hazardous dye from synthetic textile dyeing and printing effluents by on *Archis hypogea L* shell: a low cost agro waste material, Desalination and Water Treatment, Taylor and Francis, **29**, 29-38 (2011). **IF 0.852**
11. Sonawane, G.H. and Shrivastava, V.S., Orange-II removal from simulated wastewater by adsorption using *Annona squamosa* shell: A kinetic and equilibrium studies, Desalination and Water Treatment, Taylor and Francis, **36**, 374-382 (2011). **IF 0.852**
12. Sonawane, G.H., Patil B.B., Shrivastava. V.S., Metallic's in industrial wastewater in GIDC Ankleshwar (Gujarat) - A statistical approach, Asian J. of Chem. Envir. Res., **4(2)**,43-49 (2011). **IF 0.361**

13. Sonawane, G.H., Patil T. J., Thermodynamics of micellization of nonionic surfactant Triton-X-100 in presence of additive Poly-N-vinyl-Pyrrolidone using clouding phenomenon, *Oriental J Chemistry* 29(1), 227-233 (2013). **IF 0.5**
14. Sonawane, G.H., Patil T. J., Influence of water soluble polymer Poly vinyl alcohol (PVA) on the micellar behavior of nonionic surfactant Triton-X-100 – Thermodynamics and clouding approach, *J of Applicable Chemistry*, 2(5), 1155-1163 (2013) **IF 1.2910**
15. Sonawane, G.H., Patil S. P. and Shrivastava, V.S., Detection of organics from industrial effluent of Surat region (Gujarat), *Asian J. of Chem. Envir. Res.*, 6(1-2), 40-45 (2013). **IF 0.361.**
16. Sonawane, G.H., Patil T. J., Thermodynamics of clouding behavior of nonionic surfactant polyoxyethylene(10) Cetyl ether (Brij56) with and without nonpolar additives, *Chemical Science Review and Letters*, 3(12), 962-969 (2014).**IF 4.014**
17. Sonawane G. H., Vilas K Mahajan, Detection of organics from industrial effluents of Ankleshwar region (Gujrat), *Asian J. of Chem. Envir. Res.*, 7(1-4),34-40 (2014) **IF 0.039**
18. Sonawane, G.H., Patil S. P. and Shrivastava, V.S., Photocatalytic degradation of Rhodamine 6G using ZnO-montmorillonite nanocomposites a kinetic approach, *Desalination and Water Treatment (Taylor and Francis)*, 54(2), 374-381 (2015). **IF 0.852.**
19. Sonawane, G.H., A.D. Kakuste, M. S. Borse, Effect of Polyacrylic acid and Polyacrylamide on clouding behavior of Triton-X-100 in aqueous medium. *Tenside Surfactant and Detergents*, 52(1), 62-65 (2015). **IF 0.981**
20. Sonawane, G.H., Patil T. J., Micellization of anionic surfactant sodium dodecyl sulfate in presence of additive urea and acetamide in aqueous medium using clouding, *J of Chemical and Pharmaceutical Research*, 7(6), 331-338 (2015) **IF0.684**
21. Sonawane, G.H., A.D. Kakuste, M. S. Borse, Cloud point and Thermodynamic properties of non ionic surfactant Triton-X-100 in presence of various organic and inorganic salts, *J of Chemical and Pharmaceutical Research*, 7(5) 1193-1198 (2015). **IF0.684**
22. Sonawane, G.H., Labhane P K, Huse V R., $\text{Cu}_x\text{Zn}_{1-x}\text{O}$ Nanocrystal Structural Study and Photocatalytic Application, *International J of Researches in Biosciences, Agriculture and Technology*, 1, 267-274 (2015).**IF 4.935**
23. Sonawane, G.H., Labhane P K, Huse V R., L.B. Patle, A. L. Chuadhari, Synthesis of Cu doped ZnO Nanoparticles : Crystallographic optical FTIR, Morphological and

- Photocatalytic study, *J Materials Science and Chemical Engineering*, 3(7), 39-51 (2015) **IF 0.56**
24. Sonawane G. H. Shrivastava, V.S Patil Sandip S., Synthesis of nano ZnS thin films by chemical bath deposition method and its application for the removal of Victoria blue dye, *Der Chemica Sinica*, 6(8):25-29, (2015). **IF 0.676**
 25. Sonawane G. H., Vilas K Mahajan, Improved Photocatalytic Activity of CeO₂ Coupling Ultrasound, for Eosin-Y Degradation, *J. of Applicable Chemistry*, 4(5), 1500-1506 (2015). **IF 1.206**
 26. Sonawane, G.H., Patil S. P., Shrivastava, V.S. and Sonawane S. H. Synthesis of novel Bi₂O₃-montmorillonite nanocomposite with enhanced photocatalytic performance in dye degradation, *Journal of Environmental Chemical Engineering (Elsevier)*, 3, 2597-2603 (2015). **IF 1.054**
 27. Sonawane G. H., Patil Sandip P., Shrivastava, V.S., Bhaskar Bethi, Sonawane S. H. ., Efficient adsorption and photocatalytic degradation of Rhodamine B dye over Bi₂O₃-bentonite nanocomposites: a kinetic study, *J of Industrial and Engineering Chemistry (Elsevier)*, 34, 356-363 (2016) **IF 4.179**.
 28. Sonawane G. H., Patil Sandip P., Patil Rahul P. Mahajan Vilas K. Shrivastava, V.S., Sonawane S. H., Facile sonochemical synthesis of BiOBr-graphene oxide nanocomposite with enhanced photocatalytic activity for the degradation of direct green. *Materials Science in Semiconductor Processing*, 52, 55-61 (2016). **IF2.264**
 29. Sonawane, G.H., Labhane P K, Patle L.B., Huse V R., Sonawane S. H., Synthesis of reduced graphene oxide sheets decorated by zinc oxide nanoparticles: Crystallographic, optical, morphological and photocatalytic study. *Chemical Physics Letters (Elsevier)* 661, (2016) 13-19 **IF 1.860**.
 30. Vilas K. Mahajan, Sandip P. Patil, Shirish H. Sonawane and Gunvant H. Sonawane Ultrasonic, photocatalytic and sonophotocatalytic degradation of Basic Red-2 by using Nb₂O₅ nano catalyst, *AIMS Biophysics*, 3, 415-430 (2016).
 31. Vilas Kailas Mahajan and Gunvant Hari Sonawane, Effective degradation and mineralization of real textile effluent by sonolysis, photocatalysis, and sonophotocatalysis using ZnO nano catalyst, *Nanochem Res*, 13,1(2), 258-263, (2016) **IF. 1.087**

