



CURRICULUM VITAE

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Educational Record:

Exam Passed	University/ Board	Years of Passing	Division	Subjects offered	Specialization
B.Sc.	Amravati University, Amravati	1996	First	Physics, Chemistry, Mathematics	-
M.Sc.	Amravati University, Amravati	1998	First	Physics	Solid State Physics
Ph.D.	Sant Gadge Baba Amravati University, Amravati	2008	-	Physics, Faculty of Science	Materials Science
MS-CIT	MKCL, Mumbai.	2002	First	Information Technology	-

Topic of Ph. D.: *Gas Sensitive Electrical Conduction of Polypyrrole Modified SnO₂-Al₂O₃ Sensors.*

Other Examinations qualified:

GATE	Feb-2002, Indian Institute of Technology (IIT), Pawai, Mumbai, India.
SET	Feb-2002. Pune University, Pune, India.
JEST (JRF)	Feb-2001. Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, India.
JEST (JRF)	Feb-2000. Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, India.

Employment History:

Name of institution	Post occupied	Duration
Department of Physics, Sant Gadge Baba Amravati University, Amravati	Assistant Professor	From Oct 8, 2008 (A.N.)
Department of Physics, Government Vidarbha Institute of Science & Humanities, Amravati	Assistant Professor/Lecturer	Aug 26, 2002 to Oct 8, 2008
Department of Physics, Shri Shivaji Science College, Amravati	Lecturer on CHB	Jun 20, 2002 to Aug 25, 2002.

Administrative Experience:

Name of institution	Post occupied	Duration
Fabrication Laboratory, Sant Gadge Baba Amravati University, Amravati	Coordinator	From Jul 9, 2012.

Subjects taught:

Atomic and molecular Physics, Mathematical Physics, Statistical Mechanics, Solid State physics, Electrodynamics, Plasma Physics, Nuclear physics, Basic Electronics, Nano Science and Nano Technology.

Contribution to educational innovation & design of new curricula and courses:

1. Modified/revised the course contents in Paper 3PHY5(ii): Lab course on condensed matter physics in the syllabus of MSc Sem-III of Sant Gadge Baba Amravati University, Amravati, Jul 19, 2015.
2. Restructured/revised the course contents for Papers: (i) Atomic, Molecular and Nuclear Physics, (ii) Magnetic Materials and (iii) Dielectric and ferroelectric materials in the syllabus of M.Sc. Physics of School of Physical Sciences, Solapur University, Solapur, Jan 13, 2014.
3. Designed and modified the course contents in Statistical Mechanics for designing new syllabus for M.Sc. Physics with effect from 2012-2013, SGB Amravati University, Amravati.
4. Designed and modified the course contents in Atomic & Molecular Physics for designing new syllabus for M.Sc. Physics with effect from 2012-2013, SGB Amravati University, Amravati.
5. Designed and contributed model questions in the topic Atomic, Molecular and Nuclear Physics for B.Sc. Physics, National Workshop on 'Preparation of Question Bank' held during; July 2-4; Aug 9-10 and Sep 30-Oct2, 2010.
6. Actively Participated in One Day Workshop in 'Teaching Skills', PG Dept of Education, Sant Gadge Baba Amravati University, Amravati, Oct 17, 2012.
7. Participated and design Role Play in Mission 10X Workshop on 'High Impact Teaching Skills', Sant Gadge Baba Amravati University, Amravati, May 3-7, 2010.
8. Actively participated in One Day Workshop on Impedance Analyzer Sant Gadge Baba Amravati University, Amravati, Feb 9, 2010.
9. Actively Participated in A Workshop on Pure Physics Curricula in Contemporary Universities: Challenges and Innovation & Convention of Physics Teachers, Vidya Bharati Mahavidyalaya, Camp, Amravati, April 26, 2009.
10. Contributed model questions for Basic Electronics and actively Participated in First Conference of Electronics Teachers and Workshop on Upgradation of Curriculum. Brijlal Biyani Science College, Amravati, Mar 20, 2005.

11. Contributed Two Units of B.Sc. II Paper I for Physics Book and actively Participated in Workshop on Scope & Limitations of B.Sc.III (Physics) Syllabus, Dept. of Physics, Amravati University, Amravati, Jan 30, 2005.
12. Actively participated and assigned Two Units of B.Sc. II Paper I for Physics Book in Workshop on Scope & Limitations of B.Sc.II (Physics) Syllabus, Shri Shivaji Science College, Akot, Oct 3, 2004.
13. Prepared Scope and Limitation of Paper-I of B.Sc.-I in Workshop on Scope & Limitations of B.Sc.I (Physics) Syllabus, Arts, Science & Commerce College, Chikhaldara, Aug 17, 2003.
14. Preparation of participatory learning modules for NET/SET/GATE examinations.
13. Use of ICT in T/L process with computer-aided methods like PowerPoint presentations and simulation from e-resources.
14. Involved in UGC's remedial classes teaching.

Current Research Areas:

Conducting Polymers - Nanocomposites – Quantum Dots - Sensors – Conducting Glasses - Thin Films –Photovoltaic Cells-Acoustical Properties of Nanofluids.

Research Experience:

Actively engaged in research; 7 years research experience at Government Vidarbha Institute of Science & Humanities, Amravati (including Ph.D. work from 2003 to 2007) and 7+ years of teaching and research at Deptt. of Physics, Sant Gadge Baba Amravati University, Amravati.

Research Project(s):

S.N.	Project title	Agency	Period From – To	Total Outlay (in Lakhs)	Status
1.	ORGANO/BIO-POLYMER COMPOSITES: SYNTHESIS, CHARACTERIZATION AND DEVELOPMENT OF CHEMIREISTORS FOR SENSING OF GLUCOSE AND UREA	ISRO, Bangalore	2013-2016	18.00	Submitted
2.	FIST-2010 LEVEL-1 PROPOSAL MEMBER, PROJECT IMPLEMENTATION GROUP	DST, New Delhi	2010-2015	35.00	1 st installment 33 lakh utilized
3.	STUDY OF GAS SENSING PROPERTIES OF CONDUCTING POLYMER NANOCOMPOSITES	UGC, New Delhi. F NO.: 37-565/2009 (SR)	01-02-2010-31-01-2012	1.55	Completed

Awards/Honors:

1. Received 'Best Poster Presentation Award' National Conference on Novel Synthesis of Advanced Materials and Their Applications (NSAMA-2015), Department of Physics, Arts, Commerce & Science College, Maregaon (Road), Dist. Yavatmal, Feb 16, 2015.
2. Appreciated as 'Best Participant' in Refresher courses in Basic Science (Physics), UCG-Academic Staff College, Sant Gadge Baba Amravati University, Amravati, from Oct. 27-Nov. 15, 2014.
3. Awarded 'Recognized Elsevier Reviewer Status', The Editors of Materials Science in Semiconductor Processing, Elsevier, Amsterdam, Netherlands, Aug 2014.
4. Executive Editor, Nanotechnology and Nanoscience, ISSN: 0976-7630 & E-ISSN: 0976-7649, Bioinfo Publications (ISO 9001:2008 certified), Navi Mumbai, 410210, India, Aug 9, 2013.
5. Editorial Advisors, International Journal of Innovative Research and Studies (ISSN: 2319 - 9725), Greater Kolkata College Of Engineering & Management, Kolkata, India.
6. Editorial Board Member, Physics and Materials Chemistry, Science and Education Publishing Co., 10 Cheswold Blvd., #1D, Newark, De, 19713, USA, Dec 2012.
7. Editorial Board Member, International Journal of Computer Science and Application (IJCSA), Science and Engineering Publishing Company, 11 Meadows, Terre Haute, IN 47802, USA, July 2012.
8. Editorial Board Member, Research Journal of Recent Sciences (ISSN 2277 - 2502), 427, Palhar Nagar, RAPTC, VIP-Road, Indore-452005 (MP) INDIA, Jun 2012.
9. Fellow, International Science Congress Association (ISCA-FM-084), Indore-2, MP, India, April 2012.
10. Received 'Best Poster Presentation Award' National Seminar on Current Trends in Physical Sciences & Electronics Research-2010, Deptt. of Physics & Electronics, Shri Shivaji College of Arts, Commerce and Science, Akola, March 28, 2010.
11. Vice-President, Ramkrishna-Vivekanand Vachanalaya, Amravati (Aug 2010-13).
12. Top 25 hottest article, Rank-22, Chemistry, Sensors and Actuators B: Chemical Aril to June 2008.
13. Top 25 hottest article, Rank-07, Chemistry, Sensors and Actuators B: Chemical January to March 2008.
14. Top 25 Most Downloaded Article, Rank-05, Sensors & Transducers Journal, June 2007.

