

DR.PRAVIN SADASHIV MORE

M.Sc., M.Phil, Ph.D.

Associate Professor

p_smore@yahoo.co.in, psmore.ism@gmail.com



Educational qualifications

- Ph.D. (Physics)** University of Pune, Year of submission Dec.2002, Awarded June 2004
Research topic: Effect of Cu addition on gas sensing properties of metal oxides and the related material characterization
- M. Phil. (Physics)** University of Pune, June 1998
Research topic: Study of SnO₂: Cu in Pellet form as gas sensor
- M. Sc. (Physics)** Pratap college Amalner, Dist. Jalgaon, North Maharashtra University April 1994.
- B. Sc. (Physics)** Pratap College, Amalner, Dist. Jalgaon, University of Pune, April 1992.

Teaching Experience

Total Teaching Experience: 21 Years

Associate Professor (Permanent) (Gazetted officer)
Department of Physics,
The Institute of Science, Madam Kama Road, Fort,
Mumbai 400032.
Selected through M.P.S.C. Gazetted officer-Class-1,
Maharashtra Educational Services

Visited abroad for paper presentation and collaborative work

1. Japan Takushinma at University of Takushima
2. S. Korea (MOU for research collaboration)
3. Sweden
4. Finland
5. United State of America
6. Mexico
7. Bahamas

Life Membership

1. Material Research Society of India (LMB2927)
2. Luminescence Society of India (LMLSI 534)

(b) Research Area/Research Interest

Specific Research area and discipline: Material Science

1. Nano Material synthesis ,
2. Composite Polymers,
3. Composite Inorganic Resistive Materials ,
4. Graphane synthesis,
5. Application study for Sensors

6. Nanocomposite inorganic material,
7. Ceramic,
8. conducting polymer,
9. porous material

(c) Publications yearwise

List of publications

1. **P.S. More**, Y.B. Kholam, S.B. Deshpande, S. R. Sainkar, S. K. Date, R. N. Karekar and R. C. Aiyer, "High-performance temperature-selective SnO₂:Cu based sensor" Materials letters Vol. 57 (2003) 2177-2184.
2. **P.S. More**, Y.B. Kholam, S.B. Deshpande, S. R. Sainkar, S. K. Date, R. N. Karekar and R. C. Aiyer, "Effect of variation of sintering temperature on gas sensing characteristics of SnO₂:Cu system (Cu = 9 wt.%) system" Materials letters,58,(2003) 205-210.
3. **P.S. More**, R. N. Karekar, S. V. Bhoraskar, N.D. Sali, R.C. Aiyer, "Introduction of δ -Al₂O₃ /Cu₂O for H₂ gas sensing application", Materials Letters 58 (2004) 1020-1025.
4. **P.S. More**, Y.B. Kholam, S.B. Deshpande, S. R. Sainkar, H. S. Potdar , R. N. Karekar and R. C. Aiyer, Unidentified H₂ gas sensing characteristics of BaTiO₃:Cu Materials Letters 61 (2007) 2891-2895
5. **P.S. More**, R.N. Karekar, R.C. Aiyer, "SnO₂: CuO Based Temperature Selective CO and H₂ Sensor" Sensor and Actuators, International Conference on Pollution IIT Kharagpur, Dec. 1997.
6. **P.S. More**, R.N. Karekar, R.C. Aiyer, "Low temperature ZnO Based H₂S Sensor" Proceedings of National Seminar on Physics and Technology of Sensors (NSPTS-5), Pune Univ., March 1998.
7. **P.S. More**, R.N. Karekar, R.C. Aiyer, "Temperature Selective SnO₂:CuO Based CO Gas Sensor", Proceedings of the National Seminar on Physics and Technology of Sensors (NSPTS-5), Pune Univ., March 1998.
8. **P.S. More**, R.N. Karekar, R.C. Aiyer, "Low temperature ZnO based H₂S sensor", Proceedings of the National Seminar on Physics and Technology of Sensors (NSPTS-5), Pune Univ., March 1998.
9. **P.S. More**, R.N. Karekar, R.C. Aiyer, "Atmospheric Chemistry and Agro Dome" Journal of Atmospheric Chemistry, IITM, 1999-2000
10. **P.S. More**, S. R. Sainkar, R. N. Karekar and R. C. Aiyer" Effect of sintering temperature on CO sensing characteristics of SnO₂:Cu Pellets NSPTS- 8, IGCAR Kalpakam Mar -2001
11. **P.S. More**, Y.B. Kholam, S.B. Deshpande, S. R. Sainkar, R. N. Karekar and R. C. Aiyer "High performance BaTiO₃:Cu for gas sensing application" Proceedings of National Seminar on Physics and Technology of Sensors (NSPTS-10), VIT, Pune, Feb 2004.
12. **P.S. More**, P. Madhu Kumar, A.B. Mandale, K.R. Patil, S. R. Sainkar, R. N. Karekar and R. C. Aiyer "Active species on SnO₂:Cu Surface for CO detection via, X-ray photoelectron spectroscopy" accepted in 13th international Workshop on The Physics of Semiconductor Devices at New Delhi in Dec. 13-17, 2005.
13. **P.S. More**, Y.B. Kholam, S.B. Deshpande H. S. Potdar, S. R. Sainkar, R. N. Karekar and R. C. Aiyer " BaTiO₃:Cu material for H₂ gas sensing application" presented in 13th international Workshop on The Physics of Semiconductor Devices at New Delhi in Dec. 13-17, 2005.