32. Sandip P. Patil, and Gunvant H. Sonawane, Effective photocatalytic removal of eosin Y dye using Bi₂O₃-Bentonite nanocomposite. Asian J. of Chem. Envir. Res., 9(1-4),23-27 (2016).**IF 1.46**
33. Vilas K. Mahajan, and Gunvant H. Sonawane Ultrasonic, photocatalytic and sonophotocatalytic degradation of malachite green by using nano CeCrO₃, Asian J. of Chem. Envir. Res., 9(1-4), 70-75 (2016).**IF 1.46**
34. Sonawane, G.H., A.D. Kakuste, M. S. Borse, Polyacrylic acid and poly acryl amide as cloud point modifier for Modifier for Brij-30 in Alcoholic Aqueous Solution, Journal of Dispersion Science and Technology (Taylor and Francis) 38, 334–338, (2017).**IF1.17**
35. Vilas K. Mahajan, Sandip P. Patil, and Gunvant H. Sonawane, Photocatalytic Degradation of safranin by ZnO-Bentonite-photo degradation versus adsorbability J Inst. Eng. India Series. E. (Springer). 98(1) 55-63 (2017).
36. Sonawane, G.H., Patil S. P., Shrivastava, V.S. and V. K. Mahajan, Kinetics of photocatalytic degradation of methylene blue by ZnO-bentonite nanocomposite, Iranian Chemical Communication, 5, 417-428 (2017). **IF0.734**
37. Sonawane, G.H., Labhane P K, Sonawane S. H., Influence of rare-earth metal on the zinc oxide nanostructures: application in the photocatalytic degradation of methylene blue and p-nitro phenol, Green Process Synthesis -De Gruyter, 1-12 (2017) **IF 0.85**.
38. Sonawane, G.H., A.D. Kakuste, Influence of various electrolytes on clouding behaviour of non ionic surfactant Brij 30, Chemical Science Review and Letters, 6(24), 2163-2168 (2017) **IF4.014**
39. Sonawane, G.H., Labhane P K., Sonawane S. H., Patil S. P., H. R. Huse., Influence of Mg doping on ZnO nanoparticles decorated on Graphene oxide (GO) crumpled paper like sheet and its high photo catalytic performance under Sunlight, Journal of Physics and Chemistry of Solids, (Elsevier), 114, 71-82 (2018) **IF 2.07**
40. Labhane P K., Patle L. B., Huse V. R., Sonawane G.H., Synthesis of Ce doped ZnO nanoparticles coupled with graphene oxide as efficient photocatalyst for degradation of dye under day light, AIP Conference Proceedings,1953, 30008, 1-4 (2018)
41. Labhane P K., B. M. Sapkal, Sonawane G.H., Synthesis and characterization of rod like C doped ZnO nanoparticles with enhanced photocatalytic activities. AIP Conference Proceedings,1953,30048, 1-4 (2018)

42. Labhane P K., Patle L. B, Sonawane G.H., Sonawane S. H., Fabrication of ternary Mn doped ZnO nanoparticles grafted on Reduced Graphene oxide (RGO) sheet as an efficient solar light driven photocatalys, Chemical and Physics Letters (Elsevier), 710, 70-77 (2018) **IF 1.860**.
43. Patil B.B., Sonawane, G.H., Influence of PVP and PEO on Cloud Point of Poly (oxyethylene) 10 Oleyl Ether (Brij-97): A Thermodynamic Approach, J Chemical and Pharmaceutical Research, 10(10), 1-9 (2018).
44. Sunil G. Shelar, and Gunvant H. Sonawane, Detections of organic moieties from industrial effluent of textile industry located in Udhana (Surat), Gujarat: A case study, Asian Journal of Chemical and Environmental Research, 11(1-4), 35-40 (2018).
45. Vilas Kailas Mahajan and Gunvant Hari Sonawane, Effective degradation of Congo red (CR) by ultrasonic, photocatalytic and sonophotocatalytic process in presence of CdS nano catalyst, International Journal of Research and Analytical Reviews, 6(1), 453-467, (2019).
46. Patil B.B., Sonawane, G.H., Effect of molecular weight of PEG on the cloud point of Polyoxyethylene (10) oleyl ether (Brij-97). - A Thermodynamic approach, Journal of Emerging Technologies and Innovative Research 6(2), 386-395 (2019)
47. Sonawane, G.H., B.S. Bhadane, T. J. Patil, Conductometric studies on micellar properties of dodecyl dimethyl ammonium bromide in presence of additives at various temperature, Journal of Emerging Technologies and Innovative Research 6(3), 583-595 (2019)
48. K.S. Bhavsar, P.K. Labhane, R.B. Dhake, G.H. Sonawane, Crystal structures, morphological, optical, adsorption, kinetic and photocatalytic degradation studies of activated carbon loaded BiOBr nanoplates prepared by solvothermal method, Inorganic Chemistry Communications, 104,134-144 (2019). **IF 1.810**
49. Sunil G. Shelar, Vilas K. Mahajan, Sandip P. Patil and Gunvant H. Sonawane, Enhancement of visible light induced photocatalytic degradation of Eosin-Y by using TiO₂ and Ag doped TiO₂ nano catalyst, J. Mater. Environ. Sci.,10, 5, 431-441 (2019)
50. Patil B.B., Sonawane, G.H., Studies of Thermo Acoustical Properties of Polyoxyethylene (10) oleyl ether in presence of polyvinyl pyrrolidone at different temperatures by Ultrasound measurement, Journal of Applicable Chemistry, 8(4), 1900-1908 (2019).
51. Patil B.B., Sonawane, G.H., Studies of thermo acoustical properties of Polyoxyethylene (20) cetyl ether (Brij-58) in presence of additives at different temperatures, IJSRSET, 6(3), 377-389 (2019).