Training Courses, TLE Technology Programmes, Faculty Development Programmes:

S.N.	Programme	Duration	Organized by	Grade	Remark
1.	Refresher courses in Basic Science (Physics)	27-10-2014 to 15-11-2014	UCG-Academic Staff College, Sant Gadge Baba Amravati University, Amravati.	A	Appreciated as a Best Participant
2.	Refresher courses in Computational Science (Physics)	24-9-2012 to 15-10-2012	UCG-Academic Staff College, Sant Gadge Baba Amravati University, Amravati.	A	
3.	Orientation Course: 10 th Orientation Course	13-6-2011 to 09-7-2011	UCG-Academic Staff College, Sant Gadge Baba Amravati University, Amravati.	A	

Citations:

1. **348** citations as on Oct 2015, according to the Google Scholar Data System.
2. h-index of **10** as on Oct 2015, according to the Google Scholar Data System.
3. i10-index of **10** on Oct 2015, according to the Google Scholar Data System.

Books Published (Articles/Chapters published, Editor):

1. Synthesis and gas sensing application of conducting polymer-Polypyrrole, accepted for publication in the book "Conducting Polymers", ISBN 978-953-307-645-4, July 14, 2011.
2. Editor, Electronic Proceedings of One-Day Workshop, (April 8, 2011).

Patent(s)

1. "A PROCESS FOR THE PREPARATION OF GRAPHENE PASTE"
S.A.Waghuley
(Patent filed & published) *Patent application No. 1839/MUM/2012, C.B.R. No. 8312, Jun 26, 2012. International classification : C01B31/00, H01M4/00, The Patent Office Journal, Issue No. 41/2012, Publication Date : 12/10/2012, 16839.*

1. ROOM TEMPERATURE MOLECULAR INTERACTIONS IN $\text{CdCl}_2/\text{H}_2\text{C}_2\text{O}_4$ NANOFLUID USING ACOUSTICAL STUDIES K. R. Nemade, **S. A. Waghuley**
Indian Journal of Pure & Applied Physics 53 (10) (2015) 670-674.
2. SYNTHESIS AND UV-Vis SPECTROSCOPIC STUDY OF TiO_2 NANOPARTICLES
P.B. Rathod, **S.A. Waghuley**
International Journal of Nanomanufacturing 11 (3/4) (2015) 185-193.
3. DC CONDUCTIVITY AND DENSITY MEASUREMENTS IN LITHIUM BORATE GLASSES
D. T. Dongare, R. V. Barde, A. B. Lad, **S. A. Waghuley**
International Journal of Chemical and Physical Sciences 4 (2015) 64-68.
4. THERMAL AND ELECTRICAL PROPERTIES OF $60\text{V}_2\text{O}_5\text{-}5\text{P}_2\text{O}_5\text{-(}35\text{-x)B}_2\text{O}_3\text{-xCeO}_2$ ($1 \leq x \leq 5$) GLASSES
R. V. Barde, **S. A. Waghuley**
Bulletin of Materials Science 38 (2) (2015) 557–563.
5. BAND GAP ENGINEERING OF CuS NANOPARTICLES FOR ARTIFICIAL PHOTOSYNTHESIS
K. R. Nemade, **S. A. Waghuley**
Materials Science in Semiconductor Processing 39 (2015) 781–785.
6. PHOTOVOLTAIC STUDY OF CHEMICALLY DERIVED TITANIUM DOPED POLYTHIOPHENE COMPOSITES
S. R. Takpire, **S. A. Waghuley**
Journal of Electronic Materials 44 (8) (2015) 2807-2812.
7. INVESTIGATION OF THE CONDUCTIVITY OF THE VANADIUM PHOSPOBORATE GLASS SYSTEM
R. V. Barde, K. R. Nemade, **S. A. Waghuley**
Optoelectronics and Advanced Materials – RC 9 (3-4) (2015) 517 – 519.
8. SYNTHESIS OF COPOLYMER IN PTh-co-PANi-Ti SYSTEM FOR PHOTOVOLTAIC APPLICATION
S. R. Takpire, **S. A. Waghuley**
Materials Letters 150 (2015) 9–11.
9. COMPARATIVE STUDY OF CARBON DIOXIDE SENSING BY Sn DOPED TiO_2 NANOPARTICLES SYNTHESIZED BY MICROWAVE ASSISTED AND SOLID STATE DIFFUSION ROUTE
K. R. Nemade, **S. A. Waghuley**
Applied Nanoscience 5 (2015) 419–424.

10. COMPLEX OPTICAL STUDIES ON CONDUCTING POLYINDOLE AS-SYNTHESIZED THROUGH CHEMICAL ROUTE
N.S. Wadtkar, **S.A. Waghuley**
Egyptian Journal of Basic and Applied Sciences 2 (2015) 19- 24.
11. PHOTOCATALYTIC STUDY OF ALUMINA-ZIRCONIA CERAMIC NANOCOMPOSITE SYNTHESIZED BY SPRAY PYROLYSIS
K. R. Nemade, R. V. Barde, **S. A. Waghuley**
Ceramics International 41 (3) B (2015) 4836–4840.
12. AC CONDUCTIVITY AND DIELECTRIC RELAXATION IN V_2O_5 - P_2O_5 - B_2O_3 GLASSES
R. V. Barde, K. R. Nemade, **S. A. Waghuley**
Journal of Asian Ceramic Societies 3 (2015) 116–122.
13. CARBON DIOXIDE GAS SENSING BY Ag/TiO_2 COMPOSITES PREPARED BY SOLID STATE DIFFUSION AND CHEMICAL ROUTES
K. R. Nemade, **S. A. Waghuley**
Journal of the Chinese Advanced Materials Society 3 (1) (2015) 9-16.
14. STUDY OF STRUCTURE AND OPTICAL FOR CHEMICALLY SYNTHESIZED TITANIUM DIOXIDE NANOPARTICLES
P.B. Rathod, K.R. Nemade, **S.A.Waghuley**
International Journal of Chemical and Physical Sciences 4 (2015) 491-495.
15. LIQUIFIED PETROLEUM GAS SENSING APPLICATION OF ZnO QUANTUM DOTS LOADED GRAPHENE COMPOSITE
K. R. Nemade, **S. A. Waghuley**
International Journal of Chemical and Physical Sciences 4 (2015) 251-254.
16. SYNTHESIS OF CeO_2 NANOPARTICLES USING FLAME ASSISTED SPRAY PYROLYSIS AND SOLID STATE DIFFUSION ROUTES
K. R. Nemade, **S. A. Waghuley**
Rare Metals 34(1) (2015) 6–11.
17. COMPLEX OPTICAL STUDY OF V_2O_5 - P_2O_5 - B_2O_3 -GO GLASS SYSTEMS BY ULTRAVIOLET-VISIBLE SPECTROSCOPY
K. R. Nemade, R. V. Barde, **S. A. Waghuley**
Optical Materials 40 (2015) 118–121.
18. TRANSPORT PROPERTIES OF RARE EARTH CeO_2 DOPED PHOSPO VANADATE GLASS SYSTEMS
R. V. Barde, **S. A. Waghuley**
Journal of the Chinese Advanced Materials Society 2 (4) (2014) 273-283.
19. STUDY OF CERIUM DOPED POLYANILINE COMPOSITES FOR RESISTIVE TYPE CO_2 GAS DETECTION
K. R. Nemade, **S. A. Waghuley**
Walailak Journal of Science and Technology 11(9) (2014) 763-767.

20. PHOTOVOLTAIC PROPERTIES OF GRAPHENE-TiO₂ NANOCOMPOSITE
K. R. Nemade, **S. A. Waghuley**
International Journal of ChemTech Research 6 (3) (2014) 2045-2047.
21. PHOTOVOLTAIC APPLICATION OF Ti DOPED PANi-PTh COPOLYMER
S. R. Takpire, **S. A. Waghuley**
International Journal of ChemTech Research 6 (3) (2014) 1830-1832.
22. HIGHLY RESPONSIVE CARBON DIOXIDE SENSING AT LOW OPERABLE TEMPERATURE BY CHEMICALLY SYNTHESIZED GRAPHENE/Al₂O₃ QUANTUM DOTS COMPOSITES
K. R. Nemade, **S. A. Waghuley**
Indian Journal of Physics 88(6) (2014) 577–583.
23. SYNTHESIS OF MgO NANOPARTICLES BY SOLVENT MIXED SPRAY PYROLYSIS TECHNIQUE FOR OPTICAL INVESTIGATION
K. R. Nemade, **S. A. Waghuley**
International Journal of Metals (2014) Article ID 389416, 4 pages.
24. PREPARATION OF MnO₂ IMMOBILIZED GRAPHENE NANOCOMPOSITE BY SOLID STATE DIFFUSION ROUTE FOR LPG SENSING
K. R. Nemade, **S. A. Waghuley**
Journal of Luminescence, 153(2014)194–197.
25. IN SITU SYNTHESIS OF GRAPHENE/TIN DIOXIDE QUANTUM DOT COMPOSITES FOR CHEMIREISTIVE HYDROCARBON GAS SENSING
K. R. Nemade, **S. A. Waghuley**
Materials Science in Semiconductor Processing 24 (2014) 126-131.
26. OPTICAL AND GAS SENSING PROPERTIES OF CuO NANOPARTICLES GROWN BY SPRAY PYROLYSIS OF CUPRIC NITRATE SOLUTION
K. R. Nemade, **S. A. Waghuley**
International Journal of Materials Science and Engineering 2 (1) (2014) 63-66.
27. DC ELECTRICAL CONDUCTIVITY OF CHEMICALLY SYNTHESIZED CONDUCTING POLYTHIOPHENE
N.S. Wadtkar, **S.A. Waghuley**
International Journal of Researches in Biosciences, Agriculture & Technology 1 (2) (2014) 1131-1137.
28. LOW TEMPERATURE SYNTHESIS OF SEMICONDUCTING α -Al₂O₃ QUANTUM DOTS
K. R. Nemade, **S. A. Waghuley**
Ceramics International 40 (4) 6109–6113.