14. **P. S. More**, S. B. Deshpande, R. N. Karekar and R. C. Aiyer "Analysis and classification of the near-surface region of resistive material for gas detection via XPS" presented in international Workshop Advance Material and Technologies for Nano and oxide Electronics at IIT New Delhi in Feb. 19-22, 2007.
15. **P. S. More**, S. B. Deshpande, R. N. Karekar and R. C. Aiyer "Promising BaTiO₃: Cu (9.0 wt%) Composition for H₂ gas sensing application" presented in international Workshop Advance Material and Technologies for Nano and oxide Electronics at IIT New Delhi in Feb. 19-22, 2007.
16. **P. S. More**, S. S. Tambe, M. B. Bahirat and S. N. Thore Synthesis and characterization of natural, chemical & bio-fertilizer applied wheat crop by chemo-moisture sensor ICMAT 2007, Singapore
17. **P. S. More**, S. B. Deshpande, A.V. shelke and H. R. Khambayat Sensing and Deterioration of Edible oil in Humid region 12 (SENNET 07) 79-8 .
18. **P. S. More**, S. B. Deshpande, H. R. Khambayat and A.V. shelke "Chemo- Capacitive Sensing Characteristics of Natural Bio and Chemical fertilizer applied Soil sample (ICAMA 2007) 100-103.
19. **P. S. More et al** Effect of deposition temperature on electrical optical and structural properties of Sb₂S₃ thin film by CBD technique (ICAMA 2007)
20. **P. S. More** and S. G. Gawande Thin film Cu based LPG sensor (NSPTS-13)(2008)50-51
21. **P. S. More** and S. G. Gawande 'Preparation and characterization study of ZnO: Cu/CuO based LPG sensor' Vidarbha Journal of Science 3/2 (2008) 17-20
22. **P. S. More**, A. R. Junghare and A. U. Ubale 'Atypical character in natural ,chemical and Bio-Fertilizer Applied Wheat crop by Chemo-Moisture Sensor' Vidarbha Journal of Science 3/4 (2009) 91-93.
23. **P. S. More**, V.V. Kshirsagar, H. R. Khambayat, C.S. Ghuge, A.V. Shelke, A. R. Junghare, A.U. Ubale and S.S. Borwar 'Study of Leaf character via Biomaterial Sensor' H. Sci. (2009) 205-209.
24. A.U Ubale, Sarika A. Khapre,A.N.Bargal, S.A.Khapre and **P. S. More** "Characterization of Nano structured Indium Sulphide thin film deposited by chemical bath deposition technique" Vidarbha Journal of Science 4/1-2 (2009) 55-57.
25. **P. S. More**, H. R. Khambayat, C.S. Ghuge, A.V. Shelke, S. S. Borwar and M. A. Chaudhari 'Influence of leaf moisture on transportation in porous silicon' Vidarbha Journal of Science 5, 3/4 (2010) 69-73.
26. **P. S. More**, S. S. Patil, S. S. Borwar "Intercalative nano-composites poly (ethylene oxide)/cu for LPG sensing application" Digest Journal of Nano-materials and Bio Structures Vol. 5/1 (2010) 107 - 111
27. **P. S. More**, S.G. Gawande, M. A. Chaudhari, R.C.Aiyer and R.N.Karekar Fabrication and Characterization of porous silicon as a leaf moisture sensing (NSPTS-15) (2010)
28. **P. S. More**, Y. B. Kholam, S. G. Gawande, H. R. Khambayat C. S. Ghuge, A. V. Shelke and S.S. Borwar Peculiarity character of polyaniline (PAni) modified with PEO for gas sensing application (NSPTS-15) 2010 C43-1-C43-3
29. **P. S. More**, A. R. Junghare, P. M. Kshrisager, and S.V. Sabale 'Screen printed Poly (Ethylene Oxide): ZnO/CuO Interactive Nano-composite for Acetone and Methanol sensing Application' vidarbha Journal of Science 5/1-2 (2010) 63-65