52. Labhane P K., Sonawane G.H., Fabrication of raspberry-shaped reduced graphene oxide labelled Fe/CeO₂ ternary heterojunction with an enhanced photocatalytic performance, *Inorganic Chemistry Communications*, 113,107809 (2020). **IF 1.810**
53. K.S. Bhavsara, P.K. Labhane, R.B. Dhake, G.H. Sonawane, Solvothermal synthesis of activated carbon loaded CdS nano flowers: Boosted photodegradation of dye by adsorption and photocatalysis synergy, *Chemical and Physics Letters (Elsevier)*, 744, 137202 (2020). **IF 1.860.**
54. Sunil G. Shelar, Vilas K. Mahajan, Sandip P. Patil, Gunvant H. Sonawane, Effect of doping parameters on photocatalytic degradation of methylene blue using Ag doped ZnO nanocatalyst, *SN Applied Sciences (Springer Nature)*, 2, 820, (2020).
55. Vilas K. Mahajan, and G. H. Sonawane, Degradation of 3,7-Bis(dimethyl amino) phenothiazin-5-ium chloride in aqueous solution by ultrasonic cavitation, *Vidyabharati International Interdisciplinary Research Journal, NCRACS*, 10-17, (2020).
56. Sunil G. Shelar, Vilas K. Mahajan, Sandip P. Patil, Gunvant H. Sonawane, Photocatalytic degradation of Methyl orange using nano Fe₂O₃ and Ce doped Fe₂O₃ of different compositions. *Vidyabharati International Interdisciplinary Research Journal, NCRACS*, 66-72, (2020).
57. Patil B.B., Sonawane, G.H., Effect of polymer on the ultrasonic velocity and acoustic parameters of aqueous micellar solution of Polyoxyethylene (23) lauryl ether, *Vidyabharati International Interdisciplinary Research Journal, NCRACS*, 240-251, (2020) (UGC CARE List II).
58. K.S. Bhavsar, P.K. Labhane, V. R. Huse, R.B. Dhake, G.H. Sonawane, Activated carbon immobilized WO₃ nanocuboids: adsorption/photocatalysis synergy for the enhanced removal of organic pollutants, *Inorganic Chemistry Communications*,121 (2020) 108215 **IF 2.495.**
59. K.S. Bhavsar, P.K. Labhane, V. D. Murade, R.B. Dhake, G.H. Sonawane, A photocatalyst: Zinc sulfides nanospheres immobilized on Activated carbon for abatement of aquatic organic pollutants, *Inorganic Chemistry Communications*,133 (2021) 108958 **IF 2.495.**
60. Sunil G. Shelar, Vilas K. Mahajan, Sandip P. Patil and Gunvant H. Sonawane, Visible light induced photocatalytic degradation of Victoria Blue by using ZnS and Co doped ZnS nano catalyst, *Journal of Scientific Research*, 65(7) 2021, 6-12.

61. Anil D. Kakuste, Mahendra. S. Borse, Jagdish U. Patil, Gunvant H. Sonawane, Density, viscosity and ultrasonic velocity of Brij-35 in presence of water-soluble polymers, Journal of Scientific Research, 65(7) **2021**, 29-33.
62. Gunvant H. Sonawane, Balkrishna B. Patil, Bhagwan S. Bhadane, Screening analysis of volatile organic contaminants in industrial wastewater of GIDC Ankleshwar, Gujarat(India), Journal of Scientific Research, 65(7) **2021**, 71-81.
63. Pooja P. Patil, Mahendra S. Borse, Kiran D. Patil, Rajendrakumar B. Ahirrao, Gunvant H. Sonawane, Thermo acoustic studies of mixed surfactants (Brij-97 + DTAB) system in presence of various additives, Journal of Scientific Research, 65(7) **2021**, 115-119.

Book Chapter: 4

1. Sonawane, G.H., Bhadane B.S., Patil A. M., A combined effect of ultrasound cavitations on adsorption kinetics in removal of 4-[(4-dimethyl amino phenyl) phenyl-methyl]- N, N-dimethyl aniline along with bio adsorbent. Chemical Bioprocess Engineering Trends and Developments, Apple Academic Press, 34, 370-390 (**2015**) ISBN 978-1-77188-077-0.
2. Gunvant H. Sonawane, Patil Sandip P., Shirish H. Sonawane, Nano Composites and Its Applications, Applications of Nanomaterials - Advances and Key Technologies, Elsevier-Woodhead, Chapter 1, 1-22, (**2018**), <https://doi.org/10.1016/B978-0-08-101971-9.00001-6>, ISBN: 978-0-08-101971-9.
3. Gunvant H. Sonawane, Prakash K. Labhane, and Shirish H. Sonawane, New graphene-based nanocomposite for photocatalysis, Handbook of Nanomaterials for Wastewater Treatment, Elsevier, Chapter 7, 181-207, (**2021**) ISBN 9780128214961
4. Gunvant H. Sonawane Swapnil L. Sonawane, and Prakash K. Labhane, Carbon-based nanocomposite membranes for water purification, Handbook of Nanomaterials for Wastewater Treatment, Elsevier, Chapter 18, 555-574, (**2021**) ISBN 9780128214961.

Text Books Published: 22

1. T. Y. B. Sc. Semester-I, Analytical Chemistry, CH-334, Vrinda Publications, Jalgaon, ISBN - 81-7815-004-2, June, 2009, G.H. Sonawane and others.
2. T. Y. B. Sc. Semester-II, Paper I Applied Physical Chemistry, CH-341, Vrinda Publications, Jalgaon, ISBN - 81-7815-069-7, June- 2009, G.H. Sonawane and others

3. F. Y. B. Sc. Practical Chemistry, CH-103, Vrinda Publications, Jalgaon, ISBN 81-7815-017, June, 2012, G.H. Sonawane and others
4. S. Y. B. Sc. Practical Chemistry, CH-203, Vrinda Publications, Jalgaon, June, 2013, G.H. Sonawane and others
5. T. Y. B. Sc. Physical Chemistry Practical, CH-306, Vrinda Publications, Jalgaon, June, 2014, G.H. Sonawane and others
6. S. Y. B. Sc. Organic and Analytical Chemistry, Semester II Paper II CH-242, December, 2014, Vrinda Publications, Jalgaon, ISBN 978-81-930562-7-1 G.H. Sonawane and others
7. F. Y. B. Sc. Chemistry practical Sem I & II, Vrinda Publications, Jalgaon, ISBN 978-93-85028-32-8, June-2015, G.H. Sonawane and others
8. S. Y. B. Sc. Practical Chemistry, Semester II Paper III CH-233, CH-243, July 2016, Vrinda Publications, Jalgaon, ISBN 978-93-850 28-68-7, July -2016, G.H. Sonawane and others
9. T. Y. B. Sc. Physical Chemistry, Semester-V, Paper-I, CH-351, Vrinda Publications, Jalgaon, ISBN - 978-93-85028-99-1, July, 2017, G.H. Sonawane and others
10. T. Y. B. Sc. Physical Chemistry Practical, CH-357, June, 2017, Vrinda Publications, Jalgaon, G.H. Sonawane and others
11. F. Y. B. Sc. Physical and Inorganic Chemistry, CH-101, Semester I, Paper I, June 2018, Kumud-Vrinda Publications, Jalgaon, ISBN - 978-93-85027-88-8, G.H. Sonawane and others
12. F. Y. B. Sc. Chemistry Practical, CH-103, Semester I, Paper III, June 2018, Kumud-Vrinda Publications, Jalgaon, ISBN - 978-93-85027-91-8, G.H. Sonawane and others
13. F. Y. B. Sc. Physical and Inorganic Chemistry, CH-201, Semester II, Paper I, June 2018, Kumud-Vrinda Publications, Jalgaon, ISBN - 978-81-93924-11-2, G.H. Sonawane and others
14. F. Y. B. Sc. Chemistry Practical, CH-203, Semester II, Paper III, June 2018, Kumud-Vrinda Publications, Jalgaon, ISBN - 978-81-93924-12-9, G.H. Sonawane and others
15. S. Y. B. Sc. Basic Analytical Chemistry(Skill Enhancement Course), CH-304, Semester III, Paper IV, June 2019, Prashant Publications, Jalgaon, ISBN 978-93-88769-89-1, G.H. Sonawane and others.
16. T. Y. B. Sc. Physical Chemistry, Semester-VI, Paper-I, CH-361, Vrinda Publications, Jalgaon, ISBN 81-87318-80-5, December 2017, G.H. Sonawane and others.
17. T. Y. B. Sc. Physical Chemistry Practical, Semester-VI, CH-367, December 2017, Vrinda Publications, Jalgaon, ISBN 81-87318-87-2, G.H. Sonawane and others.