29. STUDY OF SURFACE PLASMON RESONANCE IN CONDUCTING POLYINDOLE USING UV-Vis SPECTROSCOPY
N.S.Wadatkar, **S.A.Waghuley**
International Journal of Basic And Applied Research, Sp. Issue (2014) 273-275.

30. STUDY OF ION MOBILITY IN VANADO BORATE GLASS SYSTEM R. V. Barde, N.D. Khandare, **S. A. Waghuley**
International Journal of Basic And Applied Research, Sp. Issue (2014) 208-209.

31. STRONG TO WEAK QUANTUM CONFINEMENT TRANSITION IN ZnO QUANTUM DOTS
K. R. Nemade, **S. A. Waghuley**
International Journal of Basic And Applied Research, Sp. Issue (2014) 118-120.

32. SPILL-OVER EFFECT INVESTIGATION IN TiO₂ QUANTUM DOTS ANCHORED GRAPHENE COMPOSITE FOR LPG SENSING
K. R. Nemade, **S. A. Waghuley**
International Journal of Basic And Applied Research, Sp. Issue (2014) 16-20.

33. ROLE OF DEFECTS CONCENTRATION ON OPTICAL AND CARBON DIOXIDE GAS SENSING PROPERTIES OF Sb₂O₃/GRAPHENE COMPOSITES
K. R. Nemade, **S. A. Waghuley**
Optical Materials 36 (2014) 712–716.

34. LOW OPERABLE TEMPERATURE CHEMIREISTIVE GAS SENSING BY GRAPHENE-ZnO QUANTUM DOTS COMPOSITES
K. R. Nemade, **S. A. Waghuley**
Science of Advanced Materials 6 (2014) 127-133.

35. POLYPHENYLENE SULFIDE (PPS): STATE OF THE ART AND APPLICATIONS
A. S. Rahate, K. R. Nemade, **S. A. Waghuley**
Reviews in Chemical Engineering 29 (6) 2013 471–489.

36. CHARACTERIZATION OF CHEMICALLY SYNTHESIZED ELECTRICALLY CONDUCTING POLYINDOLE N.S.Wadatkar, **S.A.Waghuley**
International Journal For Engineering Applications And Technology 1(2) (2013) 98-101.

37. SOLAR CELL APPLICATION OF CADMIUM-CHALCOGENIDE QUANTUM DOTS COMPOSITES
A.M.Kute, **S.A.Waghuley**
International Journal For Engineering Applications And Technology 1(2) (2013) 63-67.

38. STRONTIUM OXIDE QUANTUM DOT DECORATED GRAPHENE COMPOSITES FOR LIQUID PETROLEUM GAS SENSING
K. R. Nemade, **S. A. Waghuley**
Journal of the Chinese Advanced Materials Society 1 (3) (2013) 219-228.
39. TRANSPORT AND PHYSICAL PROPERTIES OF V_2O_5 - P_2O_5 - B_2O_3 GLASSES DOPED WITH Dy_2O_3
R. V. Barde, **S. A. Waghuley**
Journal of Advanced Ceramics 2 (3) (2013) 246-251.
40. CHEMIREISTIVE GAS SENSING BY FEW-LAYERED GRAPHENE K. R. Nemade, **S. A. Waghuley**
Journal of Electronic Materials 42 (10) (2013) 2857-2866.
41. GAS SENSING MECHANISM OF METAL OXIDE DOPED PANi COMPOSITES
K. R. Nemade, **S. A. Waghuley**
Journal of Materials Science and Engineering B 3 (5) (2013) 310-313.
42. PREPARATION AND ELECTRICAL CONDUCTIVITY OF NOVEL VANADATE BORATE GLASS SYSTEM CONTAINING GRAPHENE OXIDE
R. V. Barde, **S. A. Waghuley**
Journal of Non-Crystalline Solids 376 (2013) 117–125.
43. LPG SENSING APPLICATION OF GRAPHENE/ Bi_2O_3 QUANTUM DOTS COMPOSITES
K. R. Nemade, **S. A. Waghuley**
Solid State Sciences 22 (2013) 27–32.
44. CARBON DIOXIDE GAS SENSING APPLICATION OF GRAPHENE/ Y_2O_3 QUANTUM DOTS COMPOSITE
K. R. Nemade, **S. A. Waghuley**
International Journal of Modern Physics: Conf. Series 22 (2013) 380–384.
45. INVESTIGATION OF ELECTRICAL CONDUCTION IN VANADATE BASED GLASSES
R. V. Barde, **S. A. Waghuley**
International Journal of Modern Physics: Conf. Series 22 (2013) 255–260.
46. SYNTHESIS AND CHARACTERIZATION OF BISMUTH OXIDE QUANTUM DOTS
K. R. Nemade, **S. A. Waghuley**
Advanced Science, Engineering and Medicine 5 (2013) 988-990.
47. STUDY OF AC ELECTRICAL PROPERTIES OF V_2O_5 - P_2O_5 - B_2O_3 - Dy_2O_3 GLASSES
R. V. Barde, **S. A. Waghuley**
Ceramics International 39 (2013) 6303–6311.

48. STUDY OF SOLID-STATE STABILITY OF THE ZTO BINARY SYSTEM
S. A. Waghuley
Turkish Journal of Physics 37 (1) (2013) 113-120.

49. UV-VIS SPECTROSCOPIC STUDY OF ONE POT SYNTHESIZED STRONTIUM OXIDE QUANTUM DOTS
 K. R. Nemade, **S. A. Waghuley**
Results in Physics, 3 (2013) 52–54.

50. GAS SENSING PARAMETERS: RESOLUTION LIMIT AND HYSTERESIS OF ZnO AND CeO₂ MOXs FILMS
 K. R. Nemade, **S. A. Waghuley**
Global Journal of Science, Engineering and Technology, 201 (2) (2012) 7-12.

51. STUDY OF CONDUCTION MECHANISM IN PHOSPHO-VANADATE CONDUCTING GLASS
 R. V. Barde, **S. A. Waghuley**
International Journal of Basic and Applied Research, Sp. Issue (2012) 204-206.

52. STUDY OF CHEMICALLY SYNTHESIZED POLYTHIOPHENE
 N. S. Wadatkar, **S. A. Waghuley**
International Journal of Basic and Applied Research, Sp. Issue (2012) 51-53.

53. SURFACE PLASMON RESONANCE STUDY IN CeO₂ QUANTUM DOTS
 K. R. Nemade, **S. A. Waghuley**
International Journal of Basic and Applied Research, Sp. Issue (2012) 48-50.

54. SYNTHESIS OF POLYPHENYLENE SULFIDE (PPS) COMPOSITE THROUGH CHEMICAL ROUTE
 A.S.Rahate, K. R. Nemade, **S. A. Waghuley**
International Journal of Basic and Applied Research, Sp. Issue (2012) 45-47.

55. STUDY OF OPTICAL PROPERTIES OF CADMIUM OXIDE USING UV-VIS SPECTROSCOPY
 S.S.Kosalge, **S. A. Waghuley**, P.G.Bhatia, F.C.Raghuvanshi, B.H.Pawar
International Journal of Basic and Applied Research, Sp. Issue (2012) 20-22.

56. SYNTHESIS, CHARACTERIZATION AND THERMAL PROPERTIES OF POLYTHIOPHENE COMPOSITES
 K. R. Nemade, **S. A. Waghuley**
Asian Journal of Chemistry, 24 (12) (2012), 5947-5948.

57. V₂O₅-P₂O₅ GLASS CERAMIC AS A RESISTIVE SOLID-STATE CO₂ GAS SENSOR
 R. V. Barde, **S. A. Waghuley**
Asian Journal of Chemistry, 24 (12) (2012), 5622-5624.