30. **P. S. More** , S.G. Gawande, C. S. Ghuge, S. S. Borwar, H. R. Khambayat , A. V. Shelke “Polymer embedded Zirconium oxide based LPG gas sensor” published in proceeding NCATMSA-2011 (2011) 157-169
31. **P. S. More** , S. G. Gawande, C. S. Ghuge, S. S. Borwar, H. R. Khambayat , A. V. Shelke “Comparative study of Intermolecular interaction by Acoustic properties of Zn/CuCl₂ in mixed ethanol for gas sensing application published in proceeding NCATMSA-2011 (2011)
32. V. M. Raut, **P. S. More**, Y. B. Kholam, Pankaj Koinkar “Synthesis And Characterization Of Luminol Persulphate Chemiluminescence In Aqueous Amines International Journal Of Modern Physics: B Conference Series. Vol. 6 (2012) 162–165
33. **P. S. More**, Y. B. Kholam, Pankaj Koinkar, N. D. Sali, P. N. Shelke, S. S. Borwar “ Polyethylene Oxide-Cu Composite Thick Films For LPG Sensing” International Journal Of Modern Physics B, Vol. 25 (31) (2012) 4199-4203
34. P. N. Shelke Y. B. Kholam, S. D.Ggunjal, M.T. Sarode, **P. S. More**, S.R. Jadkar, M. G. Takwale, K. C. Mohite “Optical Properties Of Electrochemically Deposited 1-D Interlinked Nanowired Co₃O₄ Thin Films” International Journal Of Modern Physics B Vol. 25 (31) (2012) 4281-4184
35. P. N. Shelke, Y. B. Kholam, P. N. Pabrekar, **P. S. More**, A. M. Datir, S. D. Chakane, K. C. Mohite, Pankaj Koinkar “Synthesis and characterization of Co₃O₄ powders for humidity sensing” International Journal of Modern Physics: Conference Series Vol. 6 (2012) 197-202
36. Y. B. Wankhede, S. B. Kondawar, S. R. Thakare, **P. S. More** “Synthesis and characterization of silver nanoparticles embedded in polyaniline nanocomposite” Adv. Mat. Lett. 2013, 4(1), 89-93 DOI: 10.5185/amlett.2013.icnano.108
37. **P.S. More**, Y.B. Kholam and S.G. Gawande “Synthesis and Study of Electrical Properties of Di Ethylene Glycol Embedded ZrO₂ Films as a Gas Sensor” Journal of Research Updates in Polymer Science, 2012, 1(2), 72-74
38. **P. S. More** and C. S. Ghuge “Unidentified characteristics of Porous alumina with chemical bath deposited platinum films for humidity sensor” NCFS (2012) 153-155
39. **P.S.More**, Y.B.Kholam, R.S.Sonone and C.S. Ghuge “Room temperature H₂S gas sensing charecteristics of Platinum (Pt) and Palladium (Pd) Coated porous alumina (PoAl) Thick film ISPTS-1 Pune (2012) 135-136
40. **P.S. More**, Y.B. Kholam, C.S. Ghuge And R.S. Sonone Peculiarities Of Surface Doping With Poly-Ethylene Oxide Thin Film On Porous Silicon Asian Journal Of Chemistry; Vol. 25, Supplementary Issue (2013) S378-S380
41. **P. S. More** “Thick/Thin film preparation by A chemical Spray Pyrolysis method, Journal of optoelectronics and Bio Medical Materials Vom-5 (3) **(Accepted)**.”
42. **P. S. More and** A.V. Shelke “Synthesis and Analysis of optical transmission/ capacitance bridge system for oil deterioration identification” **International Journal of Instrumentation Science, 2(2): (2013) 41-45.**
43. **P.S. More**, R.W. Raut,C.S. Ghuge “Room temperature H₂S gas sensing characteristics of platinum (Pt) coated porous alumina (PoAl) thick films” **Journal of Materials Chemistry and Physics Volume 143, Issue 3, 14 February 2014, Pages 1278–1281**