18. S. Y. B. Sc. Advanced Analytical Chemistry(Skill Enhancement Course), CH-404, Semester IV, Paper IV, June 2019, Prashant Publications, Jalgaon, ISBN 978-93-89492-62-0, G.H. Sonawane and others.
19. T. Y. B. Sc. Principles of Physical Chemistry, CBCS, Semester-V, CH-501, August 2020, Prashant Publications, Jalgaon, ISBN 978-93-89501-82-7, G.H. Sonawane and others.
20. T. Y. B. Sc. Practical Chemistry, CBCS, Semester-V, CH-507, August 2020, Prashant Publications, Jalgaon, ISBN 978-93-89501-89-6, G.H. Sonawane and others.
21. T. Y. B. Sc. Principles of Physical Chemistry, CBCS, Semester-VI, CH-601, February 2021, Prashant Publications, Jalgaon, ISBN 978-93-90483-40-2, G.H. Sonawane and others.
22. T. Y. B. Sc. Research Methodology in Chemistry, CBCS, Semester-VI, CH-606(B), January 2021, Prashant Publications, Jalgaon, ISBN 978-93-89501-82-7, G.H. Sonawane and others.

Papers Presented In Conference: 28

| Level | Number of Conference |
|------------------|----------------------|
| International | 04 |
| National | 21 |
| State/University | 03 |
| Total | 28 |

International:

1. G. H. Sonawane, P K. Labhane Presented paper in International Conference on Innovations in Biological and Chemical Sciences, Organized By Department of Zoology, TVES, Dhanaji Nana College, Faizpur Dist Jalgaon, Fabrication of SnO₂ decorated ZnO nano rod with enhanced photocatalytic performance, on 21-22 Dec 2017.
2. G. H. Sonawane, Presented paper in International Conference on “Chemical and Bioprocess Engineering-India (ICCBPE-IN-2013)” Organized by Department of Chemical Engineering, National Institute of Technology, Warangal (AP) (CH-60) A combined effect of ultrasound cavitation on adsorption kinetics in removal of 4-[(4-dimethyl amino phenyl) phenyl-methyl]-N, N-dimethyl aniline along with bio adsorbent, on 16-17 November 2013.
3. G. H. Sonawane, Presented paper in International Level Conference on “Sustainable Water Resource Development and Management” Organized by Department of Environmental Science, Shivaji University Kolhapur (P-276) Biosorption of basic dye from aqueous medium using a novel agricultural waste material Gossium arboretum stem, on 20-21 December 2012.

4. G. H. Sonawane and V. S. Shrivastava, Potential use of agro waste bio-adsorbents for the removal of basic dye - an equilibrium and kinetics studies (PP-180), International conference on Biodiversity and Environmental Crisis- Post Present and Future (ICBEC-2011), SSVPS L.K. Dr P. R. Ghogrey Science College, Dhule (MS), 11-13 February 2011.

National:

5. G. H. Sonawane, P. K. Labahne, Presented paper in National Level Conference on New Dimensions in Chemistry and Chemistry Education and National Convection of Chemistry Teachers (NCCT-2019), Jointly Organized by Sant Gadge Baba Amravati University, Amravati and Association of Chemistry Teachers (ACT), TIFR Mumbai, on Efficient Solar light ternary Mn-ZnO-rGO photocatalyst for the removal of rhodamine b and Congo red, on 5 to 7 December 2019.(OP-6)
6. G. H. Sonawane, V. K. Mahajan, Presented paper in National Seminar on Recent Emergence in Sciences and Technology (REST-2019), Organized by PPSPM Shri V S Naik Arts, Commerce and Science College, Raver and SSES Seva sadan Mahavidyalaya Dist Burhanpur (MP) on effective Degradation of Congo Red by ultrasonic, photocatalytic and sono photocatalytic degradation in presence of CdS nano catalyst on 11th and 12th February 2019
7. G. H. Sonawane, V. K. Mahajan, Presented paper in National Conference on Recent Trends in Life Sciences (RTILS-2019), Organized by Late S. D. Patil Arts, Commerce and Late M. D. Sisode Science College, Shindkheda, Dist Dhule, Effective Degradation of Congo Red by ultrasonic, photocatalytic and sono photocatalytic degradation in presence of CdS nano catalyst on 18th January 2019.
8. G. H. Sonawane, P K. Labhane presented paper in National Conference on Recent Advance in Chemical and Biological Sciences for Sustainable Development (RACBSD-2018), Organized By Department of Chemistry, JET,S Zulal Bhilajirao Patil College, Dhule, on Synthesis of ZnO- graphene oxide (GO) nanocomposite by sol-gel auto combustion method and its high photo catalytic performance under day light, 3 February, 2018.
9. G. H. Sonawane, V. K. Mahajan, Presented paper in 1st National Conference on Advances in Chemical Sciences, Organized by School of Chemical Sciences, North Maharashtra University, Jalgaon UV light induced ultrasonic photocatalytic and sono photocatalytic degradation of basic red on 4th March 2017.