58. TRANSITION MODEL ANALYSIS OF BISMUTH OXIDE QUANTUM DOTS
R. G. Dubey, K. R. Nemade, **S. A. Waghuley**
Sci. Revs. Chem. Commun.: 2(3), 2012, 436-440.
59. CHARACTERIZATION OF PHOSPO-VANADATE GLASSY SYSTEM USING FT-IR TECHNIQUE
K. V. Deshmukh, R. V. Barde, **S. A. Waghuley**
Sci. Revs. Chem. Commun.: 2(3), 2012, 432-435.
60. OPTICAL PROPERTIES OF SINGLE STEP SYNTHESIZED NANOSTRUCTURED BISMUTH OXIDE USING HYPERBOLIC BAND MODEL
P. A. Pawar, K. R. Nemade, **S. A. Waghuley**
Sci. Revs. Chem. Commun.: 2(3), 2012, 419-422.
61. OPTICAL PROPERTIES STUDY OF NANOSTRUCTURED CeO₂ USING HYPERBOLIC BAND MODEL
D. K. Pradhan, K. R. Nemade, **S. A. Waghuley**
Sci. Revs. Chem. Commun.: 2(3), 2012, 409-412.
62. CHARACTERIZATION OF PANI-PVAc COMPOSITE THIN FILMS USING XRD ANALYSIS
N. S. Wadatkar, **S. A. Waghuley**
Sci. Revs. Chem. Commun.: 2(3), 2012, 392-394.
63. BIOPOLYMER AS A PROMINENT MEMBER OF MEDICAL IMAGING K.R.Nemade, **S.A.Waghuley**
Sci. Revs. Chem. Commun.: 2(3), 2012, 377-381.
64. NANO-CERAMIC CONDUCTING GLASSES: PREPARATION AND PROPERTIES
R. V. Barde, **S.A. Waghuley**
Sci. Revs. Chem. Commun.: 2(3), 2012, 326-330.
65. DC ELECTRICAL CONDUCTIVITY OF V₂O₅-P₂O₅ BINARY GLASSY SYSTEMS
R. V. Barde, **S.A. Waghuley**
Journal of Physics: Conference Series 365 (1)(2012) 12019-12021(3).
66. STUDY OF OPTICAL BAND GAP OF CuO USING FERMI'S GOLDEN RULE
K.R.Nemade, **S.A.Waghuley**
Journal of Physics: Conference Series 365 (1)(2012) 12018-12021(4).
67. CONDUCTOMETRIC HUMIDITY SENSING CHARACTERISTICS OF SELECTED INORGANIC MATERIALS
S.A. Waghuley
Multilogic in Science, 1(1) (2012) 114-122.

68. PLASMA POLYMERIZATION: NOVEL APPROACH OF SYNTHESIS OF CONJUGATED POLYMERS
K.A Koparkar, **S.A. Waghuley**
Multilogic in Science, 1(1) (2012) 105-109.

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Journal Metrics of Author:

S.N.	Name of Journal	Journal Parameters/Metrics				
		H index	Impact Factor	SJR	SNIP	IPP
1	Materials Letters	91	2.288	0.85	1.268	2.489
2	Ceramics International	56	2.110	0.874	1.558	2.157
3	Rare Metals	17	0.493	0.457	0.746	0.863
4	Optical Materials	68	2.075	0.835	1.306	2.06
5	Walailak Journal of Science and Technology	1	0.108	0.14	0.047	0.1
6	International Journal of ChemTech Research	13	--	0.315	0.635	0.57
7	Indian Journal of Physics	17	1.785	0.322	0.918	1.593
8	Journal of Luminescence	81	2.367	0.809	1.284	2.272
9	Materials Science in Semiconductor Processing	33	1.761	0.512	0.852	1.521
10	Science of Advanced Materials	19	2.908	0.693	0.96	2.533
11	Reviews in Chemical Engineering	22	2.675	0.613	0.932	2.469
12	Journal of Electronic Materials	68	1.675	0.752	1.185	1.552
13	Journal of Non-Crystalline Solids	94	1.716	0.885	1.221	1.703
14	Solid State Sciences	54	1.883	0.717	1.103	1.787
15	Turkish Journal of Physics	17	--	0.208	0.584	0.34
16	Results in Physics	4	--	0.211	0.497	0.455
17	Asian Journal of Chemistry	23	0.355	0.187	0.406	0.349
18	Journal of Physics: Conference Series	35	--	0.191	0.188	0.232
19	Optoelectronics and Advanced Materials – Rapid Communications	12	0.449	0.208	0.38	0.419
20	Indian Journal of Pure & Applied Physics	21	0.711	0.382	1.042	0.797
21	International Journal of Nanomanufacturing	6	--	0	0	0
22	Journal of Electron Devices	5	--	0	0	0
Cumulative		757	25.359	10.161	17.112	26.261

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55. EFFECT OF DOPING CONCENTRATION ON GASES (CO₂ & NO_x) SENSING CHARACTERISTICS OF METAL OXIDES: REVIEW
Proceedings (ISBN: 978-81-922256-5-4) of National Seminar on Technological Innovations with Environmental Integrity (NSTIEI-2012), Shree H.V.P. Mandal's College of Engineering & Technology, Amravati, Feb. 28, 2012, 168-172.
56. CARBON DIOXIDE GAS SENSING RESOLUTION LIMIT AND HYSTERESIS OF TIN OXIDE/PPy SENSOR
Proceedings (ISBN: 978-81-922256-5-4) of National Seminar on Technological Innovations with Environmental Integrity (NSTIEI-2012), Shree H.V.P. Mandal's College of Engineering & Technology, Amravati, Feb. 28, 2012, 164-168.
57. CHEMICAL SYNTHESIS AND CHARACTERIZATION OF CONDUCTING COPOLYMERS POLYANILINE/POLYTHIOPHENE
Proceedings (ISBN: 978-81-922256-5-4) of National Seminar on Technological Innovations with Environmental Integrity (NSTIEI-2012), Shree H.V.P. Mandal's College of Engineering & Technology, Amravati, Feb. 28, 2012, 120-123.
58. STUDY OF METAL OXIDES DOPED CONDUCTING GLASS CERAMICS
Proceedings (ISBN: 978-81-922229-1-2) of UGC sponsored National Conference on Recent Trends in Materials Synthesis and Characterization (NCRTMSC-2011), Bhalerao Science College, Saoner, Dec. 16, 2011, 113-116.
59. PHOSPHO-VANADATE CONDUCTING GLASSES: A BRIEF OVERVIEW
Proceedings (ISBN: 978-93-81660-32-4) of UGC sponsored National Conference on Synthesis and Characterization of Advanced Materials (NCSCAM-2011), Janata Mahavidyalaya Chandrapur, Oct. 8, 2011, 41-45.
60. SYNTHESIS AND GAS SENSING PROPERTIES OF CONDUCTING POLYMER-POLYANILINE: AN OVERVIEW
Proceedings (ISBN: 978-93-81660-32-4) of UGC sponsored National Conference on Synthesis and Characterization of Advanced Materials (NCSCAM-2011), Janata Mahavidyalaya Chandrapur, Oct. 8, 2011, 20-24.
61. VANADATE BASED CONDUCTING GLASSES: A REVIEW
Proceedings of UGC sponsored National Conference on advanced Technologies in material and their applications (NCATMSA-2011), ACS College, Arvi, March 6, 2011, 262-265.
62. UV-VISIBLE STUDY ON POLYMER EMBEDDED L-ALANINE CAPPED CdS NANOPARTICLES
Proceedings of UGC sponsored National Conference on advanced Technologies in material and their applications (NCATMSA-2011), ACS College, Arvi, March 6, 2011, 258-261.

63. DEVELOPMENT OF CO₂ GAS SENSOR INSTRUMENTATION USING SOFT MOLECULAR ELECTRONICS
Proceedings of UGC sponsored National Conference on Nanoscience & Technology(NCNST-2011), Science College, Nagpur, Feb 21-22,2011, 52-55.

64. PC BASED SIMPLE TECHNIQUE FOR CONTROLLING CO₂ GAS IN SENSOR SYSTEM
Proceedings of UGC sponsored National Conference on Recent Trends in Embedded Technology and its applications (NCRTEA-2011), Kamla Nehru Mahavidyalay Nagpur, Jan 22, 2011, 47-51.

65. EFFECT OF Al₂O₃-LAYER ON CARBON DIOXIDE SENSING PROPERTIES OF SnO₂
Proc. Nat. Seminar on Current Trends in Physical Sciences & Electronics Research-2010, Deptt. of Physics & Electronics, Shri Shivaji College of Arts, Commerce and Science, Akola, March 28, 2010, 96-101.

66. DESIGN OF PREAMPLIFIER CIRCUIT AND NOISE ANALYSIS FOR ULTRASONIC MEASUREMENTS
Proc. Nat. Seminar on Current Trends in Physical Sciences & Electronics Research-2010, Deptt. of Physics & Electronics, Shri Shivaji College of Arts, Commerce and Science, Akola, March 28, 2010, 85-90.

67. SIGNAL PROCESSING TECHNIQUES FOR MATERIAL CHARACTERIZATION
Proc. Nat. Seminar on Current Trends in Physical Sciences & Electronics Research-2010, Deptt. of Physics & Electronics, Shri Shivaji College of Arts, Commerce and Science, Akola, March 28, 2010, 13-16.

68. SENSING RESPONSE OF ZnO FILM TO CARBON DIOXIDE GAS
Proc. Nat. conf. On Advances in Material Research, Deptt. of Physics, Shankarlal Khandelwal College, Akola, Feb 26-27, 2010, 29-31.

69. CO₂ GAS SENSING PROPERTIES OF SnO₂-Fe₂O₃ COMPOSITES
Proc. Nat. conf. On Advances in Material Research, Deptt. of Physics, Shankarlal Khandelwal College, Akola, Feb 26-27, 2010, 51-53.