44. Shrikant H. Nimkar, Subhash B. Kondawar, **Pravin S. More** Polyaniline/TiO₂ Nano composite Thin Film Based Carbon Dioxide Gas Sensor **International journal of Research in Bioscience, Agriculture and Technology (2014) Issue-2, Vol-2 Pages13-20**
45. A.V. Shelke, **P. S. More**, Y. B. Kholam “Edible oil deterioration analysis via optochemical spectrum analyzer” **International Journal of Chemical and Physical Science (ISSN:2319-6602) Vol.4, (2015) Page 93-103.**
46. C. S. Ghuge, **P. S. More**, Y. B. Kholam “ Pt embedded porous aluminum based gas sensor”, **International Journal of Chemical and Physical Science (ISSN:2319-6602) Vol.4 (2015) Page 104-109.**
47. H. R. Khambayat, **P. S. More**, M. T. Sarode, Y. B. Kholam “Soil character analysis via. Wide band optical wave guide sensor” . **International Journal of Chemical and Physical Science (ISSN:2319-6602), Vol. 4,(2015), Page 110-114**
48. P. S. More, Y. B. Kholam “Doping effects on the response of metal organic thin film sensor” , **International Journal of Chemical and Physical Science (ISSN:2319-6602),Vol.4 (2015), Page 118-124.**
49. **Pravin S More**, Anil V Shelke and Dattatray J Late Rapid Characterization of Oxidative Deterioration in Edible Oil” international Journal of Food and Dairy Technology, Volm 4/1, March-April, 2015 e-ISSN:2321-6204, p-ISSN:2347-2359, 7-11.
50. **Pravin S. More**, Dattatray J. Late, Subhash B. Kondawar “ Classification and Study of near surface region of active material for gas detection using X-Ray photoelectron spectroscopy , Adv. Mater. Lett. 2016, 7(4), 330-336
51. **Pravin S. More**, Hiranand R. Khambayat Bandoba T.Nikam“ PEO embedded planer optical waveguide sensor for unidentified soil character analysis “**Adv. Mater. Letter, 2017, 2(3), 167-170.** DOI.10.5185/amp2017/307
52. **Pravin. S. More**, Dattatray. J. Late, Shivani. A. Singh “Investigation of PEG embedded WO₃-Graphene Thin film sensor” **Adv. Mater. Letter 2017, 2(8), 506-509.**DOI.10.5185/amp2017/807.
53. **Pravin S. More**, S. A. Singh, B. S. Nadekar, S. R. Gadakh “ Unidentified Character of Fe-Modified Graphene and its effect on gas sensing activity” **International Journal of Chemical and Physical Science, Vol. 7 special issue (part-II), 2018.** ISSN: 2319-6602. 597-601
54. **Pravin S. More**, S. A. Singh, N. D. Sali “ Effect of LPG gas sensing on Rb- Modified graphene,” **International Journal of Chemical and Physical Science Vol. 7 special issue (part-II), ISSN: 2319-6602., (2018), 675-679**
55. **Pravin S. More**, “ In situ spectroscopy study of composite as surfaces supported catalysts viz a gas sensor”, International conference on Nanotechnology for human welfare proceedings., ISBN: 978-93-87317-98-7 (2018)
56. **Pravin S. More**, Nitin D. Sali, S.V. Bhoraskar, “ Effect of microwaves on surface wet ability on various materials. International conference on Nanotechnology for human welfare proceedings 2018. ISBN: 978-93-87317-98-7

