



CURRICULUM VITAE

DR. SANDEEP A. WAGHULEY

M.Sc., Ph.D., F.S.A.S.S., F.I.S.C.A.



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Scopus Author ID 23101316100; Researcher ID I-2487-2012; Orcid ID 0000-0003-3969-8904; Vidwan-ID : 215060

Educational Record:

Ph.D.	May 2008	Sant Gadge Baba Amravati University, Amravati, Title of Thesis: Gas Sensitive Electrical Conduction of Polypyrrole Modified SnO ₂ -Al ₂ O ₃ Sensors.
M.Sc.	Jun 1998	Amravati University, Amravati, in First division with specialization in Solid State Physics
B.Sc.	Jun 1996	Amravati University, Amravati, in First division with subjects Physics, Chemistry and Mathematics-
MS-CIT	Dec 2002	MKCL, Mumbai, in First division with subject Information Technology

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:

Professor	Since May 31, 2019-	Department of Physics, Sant Gadge Baba Amravati University, Amravati
Associate Professor	May 31, 2016 to May 30, 2019	Department of Physics, Sant Gadge Baba Amravati University, Amravati
Assistant Professor	Oct 8, 2008 (A.N.) to May 30, 2016	Department of Physics, Sant Gadge Baba Amravati University, Amravati
Assistant Professor/ Lecturer	Aug 26, 2002 to Oct 8, 2008	Department of Physics, Government Vidarbha Institute of Science & Humanities, Amravati
Lecturer (Visiting)	Jun 20, 2002 to Aug 25, 2002	Department of Physics, Shri Shivaji Science College, Amravati

Administrative Experience:

Coordinator	Since, Jun 6, 2019-	RGSTC's Scheme "Assistance for Science & Technology Application Through University System"
Coordinator	Apr 10, 2018 to Dec 25, 2020	Patent Cell, Sant Gadge Baba Amravati University, Amravati
Coordinator	Jul 9, 2012 to Jan 15, 2016.	Fabrication Laboratory, Sant Gadge Baba Amravati University, Amravati

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. Suggestions/comments submitted for M.Phil. New Syllabi to BOS of Physics, 19 Oct 2019.
2. Submitted response before "Anomaly Redressal Committee" to UGC regulations-2018 on dated 14 Dec. 2018.
3. Suggestions/comments submitted for UGC Regulations (Minimum Qualifications for Appointment of Teachers and Other Academic Staff in Universities and Colleges and Measures for the Maintenance of Standards in Higher Education) 2018, 28 Feb 2018.
4. 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.
5. 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.
6. 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.
7. 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.

8. 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.
9. Actively Participated in One Day Workshop in 'Teaching Skills', PG Dept of Education, Sant Gadge Baba Amravati University, Amravati, Oct 17, 2012.
10. Participated and design Role Play in Mission 10X Workshop on 'High Impact Teaching Skills', Sant Gadge Baba Amravati University, Amravati, May 3-7, 2010.
11. Actively participated in One Day Workshop on Impedance Analyzer Sant Gadge Baba Amravati University, Amravati, Feb 9, 2010.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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, since 2009.

Current Research Areas:

Conducting Polymers - Nanocomposites – Quantum Dots - Sensors – Conducting Glasses - Thin Films –Photovoltaic Cells-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 12+ 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.	DEVELOPMENT OF SPACE-RATED GRAPHENE BASED LIGHTWEIGHT COMPOSITES FOR HIGH TEMPERATURE Li-ION BATTERY ELECTRODE APPLICATION	RESPOND, ISRO, Bengaluru	2020-2023	33.75	Forwarded by RESPOND Coordinator
2.	DEVELOPMENT OF COST-EFFECTIVE GRAPHENE-BASED MESH FOR EFFECTIVE WATER PURIFICATION	STRIDE, UGC, New Delhi	2020-2023	47.30	Submitted
3.	THERMAL STUDY OF FULLERENE BASED CONJUGATED POLYMER NANOCOMPOSITES FOR GAS SENSING APPLICATION	Research Centre for Excellence under RUSA	2018-2021	45.79	Submitted
4.	FIST-2010 LEVEL-1 PROPOSAL MEMBER, PROJECT IMPLEMENTATION GROUP	DST, New Delhi	2010-2015	35.00	Completed
5.	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/Recognitions:

1. Fellow, Scholars Academic and Scientific Society (SAS Society), Borhawor, Murajhar Hojai, Assam, India, 29 Jun 2021.
2. Outstanding Academic Excellence Award, International e-Conference on Recent Advances in Material Science & Nanotechnology (RAMAN-2021), Arts, Commerce & Science College, Maregaon, Feb 7-9, 2021.
3. Inspiring Senior Scientist Award, Madras Journal Series Pvt Ltd for Inspiring National Award 2020, Tiruvallur, Chennai, 05 Sept 2020.
4. Best Researcher Award-2020, 2nd International Research Awards on Science, Health and Engineering, Chennai, India, 20 Apr 2020.
5. Best Researcher Award as Official Spotlight in 7th Faculty Branding Award-2019, Research and Branding Company, Kolkata, 21 July 2019.
6. Editorial Board Member, Applied Chemical Engineering, an international peer reviewed open access journal, EnPress Publisher, Myford Road, Suite B-1, Tustin, CA 92780, United States, 16 Jan 2018.
7. 'Distinguished Researcher Award', International Conference on Recent Trends in Science and Technology: Sustainable Development Through Scientific approach (ICRTS-2017), SSES Amt's Science College, congress nagar, Nagpur, 12-14 Jul 2017.
8. 'Utkrasta Seva Gaurav Purskar' awarded by Hon'ble Vice-Chancellor on the occasion of Sant Gadge Baba Amravati University Foundation Day, May 1, 2017.
9. Editorial Board Member, Research Journal of Material Sciences, an international peer reviewed monthly journal (ISSN: 2320 – 6055), VIP-Road, Indore-452005 (MP) India, Sept 2016.
10. 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.
11. 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.
12. Awarded 'Recognized Elsevier Reviewer Status', The Editors of Materials Science in Semiconductor Processing, Elsevier, Amsterdam, Netherlands, Aug 2014.
13. 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.
14. Editorial Advisors, International Journal of Innovative Research and Studies (ISSN: 2319 – 9725), Greater Kolkata College of Engineering & Management, Kolkata, India, Apr 2013.

15. Editorial Board Member, Physics and Materials Chemistry, Science and Education Publishing Co., 10 Cheswold Blvd., #1D, Newark, De, 19713, USA, Dec 2012.
16. 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.
17. Editorial Board Member, Research Journal of Recent Sciences (ISSN 2277 – 2502), 427, Palhar Nagar, RAPTC, VIP-Road, Indore-452005 (MP) INDIA, Jun 2012.
18. Fellow, International Science Congress Association (ISCA-FM-084), Indore-2, MP, India, April 2012.
19. 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.
20. Vice-President, Ramkrishna-Vivekanand Vachanalaya, Amravati (Aug 2010-13).
21. Top 25 hottest article, Rank-22, Chemistry, Sensors and Actuators B: Chemical Aril to June 2008.
22. Top 25 hottest article, Rank-07, Chemistry, Sensors and Actuators B: Chemical January to March 2008.
23. Top 25 Most Downloaded Article, Rank-05, Sensors & Transducers Journal, June 2007.

Training Courses, TLE Technology Programmes, Faculty Development Programmes (not less than one week duration):

S.N.	Programme	Duration	Organized by	Grade	Remark
1.	Short Term Course on Research Methodology	17-12-2018 to 22-12-2018	UGC-Human Resource Development Centre, SGB Amravati University, Amravati.	--	
2.	One Week Short Term Course on Achieving Excellence in Higher Education	11-12-2017 to 16-12-2017	Faculty Development Cell, Sant Gadge Baba Amravati University, Amravati.	--	
3.	Short Term Course on E-content Development	13-02-2017 to 19-02-2017	UGC-Human Resource Development Centre, Saurashtra University, Rajkot.	--	
4.	One Week Training Programme on 'Soft Skill, LMS & E-content Development	02-01-2017 to 07-01-2017	Faculty Development Cell, Sant Gadge Baba Amravati University, Amravati.	--	

5.	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
6.	Refresher courses in Computational Science (Physics)	24-09-2012 to 15-10-2012	UCG-Academic Staff College, Sant Gadge Baba Amravati University, Amravati.	A	
7.	Orientation Course: 10 th Orientation Course	13-06-2011 to 09-07-2011	UCG-Academic Staff College, Sant Gadge Baba Amravati University, Amravati.	A	
8.	Mission 10X Workshop	03-05-2010 to 07-05-2010	Sant Gadge Baba Amravati University, Amravati.	--	

Citations:

1. **1306** citations as on July 2021, according to the Google Scholar Data System.
2. h-index of **20** as on July 2021, according to the Google Scholar Data System.
3. i10-index of **29** on July 2021, according to the Google Scholar Data System.
4. **773** citations as on July 2021, according to the Scopus Data System.
5. h-index of **15** as on July 2021, according to the Scopus Data System.
6. **673** citations as on July 2021, according to the Web of Science Data System.
7. h-index of **14** as on July 2021, according to the Web of Science Data System.