70. D.C. CONDUCTIVITY OF PTh/V₂O₅ COMPOSITE
Proc. Nat. conf. On Advances in Material Research, Deptt. of Physics, Shankarlal Khandelwal College, Akola, Feb 26-27, 2010, 90-93.

71. GROWTH AND CHARACTERIZATION OF NEW NLO CRYSTAL: L-ARGININE CYNOACETATE (LCLA) FOR SHG APPLICATIONS
National Conference on Physics Science: Trends & Future-2010, Deptt. of Physics, Vidya Bharati Mahavidyalaya, Camp, Amravati, Jan 6-7, 2010

72. GAS SENSITIVITY OF SnO₂-CuO THICK FILM SENSOR TO H₂S GAS AT ROOM TEMPERATURE

National Conference on Physics Science: Trends & Future-2010, Deptt. of Physics, Vidya Bharati Mahavidyalaya, Camp, Amravati, Jan 6-7, 2010

73. SYNTHESIS, STUDY AND CHARECTERIZATION OF CONDUCTING POLYTHIOPHENE COMPOSITE FILMS

National Conference on Physics Science: Trends & Future-2010, Deptt. of Physics, Vidya Bharati Mahavidyalaya, Camp, Amravati, Jan 6-7, 2010

74. PREPARATION OF NANO-CRYSTALLINE BISMUTH OXIDE PARTICLES BY A HYDROTHERMAL DECOMPOSITION ROUTE

National Conference on Physics Science: Trends & Future-2010, Deptt. of Physics, Vidya Bharati Mahavidyalaya, Camp, Amravati, Jan 6-7, 2010

75. POLYTHIOPHENE/POLY(VINYL ACETATE) COMPOSITES-BASED SENSOR FOR CO₂ MONITORING

National Conference on Physics Science: Trends & Future-2010, Deptt. of Physics Vidya Bharati Mahavidyalaya, Camp, Amravati, Jan 6-7, 2010

76. AN INVESTIGATION ON NLO L-ARGININE DOPED ADP SINGLE CRYSTALS

Proc. Nat. Conf. on Recent Trends in Materials Synthesis and Characterization (NCRTMSC-2009), Bhalerao College, Saoner, 4-5 Dec 2009, 18-21.

77. CARBONDIOXIDE GAS SENSING MECHANISM OF SnO₂-CuO MIXED OXIDE THICK FILMS AT DEFFERENT OPERATING TEMPERATURE

Proc. Nat. Conf. on Recent Trends in Materials Synthesis and Characterization (NCRTMSC-2009), Bhalerao College, Saoner, 4-5 Dec 2009, 148-154.

78. CO₂ GAS SENSING PROPERTIES OF SnO₂-CuO THICK FILMS PREPARED BY SCREEN-PRINTING METHOD.

Proc. Nat. Conf. on Recent Trends in Basic and Applied Materials, Institute of Science, Nagpur, 10-11 Jan 2009, 116-119.

79. CONDUCTING POLYMER-POLYPYRROLE AS A CO₂ GAS SENSOR.

Proc. Solid-State Physics (India), 46 (2003) 277-278.

1. ANTIBACTERIAL ACTIVITY OF METAL OXIDES LOADED ELECTROCHEMICALLY EXFOLIATED GRAPHENE
National Seminar on Application of Nanobiotechnology in Medicine, Agriculture and Environment Department of Biotechnology, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, March 16, 2015.
2. LOW OPERATING TEMPERATURE CARBON DIOXIDE GAS SENSING APPLICATION BY BISMUTH OXIDE/GRAPHENE NANOCOMPOSIT
International Conference on Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015), Department of Physics, Chemistry & Electronics, Karmaveer Bhaurao Patil Mahavidyala, Pandharpur, Dist.Solapur (M.S.) INDIA, March 9-11, 2015.
3. EX-SITU SYNTHESIS OF CuO NANOPARTICLES LOADED POLYANILINE COMPOSITE FOR LIQUEFIED PETROLEUM GAS
National Conference on Novel Synthesis of Advanced Materials and Their Applications (NSAMA-2015) Department of Physics, Arts, Commerce & Science College, Maregaon (Road), Dist. Yavatmal, INDIA, Feb 16, 2015.
4. LIQUEFIED PETROLEUM GAS SENSING APPLICATION OF ZnO QUANTUM DOTS LOADED GRAPHENE COMPOSITE
National Conference on Sustainable Chemistry: Frontiers & Challenges (NCSC-2015) Dept of Chemistry, Brijlal Biyani Science College, Amravati, INDIA, Jan 30-31, 2015.
5. PHOTOVOLTAIC PROPERTIES OF GRAPHENE-TiO₂ NANOCOMPOSITES
International Conference on Materials and Characterization techniques (ICMCT-2014), Centre for crystal growth, School of Advanced Sciences, VIT University, Vellore, INDIA, Mar 10-12, 2014.
6. SPILL-OVER EFFECT INVESTIGATION IN TiO₂ QUANTUM DOTS ANCHORED GRAPHENE COMPOSITE FOR LPG SENSING
National Conference on Materials Science:Trends & Future (NCMS-2014) Dept of Physics, Bharatiya Mahavidyalaya, Amravati, INDIA, Jan 10-11, 2014.
7. KINETIC STUDIES OF CONDUCTING POLYMER-POLYPYRROLE USING DIFFERENTIAL THERMAL ANALYSIS
National Conference on Mathematical Sciences (NCMS-2013), Dept of Mathematics, Shri. Dr. R.G.Rathod Arts & Science College, Murtizapur, Dist. Akola, INDIA, Jan 18-19, 2013.
8. CARBON DIOXIDE GAS SENSING APPLICATION OF GRAPHENE/Y₂O₃ QUANTUM DOTS COMPOSITE
International Conference on Ceramics (ICC-2012) Dept of Physics, Govt. Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner-334004, (Rajasthan) INDIA, Dec 12-13, 2012.

9. SYNTHESIS, CHARACTERIZATION AND THERMAL PROPERTIES OF POLYTHIOPHENE COMPOSITES

International Conference on Global Trends in Pure and Applied Chemical Sciences, Asian Journal of Chemistry, Udaipur, Rajasthan, INDIA, Mar 3-4, 2012.

10. PHOSPHO-VANADATE CONDUCTING GLASSES: A BRIEF OVERVIEW

National Conference on Synthesis and Characterization of Advanced Materials (NCSCAM-2011), Dept of Physics, Janata Mahavidyalaya Chandrapur, INDIA, Oct. 8, 2011.

11. UV-VISIBLE STUDY ON POLYMER EMBEDDED L-ALANINE CAPPED CdS NANOPARTICLES

National Conference on advanced Technologies in material and their applications (NCATMSA-2011), Dept of Physics, ACS College, Arvi, INDIA, Mar 6, 2011.

12. PC BASED SIMPLE TECHNIQUE FOR CONTROLLING CO₂ GAS IN SENSOR SYSTEM

National Conference on Recent Trends in Embedded Technology and its applications (NCRTEA-2011), Dept of Electronics, Kamala Nehru Mahavidhyalaya, Nagpur, INDIA, Jan 22, 2011.

13. EFFECT OF Al₂O₃-LAYER ON CARBON DIOXIDE SENSING PROPERTIES OF SnO₂

National Seminar on Current Trends in Physical Sciences & Electronics Research-2010, Deptt. of Physics & Electronics, Shri Shivaji College of Arts, Commerce and Science, Akola, INDIA, Mar 28, 2010.

14. POLYTHIOPHENE/POLY (VINYL ACETATE) COMPOSITES-BASED SENSOR FOR CO₂ MONITORING

National Conference on Materials Science: Trends & Future-2010, Deptt. of Physics, Vidya Bharati Mahavidyalaya, Camp, Amravati, INDIA, Jan 6-7, 2010.