57. **P. S. More**, N. S. Thakur, S. B. Kondwar “Studying the effect of Cu on physical and elastic properties of ZnO using non destructive ultrasonic method ” . **International Journal of Chemical and Physical Science (ISSN:2319-6602), Vol. 7,(2018), Page 680-684**

58. **P. S. More^{1*}, C.S. Ghuge¹** Room temperature synthesis of colloidal palladium nanoparticles thin film formation on porous aluminium Presented in icmtech.2016 **Adv. Mater. Letter (In Press)**

(d) Invited/Conference Talks

1. Participated as a Demonstrator in Department of Space science, University of Pune.
2. Participated in Dr. Lagu lecture series as a referee in S.P. College, Pune
3. Participated in Science Exhibition to guide the students in S.P. College, Pune
4. Participated Raman Memorial Conference as a member In Department of Physics, Pune
5. Participated in research student seminar “SUSUVWAD” at Department of Physics, University of Pune.
6. Participated in Interface meeting to evaluate proposals under carrier oriented programs scheme on 21/02/2006
7. Invited and Participated as a guest lecturer in Inamdar Art, commerce, Science college Pune on Physics of Viscosity
8. Participated in seminars conducted by Department of Physics as a guide and referee for M. Sc. Physics students
9. Participated as member and in charge of admission committee for B.Sc.-I
10. Participated and Worked as a Presiding Officer in General Elections
11. Participated and worked as External Examiner at Dr. Baba sahib Marathwada University Aurangabad for Undergraduate B. Sc. Practical Examination.
12. Participated and worked as External and Internal Examiner at S.G.B. Amravati University, Amravati
13. Participated and worked as Paper valuator at S.G.B. Amravati University, Amravati
14. Member, Organizing Committee, Student council, Staff club Government Vidarbha Institute of Science and Humanities, Amravati 444 604.
15. Organized and work as coordinator in one Work Shop on Career opportunities in Science dated 3rd May 2012
16. Organized and work as co-coordinator in Seven days Work Shop on Hands on training on Analytical Instrument 2012-2013