10. G. H. Sonawane, Presented paper in XXXVth Annual Conference of Indian Council of Chemists ICC-2016 Organized by H. V. Desai College, Pune and College of Engineering, Pune Enhance ultrasonic photocatalytic and sonophotocatalytic degradation of safranin by using Nb_2O_5 nano catalyst (AO-7) on 22-24 Dec 2016
11. G. H. Sonawane, Presented paper in UGC Sponsored National Conference on Recent Trends and Advances in Chemical sciences Organized by B. Raghunath Arts Commerce and Science College Parbhani, Enhance Sono Photocatalytic degradation of Safranin Using Niobium Pentoxide 12-13 January 2016.
12. G. H. Sonawane, P K. Labhane Presented paper in Royal Society of Chemistry Symposium on Frontiers of Advances in Chemistry and Technology-2015 (FACT-2015) Sponsored by UGC-SAP-DSA-I Organized by School of Chemical Sciences on North Maharashtra University, Jalgaon on Influence of Cu doping on structural and photocatalytic properties of ZnO prepared by sol-gel auto combustion method on 11-12 December 2015.
13. G. H. Sonawane, Presented paper in National Seminar on Recent Trends in Environmental Protection Concerns and Challenges Organized by Arts Commerce and Science College Songir, Dist Dhule on 5 October 2015,
14. G. H. Sonawane, V. K. Mahajan, Presented paper in UGC Sponsored National Conference on Life Sciences Major Challenges”(LSMC-2015) Organized by Department of Zoology, B. Raghunath College, Parbhani (MS), Ultrasonic Photocatalytic and sonophotocatalytic degradation of Eosin Y in presence of CeO_2 nanoparticles. on 3-4 September 2015,
15. G. H. Sonawane, P K. Labhane Presented paper in UGC Sponsored National Seminar on Recent advances in Chemical Sciences (NSRACS-2015) Organized by CSPM Janta Mahavidyalaya, Chandrapur on 16 February 2015, $\text{Cu}_x\text{Zn}_{1-x}\text{O}$ Nano Crystals Structural Study and Photocatalytic Applications.
16. G. H. Sonawane, V. K. Mahajan, Presented paper Fe (II) Enhanced sonochemical degradation of methylene blue solution in aqueous solutions in 5th National Conference on Recent Advances in Chemo and Bio Sciences(RACBS-2015) Jointly organized by M J College, Jalgaon and Post Graduate College of Science, Technology and Research, Jalgaon on 23-24 January 2015.
17. G. H. Sonawane, V. K. Mahajan, Sonawane S. H. Presented paper in National Level Seminar on “Current Trends in Chemistry”(CTIC-2014) Organized by Department of Chemistry, DNCVP, Arts Commerce and Science College, Jalgaon (MS) (OP-27) Degradation of 3,7-bis(Dimethyl amino)- phenothiazone-5-ium chloride in aqueous solution by ultrasonic cavitation. on 20 January,2014

18. G.H. Sonawane, Presented paper in National Level Conference on “Emerging Trends in Synthetic and Polymer Chemistry”(ETSPC-2013) Organized by Department of Chemistry, B. Raghunath College, Parbhani (MS) (OP-8) Techniques Thermodynamics and micellization studies of nonionic surfactant Triton-X-100 in presence of water soluble polymer using clouding phenomenon. on 29-30 December 2013
19. G. H. Sonawane, Presented paper Detection and Identification of organics in National Level Conference on “Trends in Chromatography and Spectroscopic Techniques” Organized by Shirpur Education Society’s R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur, Dist Dhule (M.S.) on 6th October 2012.
20. G. H. Sonawane and V. S. Shrivastava, Equilibrium sorption of anionic dye from aqueous solutions by *Annona squamosa* shell as adsorbent (OP-3), Conference on Emerging trends in Chemistry and Chemical Research (ETCCR-2011), Jai Hind Education Society’s Z. B. Patil College Dhule (MS), 18-19 February 2011.
21. G. H. Sonawane and V. S. Shrivastava, Equilibrium and kinetic modeling of bio sorption of safaranine on to parthenium hysterophorous L in a batch system: on agro waste material (OP-4), National Conference on Green Chemistry and Environmental Pollution (GCEP-2010), SSVPS L.K. Dr P R Ghogrey Science College, Dhule (MS), 16-17 January 2010.
22. G. H. Sonawane and V. S. Shrivastava, Removal of dyes from synthetic textile dye effluent by biosorption on *Archis Hypogea* L shell: An agro waste material Presented a paper in 28th National Conference of Indian Council of Chemist, Department of Chemistry, Hemchandracharya North Gujarat University, Patan (Gujarat) ,7-10 November 2009.
23. G. H. Sonawane and V. S. Shrivastava, Adsorption of basic dye onto maize cob (*zea maize*) an agricultural waste : sorption equilibrium and kinetics studies (PO-19) 26th National Conference of Indian Council of Chemist, Department of Chemistry, Dr H. S. Gour University, Sagar (MP) ,26-28 February 2008.
24. G. H. Sonawane and V. S. Shrivastava, Utilization of bio adsorbent based on banana (*musa paradisiaca*) leaves for removal of water soluble dye : kinetic and equilibrium studies, Silver Jubilee Conference 25th National Conference of Indian Council of Chemist, Birla College, Kalyan, Mumbai,27-29 December2006.
25. G. H. Sonawane and V. S. Shrivastava, Studies on micellization and dissociation behavior of zinc state in methanol-p xylene mixture by conductance measurement ((pp-13) 23th National Conference of Indian Council of Chemist, K C College Church get, Mumbai,29-31 October 2004.

State:

26. G. H. Sonawane, V. K. Mahajan, Presented paper in North Maharashtra University, Jalgaon District Level Avishkar -2016 Organized by G. H. Rasoni Institute of Business Management, Jalgaonon 3rd January 2017.
27. G. H. Sonawane, V. K. Mahajan, Presented paper Removal of basic dye from simulated wastewater by adsorption using Annona squamosa shell: A kinetic and equilibrium studies in North Maharashtra University, Jalgaon District Level Avishkar -2014 Organized by P. O. Nahata Arts Commerce and Science College, Bhusawal on 7 October 2014
28. G. H. Sonawane and V. S. Shrivastava, Detection and identification of organic moieties in textile dye effluent Avishkar-2008, North Maharashtra University level festival, North Maharashtra University, Jalgaon, 17-18 December 2008.