Recognized Research Guide:

Ph.D. Awarded- 02; Thesis submitted- 02; Ph.D. Registered- 03

M.Phil- 05;

M.Sc. Dissertations- 63

Ph.D.:

S. No.	Name of the Student	Title of Synopsis	Registration /Award No/Date	Status Awarded/ Submitted/ Applied	Remarks if any
1	Dr. K. R. Nemade	SYNTHESIS AND CHARACTERIZATION OF GRAPHENE/MOX QUANTUM DOTS COMPOSITES FOR RESISTIVE SOLID STATE GAS SENSOR APPLICATION	Gazette No. 80/2014 Dated 12-12-14	Awarded	File No.:5290
2	Dr. R.V. Barde	STUDY OF ELECTRICAL AND THERMAL PROPERTIES OF METAL OXIDES DOPED VANADATE BASED CONDUCTING GLASSES	Gazette No. 15/2014 Dated 15-5-14	Awarded	File No.:4667
3	Sh. A.R. Chaudhary	CONDUCTING POLYPYRROLE-BISMUTH OXIDE NANOCOMPOSITE THIN FILMS: SYNTHESIS CHARACTERIZATION AND GAS SENSING PROPERTIES	SGBAU/Ph.D./PHY-4665/2011 w.e.f. 15.01.2011	Registered	File No.:4665
4	Sh. A.S. Rahate	STUDY OF ELECTRICAL AND THERMAL PROPERTIES OF CHEMICALLY SYNTHESIZED CONDUCTING POLYMER POLY(PHNYLENE-SULPHIDE) COMPOSITES	SGBAU/Ph.D./PHY-5009/2011 w.e.f. 15.07.2011	Registered	File No.:5009
5	Sh. N.S. Wadatkar	INVESTIGATION OF ELECTRICAL AND THERMAL PROPERTIES OF CHEMICALLY SYNTHESIZED THIOPHENE-INDOLE CONDUCTING COPOLYMER	SGBAU/Ph.D./PHY-5841/2013 w.e.f. 15.01.2013	Thesis submitted	File No.:5841
6	Sh. S.R. Takpire	NOVEL APPROACH TOWARDS STUDIES ON TRANSITION PHOTOVOLTAIC CHARACTERISTIC OF ANILINE-THIOPHENE COPOLYMERS	SGBAU/Ph.D./PHY-6619/2014 w.e.f. 15.07.2013	Thesis submitted	File No.:6619
7	Sh. A.M. Kute	INVESTIGATION ON SILICON RICH METAL SULPHIDE NANOCOMPOSITES FOR SOLAR CELL APPLICATION	SGBAU/Ph.D./PHY-6618/2014 w.e.f. 15.07.2013	Registered	File No.:6618
8	Sh. N. D. Khandare	STUDY OF ELECTRICAL PROPERTIES OF SUPEROXIDE DISPERSED BORATE CONDUCTING GLASS SYSTEM	Applied on 15-1-2015	Applied	--

M. Phil. Dissertations Supervised:

S. No.	Name of the Student	Title of dissertation	Academic Year	Status
1	Sh. N. S. Wadatkar	EFFECT OF POLY(VINYL ACETATE) ON DC CONDUCTIVITY OF CHEMICALLY SYNTHESIZED POLYANILINE COMPOSITE THIN FILMS	2008-09	Completed
2	Sh. V. N. Manjare	CHARACTERIZATION AND DC ELECTRICAL CONDUCTIVITY OF POLYTHIOPHENE/V ₂ O ₅ COMPOSITES	2008-09	Completed
3	Ku. V. R. Raut	ROOM TEMPERATURE CO ₂ GAS SENSING RESPONSE BASED ON CHEMICALLY SYNTHESIZED CONDUCTING POLYMER-POLYANILINE	2008-09	Completed
4	Sh. Y. V. Joshi	SENSITIVITY, STABILITY AND DYNAMIC RESPONSE OF CeO ₂ BASED GAS SENSORS	2008-09	Completed
5	Sh. S. S. Muneshwar	THICKNESS DEPENDENCE GAS SENSING CHARACTERISTICS OF CONDUCTING POLYMER- POLYTHIOPHENE (PTh) THICK FILMS	2008-09	Completed

M. Sc. Projects Supervised:

S. No.	Name of the Student	Title of Project	Session	Status
1.	Ku.R.S. Bedarkar	ANTIBACTERIAL ACTIVITY OF POLYANILINE/SILVER NANOCOMPOSITES	2014-15	completed
2.	Ku.S.G. Kulkarni	RESISTIVE GAS SENSING APPLICATION OF SODIUM SUPEROXIDE NANOPARTICLES	2014-15	completed
3.	Ku.S.M. Tagade	SYNTHESIS AND CHARACTERIZATION OF ZrO ₂ NANOPARTICLES	2014-15	completed
4.	Sh.C.A. Khodaskar	PREPARATION OF THIN FILMS OF METAL OXIDES BY SPRAY PYROLYSIS TECHNIQUE	2014-15	completed
5.	Ku.S.R. Thakur	SYNTHESIS AND CHARACTERIZATION OF POLYANILINE-POLYPYRROLLOL COPOLYMERS FOR ANTIBACTERIAL APPLICATION	2014-15	completed
6.	Ku.M.P. Panpaliya	SYNTHESIS AND CHARACTERIZATION OF Bi ₂ O ₃ QUANTUM DOTS	2014-15	completed
7.	Ku. S.A. Tajne	STUDY OF RESISTIVITY OF CUPRATE BASED SUPERCONDUCTORS	2013-14	Completed
8.	Sh. P.B. Rathod	PHOTOVOLTAIC APPLICATION OF GRAPHENE-METAL OXIDE NANOCOMPOSITES	2013-14	Completed
9.	Sh. G.V. Chavan	SYNTHESIS AND CHARACTERIZATION OF POLYANILINE/ZINC OXIDE NANOCOMPOSITE FOR SUPERCAPACITIVE APPLICATION	2013-14	Completed
10.	Sh. K.F. Wadekar	SYNTHESIS, CHARACTERIZATION AND GAS SENSING APPLICATION OF ALUMINIUM NITRIDE-POLYPYRROLE NANOCOMPOSITES	2013-14	Completed
11.	Ku. S.G.	STUDY OF TRANSPORT PROPERTIES OF	2013-14	Completed

	Shahane	CONDUCTING POLYMER-POLYTHIOPHENE		
12.	Ku. P.A. Danao	SYNTHESIS AND PHOTOVOLTAIC PROPERTIES OF GRAPHENE/TiO ₂ NANOCOMPOSITES	2012-13	Completed
13.	Ku. M.N. Telkar	STUDY OF ELECTRICAL AND OPTICAL PROPERTIES OF 60V ₂ O ₅ -(30-x)Bi ₂ O ₃ -xB ₂ O ₃ GLASS SYSTEM	2012-13	Completed
14.	Sh. H.P. Ingle	CARBON NANORODS SYNTHESIS USING ARC DISCHARGE METHOD	2012-13	Completed
15.	Ku. J.K. Datir	GAS SENSING PROPERTIES OF GRAPHENE-SnO ₂ THICK FILMS	2012-13	Completed
16.	Ku. P.J. Deshmukh	SYNTHESIS, CHARACTERIZATION AND TRANSPORT PROPERTIES OF 60V ₂ O ₅ -15B ₂ O ₃ -(25-x)Bi ₂ O ₃ -xFe ₂ O ₃ GLASS SYSTEM	2012-13	Completed
17.	Ku. M.S. Tapdiya	SYNTHESIS OF CARBON NANORODS BY ARC DISCHARGE METHOD USING FERROUS CATALYST	2012-13	Completed
18.	Sh. Y.A. Wadhal	ULTRASONIC STUDY OF PLATINUM DISPERSED AQUEOUS SOLUTION	2012-13	Completed
19.	Ku. M.A. Landge	GAS SENSING APPLICATION OF GRAPHENE/Sb ₂ O ₃ NANOCOMPOSITES	2012-13	Completed
20.	Sh. A.R. Solanke	SYNTHESIS AND CHARACTERIZATION OF CARBON NANORODS	2012-13	Completed
21.	Ku. R.K. Wankhade	STUDY OF ACOUSTICAL PROPERTIES OF SOME DILUTED METALS AND NON METALS SOLUTIONS	2012-13	Completed
22.	Ku. P.M. Wankhade	IONIC CONDUCTION IN 60V ₂ O ₅ -25Bi ₂ O ₃ -(10-x)B ₂ O ₃ -xTiO ₂ GLASS SYSTEM	2012-13	Completed
23.	Sh. M.R. Kakade	ACOUSTICAL AND MOLECULAR INTERACTION STUDY OF COMPLEX LIQUID MIXTURES USING ULTRASONIC TECHNIQUE AT ROOM TEMPERATURE	2012-13	Completed
24.	Ku. M.V. Patil	STUDY OF ION MOBILITY IN 50V ₂ O ₅ -(50-x)B ₂ O ₃ -xP ₂ O ₅ GLASS SYSTEM	2011-12	Completed
25.	Ku. K.V. Deshmukh	OPTICAL AND ELECTRICAL TRANSPORT PROPERTIES OF PHOSPO-VANADATE GLASSES	2011-12	Completed
26.	Ku. D.N. Wankhede	MEASUREMENT OF TRANSFERENCE NUMBER OF GRAPHENE BASE 60V ₂ O ₅ -(36-x)B ₂ O ₃ -4P ₂ O ₅ -xGO GLASS SYSTEM	2011-12	Completed
27.	Ku. B.A. Hinge	SYNTHESIS, CHARACTERIZATION AND TRANSPORT PROPERTIES OF 50V ₂ O ₅ -(50-x)B ₂ O ₃ -xCeO ₂ GLASS SYSTEM	2011-12	Completed
28.	Ku. P.S. Durshetwar	GRAPHENE/POLYINDOLE NANOCOMPOSITES CHEMIREISTORS AS NITROGEN GAS SENSORS	2011-12	Completed
29.	Ku. R.A. Wathodkar	NITROGEN GAS DETECTION USING STRONTIUM QUANTUM DOTS DOPED PTh COMPOSITES	2011-12	Completed
30.	Ku. A.T. Yadgire	LPG SENSING APPLICATION OF PANi-Y ₂ O ₃ COMPOSITE THIN FILMS	2011-12	Completed
31.	Ku. P.A. Pawar	GREEN HOUSE GAS (CO ₂) MONITORING BY PANi-Bi ₂ O ₃ NANOCOMPOSITES	2011-12	Completed
32.	Ku. D.K.	OPTICAL AND ELECTRICAL PROPERTIES OF CeO ₂ DOPED PANi NANOCOMPOSITES	2011-12	Completed