(e) Paper Presentation in National/International Conferences/Symposia

1. Participated and presented research paper in International Conference on Pollution IIT Kharagpur, 29-31 Dec. 1997.
2. Participated and presented research paper in National Workshop on Atmospheric chemistry (NWAC-1999) IITM Pune 14 Oct-1999.
3. Participated and presented research paper in National workshop on Solid state sensors: Theory and Application sponsored by DST and Government of India at University Kolhapur, dated 16-28 June 2003.
4. Participated in State level workshop on NAAC at Haribhi Desai college dated 26 Oct. 2002.
5. Participated in State level workshop on B.Sc. Physics practical's at Deogiri College Aurangabad 19 Aug. 2004.
6. Participated in State level workshop on B.Sc. Physics practical's at Maulana Azad College Aurangabad 16 Sep. 2005.
7. Participated and presented research paper in International Conference on Advance Material and technologies for Nano and Oxide Electronics 19-22 Feb. 2007, IIT New Delhi Venue India Habitat Center.
8. Participated and presented research paper by Co-author in International conference on materials of advance technology (ICMAT -2007) Singapore.
9. Workshop on Neutrons as probes of condensed Matter at B.A.R.C. Mumbai organized by UGC-DAE Consortium for Scientific research Mumbai center on 12/01/2008-14/01/2008.
10. Participated and presented research paper in International conference on hands on Science, Science city, Ahmadabad, 27-31 Oct. 2009.
11. Participated, Worked as SESSITION CHAIR and presented research paper in International conference on Advance Material and Development Program 2011 Tokushima University, Tokushima city, OSAKA, JAPAN 15-18 July 2011.
12. Organized and work as coordinator in one Work Shop on Career opportunities in Science dated 3rd May 2012.
13. Participated and presented research paper in International Conference on Physics and Technology of Sensor (ISPTS-1), 8-10 March 2012 at Pune.
14. Participated and attained a work shop on Modern Trends in Polymer Science and Technology 3 - 4 April 2013 at Institute of Chemical Technology.
15. Participated and presented research paper in International Conference on Nano Science and Nano Technology (ICONN 2013) at SRM University ,Kattankulathur, Paper entitled Peculiarity of Surface doping With PEO Thin Film on Porous Silicon" during 18-20 March 2013 at SRM University.
16. Participated and presented research paper in International Conference on recent trends and challenges in science and technology (RTCST-2014), V.K. Patil College, Pravara Nager, Dist Ahemednager , 20-22-August 2014 , Metal Organic Film deposition : A new Approach.

17. Participated and presented research paper in International Conference on Advance Techniques & Devices in Mathematics and Physical Science 23-25 January 2015 at SRM University.
18. Participated and presented research paper entitled “Edible oil deterioration analysis via optochemical spectrum analyzer”, Presented in Two Day State Level Seminar on “Emerging Trends in Physics (ETP - 2015)” 6th - 7th February 2015 at Anantrao Pawar College Pirangut, Tal. - Mulshi, Dist. - Pune, Pune - 412 115.
19. Participated and presented research paper entitled “ Pt embedded porous aluminum based gas sensor, Presented in Two Day State Level Seminar on “Emerging Trends in Physics (ETP - 2015)”_6th - 7th February 2015, Anantrao Pawar College Pirangut, Tal. - Mulshi, Dist. - Pune, Pune - 412 115.
20. Participated and presented research paper entitled “Soil character analysis via. wide band optical wave guide sensor” . in Two Day State Level Seminar on “Emerging Trends in Physics (ETP - 2015)” 6th - 7th February 2015, Anantrao Pawar College Pirangut, Tal. - Mulshi, Dist. - Pune, Pune - 412 115.
21. Participated and presented research paper entitled “Doping effects on the response of metal organic thin film sensor, Presented in Two Day State Level Seminar on “Emerging Trends in Physics (ETP - 2015)”_6th - 7th February 2015, Anantrao Pawar College Pirangut, Tal. - Mulshi, Dist. - Pune, Pune - 412 115.
22. Participated and presented research paper entitled “ Classification and Study of near surface region of active material for gas detection using X-Ray photoelectron spectroscopy, **Advanced Materials World Congress -August 2015, Sweden.**
23. Participated and presented research paper entitled “ PEO embedded planer optical waveguide sensor for unidentified soil character analysis “**Presented in International Conference on Materials Science & Technology (ICMTech -2016).**
24. Participated and presented research paper entitled “Room temperature synthesis of colloidal palladium nanoparticles thin film formation on porous aluminium” **Presented in International Conference on Materials Science & Technology (ICMTech -2016).**
25. Participated and presented research paper entitled “Investigation of PEG embedded WO₃-Graphene Thin film sensor” **Presented in International Conference on Materials Science & Technology (ICMTech -2016).**
26. Participated and presented research paper entitled “In situ FT/IR spectroscopic study of Cu-SnO₂ nano composite *as* surfaces supported catalyts and its characteristics as a gas sensor, **American Advanced Materials Congress 4-9 Dec 2016, Miami USA**
27. Participated and presented research paper entitled “In situ spectroscopy study of composite as surfaces supported catalyts viz a gas sensor”, International conference on Nanotechnology for human welfare proceedings., ISBN: 978-93-87317-98-7 (2018) 1st -3rd Feb-2018 at H. V. Desai College, Pune