Convener/ Coordinator of Workshops Organized 14

1. **Convener** of National level Conference on “The Trajectory of Indian Nationalism” by Department of Political Science, IQAC, Kisan ACS College in collaboration with Maharashtra Public Science and Public Administration on 20 August 2021 in Online mode
2. **Organizing Secretary**, a Seven day National Level workshop on “Practicing NET/SET Examination in Chemical Sciences” by Association of Chemistry Teachers and School of Chemical Sciences, KBCNMU, Jalgaon during 19 July 2021 To 25 July 2021 in Online mode followed by examination.
3. **Convener** of National level Seminar on Recent advances in Chemical Sciences for Sustainable Development (RACSSD-2019) Sponsored by KBC North Maharashtra University, Jalgaon and Organized by Department of Chemistry Kisan Arts Commerce and Science College, Parola, Dist Jalgaon on, 7 February 2019.
4. **Coordinator** of S. Y. B. Voc. Practical Examination, North Maharashtra University Jalgaon, February 2016
5. **Coordinator** for Workshop on T.Y.B.Voc. Software Development Syllabus framing Organized by Department of B. Voc. (Software Development) of Kisan Arts Commerce and Science College, Parola on 17 February, 2016
6. **Coordinator** for Workshop on PHP Hand on Practice on live Projects Organized by Department of B. Voc. (Software Development) of Kisan Arts Commerce and Science College, Parola and AIMS IT Solutions Pune on 20-21 July 2015
7. **Coordinator** of B. Voc. Degree Programme, at Kisan Arts Commerce and Science College Parola Funded by UGC, New Delhi. From June 2014

8. **Organizing Secretary** of 5th State level Workshop on Techniques in preparation of NET-SET Examinations in Chemistry Sponsored by BCUD, North Maharashtra University Jalgaon and Organized by Department of Chemistry Kisan Arts Commerce and Science College, Parola, Dist Jalgaon on, 6, February 2015
9. **Convener** of State level Workshop on Techniques in Preparation of NET- SET Examinations in Chemistry Sponsored by BCUD, North Maharashtra University Jalgaon and Organized by Department of Chemistry Kisan Arts Commerce and Science College, Parola, Dist Jalgaon on, 24-25 January 2014
10. **Convener** of State level Workshop on Techniques in preparation of NET- SET Examinations in Chemistry Sponsored by BCUD, North Maharashtra University Jalgaon and Organized by Department of Chemistry Kisan Arts Commerce and Science College, Parola, Dist Jalgaon on 31 January 2013.
11. Coordinator, Dipstambh Shishvruti Mahaabhiyan 2012-13 Examination, September 2012.
12. Coordinator, Chemistry Ability Test Examination 2011-12, Conducted by Department of Chemistry SSVPS Late Dr P.R. Ghogrey Science College Dhule January, 2012.
13. Coordinator, Chemistry Ability Test Examination 2010-11, Conducted by Department of Chemistry SSVPS Late Dr P.R. Ghogrey Science College Dhule January, 2012.
14. Convener, State level Workshop on Techniques in preparation of NET- SET Examinations in Chemistry Under UGC Career and Counseling Scheme Organized by Department of Chemistry Kisan Arts Commerce and Science College, Parola, Dist Jalgaon on 22 August 2011.

Invited / Plenary Talks - 12

1. Session Chairman, in International Virtual Conference On "Advances In Material Sciences, Applied Sciences And Engineering" organized by Departments of Physics, Navoday Shaikshanik Sanstha Dhule's, Uttamrao Patil Arts and Science College, Dahivel, Dhule on 10 September 2021.
2. Session Chairman, in National e-Conference On "Recent trends in Chemical and Physical Sciences" organized by Departments of Chemistry, Physics, Electronics, Mathematics and Computer Science of S.V.S's Dadasaheb Rawal College, Dondaicha on 1st September 2021.
3. Delivered invited talk on "Advanced Oxidation process for degradation of organic moieties." In Two days National Conference on Chemical synthesis of nanomaterials and

applications in environment organized by G.T. Patil College, Nandurbar 8-9 February 2016

4. Delivered invited talk on “Impact of nanomaterials on Biodiversity” In Two day State Level Seminar organized by KGD More Arts Commerce and Science College, Niphad Dist Nasik on Effects of Chemicals on Biodiversity on 18 to 19 January 2016.
5. Delivered invited talk on “Advanced Oxidation process for degradation of organic moieties.” In 34th Annual National conference on Indian Council of Chemists at UKA Tarsadiya University, Bardoli (Surat) Gujrat on 26 to 28 December 2015.
6. Delivered Plenary Talk in UGC Sponsored National Conference on Life Sciences Major Challenges”(LSMC-2015) Organized by Department of Zoology, B. Raghunath College, Parbhani (MS) on 3-4 September 2015, on Nanotechnology - Role in Life Sciences,
7. Delivered Lecture in Refresher Course in Environmental Science on Applications of Nanotechnology for Environmental Science Organized by Academic Staff College, University of Pune, and Z. B. Patil College Dhule on 17 November 2014.
8. Chaired a Technical Session Chemical in International Conference on “Chemical and Bioprocess Engineering-India (ICCBPE-IN-2013)” Organized by Department of Chemical Engineering, National Institute of Technology, Warangal (AP) on 16-17 November 2013.
9. Plenary Talk“ Low Cost Removal of Basic Dye from Aqueous Solution – Equilibrium and Kinetics Studies” at the National Conference on Innovative Interdisciplinary Ideas In Chemical Sciences (NCIICS-2013) Organized by Department of Chemistry, MGSSM Arts Commerce and Science College, Chopda, DistJalgaon On 8-9th February 2013.
10. Plenary Talk on Corruption and Politics in Personality Development and Soft Skills Workshop By Career and Counseling Centre and Kisan Arts Commerce and Science College, Parola, Dist Jalgaon on 2 January 2012.
11. Guest Lecture to M Sc Classes on Crystallography (CH- 210 Physical Chemistry) on Department of Organic Chemistry, North Maharashtra University, Jalgaon, From 12.3.2011 to 2.04.2011.
12. Delivered Talk as Interview-New Methods of Dye Removal on All India Radio, Akashwani Dhule on 26 August 2008.