	Pradhan			
33.	Mrs. S.P. Wankhade	MOLECULAR INTERACTION STUDY IN BINARY LIQUID SOLUTION USING ULTRASONIC TECHNIQUE	2010-11	Completed
34.	Sh. K.A. Koparkar	SENSING RESPONSE OF WO ₃ /PANI COMPOSITE FILMS TO CARBON DIOXIDE GAS.	2010-11	Completed
35.	Ku. S.D. Gudadhe	MOLECULAR INTERACTION STUDIES IN OXALIC ACID.	2010-11	Completed
36.	Sh. K.R. Nemade	EFFECT OF OXIDANT ON GAS SENSING PROPERTIES OF CuO/PTh NANOCOMPOSITES.	2010-11	Completed
37.	Ku. K.M. Kakde	MOLECULAR INTERACTION IN ZnCl ₂ AQUEOUS SOLUTION.	2010-11	Completed
38.	Sh. R.S. Palspagar	CARBON DIOXIDE GAS SENSING APPLICATION OF CERIUM DOPED POLYANILINE THICK FILMS.	2010-11	Completed
39.	Ku. P.S. Rath	ACOUSTICAL STUDIES ON MOLECULAR INTERACTION IN CdCl ₂ AQUEOUS SOLUTION AT ROOM TEMPERATURE.	2010-11	Completed
40.	Sh. N.S. Sawala	PREPARATION, CHARACTERIZATION AND CO ₂ SENSING APPLICATION OF PANI/PTh COPOLYMER.	2010-11	Completed
41.	Ku. P.A. Bobde	ACOUSTICAL STUDIES ON MOLECULAR INTERACTION IN TIN(II) CHLORIDE AQUEOUS SOLUTION AT ROOM TEMPERATURE.	2010-11	Completed
42.	Ku. S.S. Bais	STUDY OF WEIN BRIDGE OSCILLATOR USING CE AMPLIFIER.	2009-10	Completed
43.	Sh. M.S. Ambedare	TO STUDY THE PULSE WIDTH MODULATION.	2009-10	Completed
44.	Sh. S.D. Gotey	SYNTHESIS AND DC CONDUCTIVITY OF PTh/CeO ₂ COMPOSITES.	2009-10	Completed
45.	Ku. S.B. Lavhale	CARBON DIOXIDE GAS SENSING APPLICATION OF CeO ₂ .	2009-10	Completed
46.	Ku. S.D. Bodkhe	GAS SENSING PROPERTIES OF PTh/CeO ₂ COMPOSITES.	2009-10	Completed
47.	Ku. P.A. Tayade	TO STUDY AND DESIGN AMPLITUDE MODULATION TRANSMITTER.	2009-10	Completed
48.	Ku. A.B. Chandak	TO STUDY TUNED RADIO FREQUENCY RECEIVER.	2009-10	Completed
49.	S.N.S. Karim	TO STUDY AND DESIGN FREQUENCY MODULATION RECEIVER.	2009-10	Completed
50.	Sh. S.P. Karpe	TO STUDY AND DESIGN FREQUENCY MODULATION TRANSMITTER.	2009-10	Completed
51.	Sh. V.G. Pohurkar	TO STUDY AND DESIGN PULSE WIDTH MODULATION.	2009-10	Completed
52.	Sh. Y.R. Giri	TO STUDY AND DESIGN HETERODYNE RECEIVER.	2009-10	Completed
53.	Ku. M.S. Padghan	SENSITIVITY OF CHEMICALLY SYNTHESIZED CONDUCTING POLYMER POLYPYRROLE TO O ₂ GAS	2008-09	Completed
54.	Sh. P.J. Jadhao	EFFECT OF NORMALITY OF KBr SOLUTION ON DIELECTRIC CONSTANT AT DIFFERENT TEMPERATURES.	2007-08	Completed
55.	Sh. A.B.	EFFECT OF MAGNETIC FIELD ON FORWARD	2007-08	Completed

	Ajmire	RESISTANCE OF OA79 GERMANIUM DIODE.		
56.	Sh.R.D. Mahatme	SIMPLE METHOD FOR GENERATING LISSAJOUS FIGURES.	2007-08	Completed
57.	Ku. S.B. Chandak	EFFECT OF MAGNETIC FIELD ON CHARACTERISTICS OF UNIJUNCTION TRANSISTOR.	2007-08	Completed
58.	Ku. S.R. Raut	STUDY OF 5-STATE LOGIC PROBE.	2006-07	Completed
59.	Ku. A.K. Chikhalkar	STUDY OF UNIVERSAL LOGIC PROBE.	2006-07	Completed
60.	Sh. R.T. Nagrale	DESIGN AND CONSTRUCTION OF PULSE GENERATOR.	2005-06	Completed
61.	Ku. S.P. Thombare.	VARIATION OF BOILING POINT AND DIELECTRIC CONSTANT OF WATER WITH NaCl.	2005-06	Completed
62.	Ku. D.A. Pande	TO STUDY THE CHARACTERISTICS OF GERMANIUM DIODE IN MAGNETIC FIELD.	2004-05	Completed
63.	Ku. V.R. Raut	TO STUDY THE CHARACTERISTICS OF ZENER DIODE IN MAGNETIC FIELD.	2004-05	Completed

Invited Talks/Guest Lectures/Session Chaired.

S.N.	Title of lecture / Academic Session	Organized by and date	Whether international / national / state / regional / college or university level
1	NANOTECHNOLOGY	Department of Physics, G.S.Tompe Arts, Commerce & Science College, Chandur Bz, Dist Amravati, India, Sept 11, 2015.	Regional
2	SYNTHESIS OF NANOPARTICLES AND PREPARATION OF THIN FILMS	Department of Physics, R.D.I.K. Science College, Badnera, Dist Amravati, India, Sept 28, 2013.	Regional

Conferences/Seminars/Workshops Organized.

1. Coordinator, 26th Orientation programme, Academic Staff College, Sant Gadge Baba Amravati University, Amravati during 10-02-2014 to 08-03-2014.
2. Co-coordinator, Students' Seminar, workshop for celebrating 100th years of Indian Science Congress Association Amravati Chapter and Sant Gadge Baba Amravati University, Amravati, Aug. 10-11, 2012.

3. Organizing Secretary, National Conference on Lasers and Advanced Materials (NCLAM-2012), Dept. Of Physics, Sant Gadge Baba Amravati University, Amravati, May 29-30, 2012.
4. Organizing Secretary (Physics), One day activity-workshop on Vivekananda's Scientific Approach through Einstein's Brain, Swami Vivekanand Studies Centre, Sant Gadge Baba Amravati University, Amravati, Oct. 11, 2011.

International/National Conferences/Seminars/Workshops Attended:

S. No.	Name	Place	Duration	Remark
1.	National Seminar on Application of Nanobiotechnology in Medicine, Agriculture and Environment	Dept of Biotechnology, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA.	March 16, 2015	Presented Research Papers
2.	International Conference on Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015)	Dept of Physics, Chemistry & Electronics, KBP Mahavidyala, Pandharpur, Dist.Solpaur (M.S.) INDIA.	March 9-11, 2015	Presented Research Papers
3.	National Conference on Novel Synthesis of Advanced Materials and Their Applications (NSAMA-2015)	Department of Physics, Arts, Commerce & Science College, Maregaon (Road), Dist. Yavatmal, INDIA.	Feb 16, 2015	Presented Research Papers and Got Best Poster Presentation Award
4.	National Conference on Sustainable Chemistry: Frontiers & Challenges (NCSC-2015)	Dept of Chemistry, Brijlal Biyani Science College, Amravati, INDIA.	Jan 30-31, 2015	Presented Research Paper
5.	One Day Seminar-cum-Workshop on Vivekananda's Perspective for Nation Building	Swami Vivekananda Study Centre, Sant Gadge Baba Amravati University, Amravati and Ramkrishna Vivekananda Samitee, Amravati, INDIA.	Jan 14, 2015	Actively participated, Registration committee member
6.	International Conference on Materials and Characterization techniques (ICMCT-2014)	Centre for crystal growth, School of Advanced Sciences, VIT University, Vellore, INDIA.	Mar 10-12, 2014	Presented Research Papers
7.	National Conference on Materials Science:Trends &	Dept of Physics, Bharatiya	Jan 10-11, 2014	Presented Research Paper