28. Participated and presented research paper entitled “ Effect of microwaves on surface wet ability on various materials. International conference on Nanotechnology for human welfare proceedings 2018. ISBN: 978-93-87317-98-7 1st -3rd Feb-2018 at H. V. Desai College, Pune

(f) Projects (Completed & Ongoing)

1. One UGC Minor research Project Completed:

Entitled “Detection of moisture and pigments in crop and its characterization for agricultural application” for Year 2007-2009. MRP No. 47-225/07 dated 16/01/2008

2. UGC sponsored research Project Completed:

Entitled “Study, Synthesis and Physical characterization of metal /metal oxide on gas Sensing properties File. No.47-1367/10 date 22/09/2011”

3. UGC Major Research Project (Rs. 11.79 Lakh)

Entitled “Synthesis and Fabrication of Metal Oxide based LPG and CO Investigator' gas Sensor” for Year 2013-2015 F. No. 42-800 / 2013 (SR) dated 31 Mar 2013

4. Rajiv Gandhi Science and Technology commission (On Going)

(Proposed 1.21 Cr , Approved Rs. 86,10,400 Lakh)

Entitled “ Fabrication and Development of In situ Characterization of Soil Element Determination System” F. No RGSTC/File-2016/DPP-146/CR-36

Project Sanction letter Received : 19 March 2018

(g) Research Guidance (Ph.D. & Msc by Research)

M. Phil. : 10 (Awarded)

Ph. D. : 03 (Awarded), 01 (Submitted) and 03 (presently working)

(h) Activities

17. Participated as a Demonstrator in Department of Space science, University of Pune.

18. Participated in Dr. Lagu lecture series as a referee in S.P. College, Pune

19. Participated in Science Exhibition to guide the students in S.P. College, Pune

20. Participated Raman Memorial Conference as a member In Department of Physics, Pune

21. Participated in research student seminar “SUSUVWAD” at Department of Physics, University of Pune.

22. Participated in Interface meeting to evaluate proposals under carrier oriented programs scheme on 21/02/2006

23. Invited and Participated as a guest lecturer in Inamdar Art, commerce, Science college Pune on Physics of Viscosity

24. Participated in seminars conducted by Department of Physics as a guide and referee for M. Sc. Physics students
25. Participated as member and in charge of admission committee for B.Sc.-I
26. Participated and Worked as a Presiding Officer in General Elections
27. Participated and worked as External Examiner at Dr. Baba sahib Marathwada University Aurangabad for Undergraduate B. Sc. Practical Examination.
28. Participated and worked as External and Internal Examiner at S.G.B. Amravati University, Amravati
29. Participated and worked as Paper valuator at S.G.B. Amravati University, Amravati
30. Member, Organizing Committee, Student council, Staff club Government Vidarbha Institute of Science and Humanities, Amravati 444 604.
31. Organized and work as coordinator in one Work Shop on Career opportunities in Science dated 3rd May 2012
32. Organized and work as co-coordinator in Seven days Work Shop on Hands on training on Analytical Instrument 2012-2013
33. Organized and work coordinator in Two day National conference 2017-2018
- 34.

(i) Topics taught

1. Physics of Electrodynamics and Electrostatics '
2. Physics of Solid state devices
3. Physics solid state
4. Physics of Statistical Mechanics