Judge/ Examiner - 4

1. Observer for State Eligibility Test (SET) conducted by Savitribai Phule Pune University, Pune At SSVPS Arts and Commerce and Science College, Dhule, 27 December 2020.
2. Judge for University Level Poster Presentation Competition on Pollution, organized by Department of Chemistry, SRND Arts Commerce and Science College, Bhadgaon. on 29 September 2017
3. Judge for University Level Research Project Presentation Competition sponsored by Student Development, NMU, Jalgaon and organized by Vidya Wardhini Sabhas Arts Commerce and Science College, Dhule, 28 September 2017
4. Judge Oral Session in UGC Sponsored National Seminar on Recent Advances in Chemical Sciences (NSRACS-2015) Janata Mahavidyalaya, Chandrapur on 16th February 2015.
5. Judge for University Level Students Seminar in JTES Arts Commerce and Science College, Jamner on 10th January 2015

Seminar / Workshop / Conference Attended - 30

1. Workshop on T. Y. B. Sc. Chemistry Syllabus, organized by SSVPS Arts Commerce and Science College, Shindkheda Dist Dhule on 10 February 2020.
2. Workshop on Research Guides organized by IQAC, SPDM College, Shirpur sponsored by KBCNMU, Jalgaon on 7 February 2020
3. Workshop on Students Council Election organized by Department of Student Development, Kavyitri Bahinabai Chaudhari North Maharashtra University, Jalgaon and JES Z. B. Patil College Dhule. On 5 August 2019.
4. National Conference on New Horizons in NAAC Reaccreditation (NHNR-2019) organized by JES Z. B. Patil College Dhule Sponsored by KBC NMU Jalgaon. On 2 February 2019.
5. National Consultative Seminar on “Skill India- The way Forward in Higher Education” Organized by Government of Maharashtra, Tata Institute of Social Sciences, School of Vocational Education and Observer Research Foundation, Mumbai on 15 To 17 October 2018.
6. Workshop on F. Y. B. Sc. Chemistry Syllabus, SPDM Arts Commerce and Science College, Shirpur, 4 April 2018.
7. Workshop on M. Sc. Organic Chemistry Semester III and IV, SSVPS Dr P.R. Ghogrey Science College, Dhule, 12 March 2018.

8. Workshop on T. Y. B. Sc. Physical Chemistry Practical Syllabus, SPDM Arts Commerce and Science College, Shirpur, 27 February 2017
9. Workshop on T. Y. B. Sc. Physical and Analytical Chemistry Syllabus, M. J. College, Jalgaon, 21 February 2017.
10. Workshop on T. Y. B. Sc. Organic and Polymer Chemistry Syllabus, DDNB College, Bhusawal, 23 January 2017.
11. Workshop of On Screen Evaluation at Khandesh Shikshan Mandals Pratap College, Amalner by North Maharashtra University Jalgaon On 27 September 2016.
12. National Seminar on Recent trends in Environmental Protection Concern and Challenges (RTEPC-2015) organized by B.S.S.P.M. Arts Commerce and Science College, Songir, Dist Dhule on 5 October 2015.
13. Workshop on Use of ICT in Teaching and Learning Organized by IQAC of Kisan Arts Commerce and Science College, Parola on 11 September 2015.
14. National level workshop On Choice Based Credit System (CBCS) organized by UGC, New Delhi, Mahatma Gandhi Antarrashtriya Hindi Vishwa Vidyalaya, Vardha and University of Mumbai, on 10 April 2015.
15. University level NAAC Awareness workshop under National Quality Renaissance (NQRI) organized by IQAC of North Maharashtra University Jalgaon Sponsored By NAAC, Bangalore on 23-24 March 2015.
16. Workshop on F. Y. B. Sc. Chemistry Syllabus, DDNB College, Bhusawal, 3 January 2015
17. Workshop on T. Y. B. Sc. Organic Chemistry Syllabus Workshop, G. T. Patil College, Nandurbar, 6 January 2014
18. National Level Workshop on Sono process Engineering and Reactors for Nanomaterials Organized by National Institute of Technology, Department of Chemical Engineering, Warangal, A.P. on 23-24 Feb 2013
19. University Level Syllabus framing workshop on T. Y. B.Sc. Analytical Chemistry organized by Moolji Jetha College, Jalgaon on 11 December, 2013.
20. University Level Syllabus Framing workshop on T. Y. B.Sc. Physical Chemistry organized by S. P. D. M. Arts Commerce and Science College, Shirpur, Dist .Dhule on 4 December, 2013.
21. University level workshop on framing S. Y. B.Sc. Chemistry syllabus -2013 organized by G.E. T's. Arts Commerce and Science College, Nagaon, Dist .Dhule on January 29, 2013.

22. National level Seminar on Criteria For Assessment and Accreditation of Higher Education Institutions Sponsored By NAAC Bangalore and organized by Gokhley Education Society's Arts and Commerce College Jawhar Dist Thane on 29-30 June 2012.
23. State level seminar on New Horizons in Chemistry for Agriculture and Society (NHCAS-2011) at SSVPS Late Dr P.R. Ghogrey Science College Dhule on 20 December 2011.
24. University level workshop on framing F. Y. B.Sc. Chemistry syllabus -2012 organized by G T Patil College Nandurbar on 27 March 2012.
25. Academic performance indicator for Appraising Teachers - A key to maintenance and sustain standards in Higher education, Pratap College, Amalner, 24 April 2011
26. University level workshop on framing M. Sc. Organic Chemistry syllabus -2012 organized by SSVPS Late Dr P.R. Ghogrey Science College Dhule on 16 August 2011.
27. Attended Workshop on "Intellectual property rights with special reference to patents" organized by school of life science North Maharashtra University, Jalgaon, Sponsored by TIFAC-DST (Government of India) S & T Cell (Government of Maharashtra) 9 January 2004
28. 18th National Conference of Indian Council of Chemist, held at North Maharashtra University, Jalgaon, 27-29 December 1999.
29. Workshop on T. Y. B. Sc. Chemistry Syllabus Workshop, SSVPS Late P. R. Ghogrey Science College, Dhule, 27 October 1998.
30. Workshop on B. Sc. Chemistry Syllabus -Environmental Pollution and Its Control PTCE Arts Commerce and Science College, Bhadgaon, Dist Jalgaon, 17 January 1997

University Level Committee

1. Chairman, Local Inquiry Committee, Post Graduate Research Centre, Jalgaon 17.12.2021.
2. Member, Research Advisory Committee, SPDM College, Shirpur, R L College, Parola and KVPS Kisan Arts, Commerce and Science College, Parola 23.9.2019
3. Member, Research Laboratory Committee, North Maharashtra University Jalgaon, to Visit SES Arts and Science College, Bhalod, Tal Yawal on 19 July 2018.
4. Chairman, Local Inquiry Committee, North Maharashtra University Jalgaon, to Visit Shri B. M. Patil Arts and Science College, Behed, Tal Sakri on 21 Feb 2018.
5. Chairman, Local Inquiry Committee, North Maharashtra University Jalgaon, to Visit ADMSPS Arts and Science College, Mhasdi Tal Sakri on 15 Feb 2018.
6. Chairman, T. Y. B. Sc. Physical Chemistry Theory Examination, North Maharashtra University, Jalgaon March – April 2017 and 2018.