	Future (NCMS-2014)	Mahavidyalaya, Amravati, INDIA		
8.	Workshop on „Patents and Intellectual Property Management“	Patent Cell, Sant Gadge Baba Amravati University, Amravati, INDIA.	Feb 7, 2013	Actively Participated
9.	National Conference on Mathematical Sciences (NCMS-2013)	Dept of Mathematics, Shri. Dr. R.G.Rathod Arts & Science College, Murtizapur, Dist. Akola, INDIA.	Jan 18-19, 2013	Presented Research Paper
10.	International Conference on Ceramics (ICC-2012)	Dept of Physics, Govt. Engineering College Bikaner, Karni Industrial Area, Pugal Road, Bikaner-334004, (Rajasthan) INDIA.	Dec 12-13, 2012	Presented Research Paper
11.	One Day Workshop in „Teaching Skills“	PG Dept of Education, Sant Gadge Baba Amravati University, Amravati, INDIA.	Oct 17, 2012	Actively Participated
12.	International Conference on Global Trends in Pure and Applied Chemical Sciences	Asian Journal of Chemistry, Udaipur, Rajasthan, INDIA.	Mar 3-4, 2012	Presented Research Paper
13.	National Conference on Synthesis and Characterization of Advanced Materials (NCSCAM-2011).	Janata Mahavidyalaya Chandrapur, INDIA.	Oct. 8, 2011	Presented two Research Papers
14.	One Day Seminar-Cum-Workshop On “Personality Development”	Swami Vivekanand Studies Centre, Sant Gadge Baba Amravati University, Amravati, INDIA.	April 8, 2011	Contributed a two Abstracts
15.	National Conference on advanced Technologies in material and their applications (NCATMSA-2011),	ACS College, Arvi, INDIA.	Mar 6, 2011	Presented two Research Papers
16.	National Conference on Recent Trends in Embedded Technology and its applications (NCRTEA-2011)	Kamala Nehru Mahavidhyalaya, Nagpur, INDIA.	Jan 22, 2011	Presented Research Paper
17.	National workshop on „Preparation of Question Bank“	Sant Gadge Baba Amravati University, Amravati, INDIA.	Sep 30-Oct2, 2010	Submitted 300 questions.
18.	National workshop on „Preparation of Question Bank“	Sant Gadge Baba Amravati University, Amravati, INDIA.	Aug 9-10, 2010	Atomic, Molecular and Nuclear Physics topic allotted for preparation of Questions

19.	National workshop on „Preparation of Question Bank“	Sant Gadge Baba Amravati University, Amravati, INDIA.	July 2-4, 2010	Prepare the contents of syllabi
20.	Mission 10X Workshop	Sant Gadge Baba Amravati University, Amravati, INDIA.	May 3-7, 2010	Actively Participated
21.	A seminar on „current challenges in Physics Education“ and Annual convention of AUPTA	Shri Shivaji Science College, Amravati, INDIA.	April 25, 2010	Actively Participated
22.	International conf. On Science, Engineering & Spirituality	SES College of Engineering, Navalnagar, Dhule, INDIA.	April 1-2, 2010	Contributed a Paper
23.	National Seminar on Current Trends in Physical Sciences & Electronics Research-2010	Deptt. of Physics & Electronics, Shri Shivaji College of Arts, Commerce and Science, Akola, INDIA.	March 28, 2010	Presented Research Paper and Got Best Poster Presentation Award
24.	One Day Workshop on Impedance Analyzer	Sant Gadge Baba Amravati University, Amravati, INDIA.	Feb 9, 2010	Actively Participated
25.	National Conference on Materials Science: Trends & Future-2010	Deptt. of Physics, Vidya Bharati Mahavidyalaya, Camp, Amravati, INDIA.	Jan 6-7, 2010	Presented Research Paper
26.	Three Day Workshop on Recent Trends in Physics	Deptt. of Physics, SGBA University, Amravati, INDIA.	Dec 17-19, 2009	Actively Participated
27.	One Day Workshop on Lighting For Rural and Urban Low Income Groups Using LEDs	Sant Gadge Baba Amravati University, Amravati, INDIA.	Oct 3, 2009	Actively Participated
28.	One Day Training Program For Science and Engineering Teachers	Sant Gadge Baba Amravati University, Amravati, INDIA.	Aug 8, 2009	Actively Participated
29.	Workshop on Total Solar Eclipse-09	Deptt. of Mathematics, SGBA University, Amravati, INDIA.	June 13-14, 2009	Actively Participated
30.	A Workshop on Pure Physics Curricula in Contemporary Universities: Challenges and Innovation & Convention of Physics Teachers	Vidya Bharati Mahavidyalaya, Camp, Amravati, INDIA.	April 26, 2009	Actively Participated
31.	Awareness Workshop of UGC-DAE Consortium for Scientific Research.	Department of Physics, Solapur University, Solapur, INDIA.	Feb 28-Mar 01, 2008	Actively Participated
32.	Regional Level Workshop on Advances in Electronics	Brijlal Biyani Science College, Amravati and	Jan 22, 2008	Actively Participated

	(Special Emphasis on Microcontrollers)	Amravati University & College Electronics Teachers Association, Amravati, INDIA.		
33.	International Conference on Relativity (ICR-2005)	Dept. of Mathematics, Amravati University, Amravati, INDIA.	Jan 11-14, 2005	Actively Participated
34.	First Conference of Electronics Teachers and Workshop on Upgradation of Curriculum.	Brijlal Biyani Science College, Amravati.	Mar 20, 2005	Actively Participated
35.	Workshop on Scope & Limitations of B.Sc.III (Physics) Syllabus.	Dept. of Physics, Amravati University, Amravati, INDIA.	Jan 30, 2005	Actively Participated
36.	Workshop on Scope & Limitations of B.Sc.II (Physics) Syllabus.	Shri Shivaji Science College, Akot, INDIA.	Oct 3, 2004	Actively Participated
37.	46 th DAE Solid State Physics Symposia.	Jiwaji University, Gwalior, INDIA.	Dec 26-30, 2003	Presented Research Paper
38.	Workshop on Scope & Limitations of B.Sc.I (Physics) Syllabus.	Arts, Science & Commerce College, Chikhaldara, INDIA.	Aug 17, 2003	Prepared Scope and Limitation of Paper-I of B.Sc.-I

Serving as Reviewer for the Following Journals/Research Projects/Conferences:

Sensors and Actuators B; Talanta; Scientific & Academic Publishing; World Applied Sciences Journal; Indian Journal of Science and Technology; African Journal of Pure and Applied Chemistry; Sensor Letters; Indian Journal of Pure & Applied Physics; National conference on The Role of Basic Sciences in Emerging Industrial Scenario (RBSEIS-2012), PRM Inst. Of Tech. & Research (MITRA), Badnera, India, 8th Apr. 2012.; National conference on Lasers and Advanced Materials(NCLAM-2012), Dept. of Physics, Sant Gadge Baba Amravati University Amravati, India, 29-30 May 2012; American Journal of Chemistry; American Journal of Materials Science; American Journal of Polymer Science; International Journal of Materials and Chemistry; Journal of Molecular Structure; Materials Science in Semiconductor Processing; Synthetic Metals; Applied Surface Science; International Journal of Electrical Power and Energy Systems; Optical Materials; Science and Engineering Research Board (SERB);

Member of Professional Bodies:

1. Life member of Indian Vacuum Society (LM 849), BARC, **Mumbai**.
2. Member of specific scientific and technical committee & editorial review board (Natural and Applied Sciences), World Academy of Science, Engineering and Technology (WASET), **Malaysia**.
3. Member of International Frequency Sensor Association (IFSA), Affiliate No.: 20090130-001, **Brussels (Belgium)**.
4. Life member of Indian Science Congress Association (L14937), **Kolkata**.
5. Life member of Indian Physics Association (GEN/LM/ 12505), **Mumbai**.
6. Life member of Materials Research Society of India (LM B 1107), **Bangalore**.
7. Life member of Ramkrishna-Vivekanand Samitee, **Amravati**.
8. Life member of Ramkrishna-Vivekanand Vachanalaya, **Amravati**.
9. Life member of Amravati University Physics Teachers Association, **Amravati**.
10. Life member of Physical Society of India, **Amravati**.
11. Life member of Wildlife and Environment Conservation Society (L-171), **Amravati**.
12. Member, Amravati University Karmchari Patsanstha, **Amravati**.

Departmental and University Services:

1. Member, Tabulation Committee, Examination Section, since 2013.
2. Coordinator, FABLAB, since 2012.
3. Member, Scientific and Technical Exhibition Committee, National Science Day 2013.
4. Co-opted member of Subject Exam committee (2010-12).
5. Member of Categorization committee, since 2011.
6. Member of AVISHKAR Committee since 2009.
7. Member of Task Force committee of department of Adult Continuing Education & Extension (Life long Learning) (2010-11).
8. Member of Seminar /slide show/Quiz committees in National Science Day (NSD)- since 2011
9. Member of Organizing committee of One Day Workshop on Personality Development-8-4-2011.
10. Teacher In-charge, University departmental Students Sports (Chess) Programmes (2009-11).
11. Member of Departmental Stock verification committee.
12. Member of AQAR committee of Department (2009-10).
13. Member, Scientific and Technical Exhibition Committee, National Science Day held During February 25-28, 2009.

(Dr.S.A.Waghuley)