7. Member, M.Sc. Chemistry Part-I Syllabus (CH-110, CH-210, CH-P1) Core Committee, North Maharashtra University Jalgaon, Organized by Smt. P.K. Kotecha Mahila Mahavidyalaya, Bhusawal 28.1.2017
8. Member, T.Y.B.Sc. Physical Chemistry Syllabus Core Committee, North Maharashtra University Jalgaon, Organized by M.J. College Jalgaon 9.2.2017
9. Member, Pre-submission Presentation Committee, NMU, Jalgaon 2 December 2016.
10. Member, Selection Committee, S.S. Vidyadhan Arts and Science College appointed by NMU, Jalgaon 30 September, 2016.
11. Member, Faculty Approval Committee, S. E. S. College of Engineering appointed by NMU, Jalgaon 17 February, 2016.
12. Chairman, Vice-Chancellors Nominee for Pre-submission presentation Committee, NMU, Jalgaon 7 December 2015.
13. Member, Career Advancement Committee (CAS), North Maharashtra University Jalgaon at PTCES SRND Arts Commerce and Science College, Bhadgaon on 18.1.2015
14. Member, T.Y.B.Sc., Physical Chemistry Practical Syllabus Committee, North Maharashtra University Jalgaon 26.10.2014
15. Member, T.Y.B.Sc., Environmental Chemistry Syllabus Committee, North Maharashtra University Jalgaon 26.10.2014
16. Member, Bio-Diversity Management Committee, Municipal Corporation, Parola 04.02.2014
17. Chairman, Flying Squad for March 2014 Examination, North Maharashtra University, Jalgaon, 26 April to 13 May 2014.
18. Member, Flying Squad, North Maharashtra University Jalgaon, 29 .10.12 to 10. 11.12
19. Member, Local Inquiry Committee, North Maharashtra University Jalgaon, to Visit DES Commerce College Dhule on
20. Member, Local Inquiry Committee, North Maharashtra University Jalgaon, to Visit PES Kar A.M. Patil Arts Commerce and Annasaheb N. K. Patil Science College Pimpalner Tal. Sakri Dist Dhule on 18.3.2011
21. Member, Local Inquiry Committee, North Maharashtra University Jalgaon, to visit S G Patil College Sakri, Dist Dhule on 18.3.2011.
22. Member, Local Inquiry Committee, North Maharashtra University Jalgaon, to Visit SSVPS Late S. D. Patil Arts Commerce and Science College, Shindkheda Dist. Dhule on 24 March 2014.

23. Chairman, M. Sc. Physical Chemistry CH-110, CH-210 Theory Syllabus Committee, North Maharashtra University, Jalgaon 17.12.2013.
24. Chairman, T. Y. B. Sc. Physical Chemistry Practical Examination, North Maharashtra University, Jalgaon March – April 2014
25. Subject Expert, Analytical Chemistry, Career Oriented Course, SSVPS L. P. R. Ghogre Science College, Dhule .
26. Chairman, S. Y. B. Sc. Chemistry Practical Examination, March-April 2013, North Maharashtra University, Jalgaon.

Ph. D. Thesis Committee:

1. Mr. Chandrakant B. Mane BAMU, Aurangabad 07.09.2020
2. Mr. Harihar P. Dahikar RTM, Nagpur University, Nagpur 05.01.2021

Ph. D. Viva voce Committee: Chairman

1. Mr. Dnyaneshwar B. Dhangar KBCNMU, Jalgaon 29.05.2021
2. Mrs. Sarojbala P. Mahire KBCNMU, Jalgaon 17.06.2021
3. Mr. Rajendra D. Pawar KBCNMU, Jalgaon 27.11.2021

Pre Ph. D. Thesis Committee:

1. Mr. Nilkanth S. Shinde KBCNMU, Jalgaon 20.08.2020
2. Mr. Amol P. Manke KBCNMU, Jalgaon 23.11.2020
3. Mr. Atul A. Patil KBCNMU, Jalgaon 03.12.2020
4. Mr. Nilesh B. Jadhav KBCNMU, Jalgaon 26.12.2020
5. Mr. Sachin G. Shinde KBCNMU, Jalgaon 16.01.2021
6. Mr. Pritesh R. Jain KBCNMU, Jalgaon 17.03.2021
7. Rekha B. More KBCNMU, Jalgaon 03.01.2022
8. Rahul R. Karankar KBCNMU, Jalgaon 13.01.2022

Chairman and Member of College Level Committees-

Academic Year 2011-12

Academic Committee, Student Welfare Committee, Staff Academic and Faculty Development, Library Committee, Research Committee, Vocational Career Guidance,

Annual Prize Distribution, Academic Calendar Committee, UGC-Grants , Internal Quality Assurance, Vigilance Squad

Academic Year 2012-13-

Library Committee, UGC-Grants, Academic Committee, Research Committee, Vocational Carrier Guidance, College Campus Development, IQAC, Vigilance Squad

Academic Year 2013-14, 2014-15, 2015-16, and 2016-17-

Academic Committee, Science Association, Library Committee, Research Committee Vocational Carrier Guidance, placement information cell and Competitive examination, Academic Calendar Committee, UGC-Grants committee, IQAC, Vigilance Squad, Chairman – College Campus Development, Coordinator - B. Voc.

Editor / Reviewer of Journals

1. Editorial Board Member, Vasundhara- Journal of Applied Research, Association of Indian Researchers, Dhule, MS
2. Editorial Board Member, EnPress, Characterization and Application of Nanomaterials
3. Reviewer- Ultrasonics Sonochemistry
4. Reviewer- Asian Journal of Chemical and Environmental Research.
5. Reviewer- Vasundhara- Journal of Applied Research.
6. Reviewer- Journal of Molecular Liquids (Elsevier)
7. Reviewer- Environmental Technology (Taylor & Francis)
8. Reviewer- J Environmental Chemical Engineering (Elsevier)
9. Reviewer- J Nanoscience and Nanotechnology (American Scientific Publisher)
10. Reviewer- J Material Chemistry C (Royal Society of Chemistry)
11. Reviewer- ACS Omega (American Chemical Society)

Place- Parola

Dr. Guntant Hari Sonawane

Date- 10.1.2022