Books Published (Articles/Chapters published, Editor):

1. "A Text Book of PHYSICS, B.Sc. Part-II, Third Semester, Editor, ISBN: 978-93-87278-51-6, DnyanPath Publication, Amravati, Jun 2019.
2. "COMPLEX OPTICAL STUDY OF CHEMICALLY SYNTHESIZED POLYPYRROLE-Bi₂O₃-TiO₂ NANOCOMPOSITE", ISBN: 978-0-7354-1705-2, AIP Conference Proceedings 1989 (2018) 030005-1-5.
3. "VECTOR ANALYSIS AND ELECTROSTATICS", ISBN: 9789387151628 Pragati Prakashan, Meerut, Jan 2018.
4. "MAGNETOSTATICS AND ELECTROMAGNETIC WAVES", ISBN: 9789387151598 Pragati Prakashan, Meerut, Jan 2018.
5. CHAPTER 10 "Applications of Polyaniline-Based Blends, Composites, and Nanocomposites", published in the book "Polyaniline Blends, Composites, and Nanocomposites, (ISBN: 978-0-12-809551-5), Elsevier, Radarwg, Netherlands, Dec 2017.
6. 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.
7. 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 no. 307685, **granted** on Feb 20, 2019, Application no. 1839/MUM/2012, Date of Filing 26/06/2012, 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.*
2. "POLYINDOLE-CsO₂ SUPEROXIDE COMPOSITE AS HIGH PERFORMANCE SUPERCAPACITIVE ELECTRODE MATERIALS"
S.A. Waghuley, K. R. Nemade, P.V. Dudhe
Submitted IDF to Patent Cell, Sant Gadge Baba Amravati University, Amravati, Feb 27, 2020.

Research Papers Published in Peer Reviewed Indexed International Journals:

1. STRUCTURAL AND MORPHOLOGICAL PROPERTIES OF SPRAY DEPOSITED LEAD TELLURIDE THIN FILMS
Syed Ghouse Ibrahim, **S.A. Waghuley**, M.M. Hasan Farooqi, A.V. Kadu
International Journal of Scientific Research in Science and Technology 9 (4) (2021) 100-102. (Impact Factor: 7.214)
2. CURRENT AND UPCOMING INNOVATIONS IN SPINTRONICS
N.V. Korde, **S. A. Waghuley**
International Journal of Scientific Research in Science and Technology 8 (1) (2021) 315-319. (Impact Factor: 7.214)
3. ELECTRICAL INVESTIGATION ON THIOPHENE- INDOLE CONDUCTING COPOLYMERS AS-SYNTHESIZED THROUGH IN SITU CHEMICAL COPOLYMERISATION ROUTE
N. S. Wadtkar, **S. A. Waghuley**
Polymer Bulletin 77 (2020) 4181-4196. (Impact Factor: 2.014)
4. NOVEL SYNTHESIS AND CHARACTERIZATION OF PANi/ SODIUM SUPEROXIDE COMPOSITES
R. V. Barde, **S. A. Waghuley**
International Journal of Scientific Research in Science and Technology 8 (1) (2021) 376-379. (Impact Factor: 7.214)
5. IN SITU Bi₂O₃ LOADED POLYPYRROLE NANOCOMPOSITES FOR CARBON DIOXIDE GAS SENSING
A.R. Choudhary, **S.A. Waghuley**
Iranian Polymer Journal 28 (2019) 933-941. (Impact Factor: 1.707)

6. TRANSPORT STUDIES ON ONE-POT CHEMICALLY SYNTHESIZED CONDUCTING POLYINDOLE IN AQUEOUS SOLUTION
N. S. Wadatkar, **S. A. Waghuley**
Frontier Research Today 2 (2019) 1-5. (Impact Factor: Still Computing)
7. EXPLORING THE ELECTRICAL AND COMPLEX OPTICAL PROPERTIES OF AS-SYNTHESIZED THIPHENE-INDOLE CONDUCTING COPOLYMERS
N. S. Wadatkar, **S. A. Waghuley**
Heliyon 5 (4) (2019) e01534, 1-20.(Impact Factor: Still Computing)
8. LUMINESCENT PROPERTIES OF CHEMICALLY SYNTHESIZED BISMUTH OXIDE
S.P. Patil, **S.A. Waghuley**
Research Journey International E Research Journal 110 (1) (2019) 86-87. (Impact Factor: 6.261)
9. OPTICAL PROPERTIES OF COPPER OXIDE AND BISMUTHOXIDE NANOPARTICLES
K.G.Kalmegh, **S.A.Waghuley**
Review of Research 1 (3) (2019) 91-95. (Impact Factor: 5.763)
10. STUDIES ON SURFACE PLASMON RESONANCE IN CHEMICALLY SYNTHESIZEDCONDUCTING POLYTHIOPHENE
N.S. Wadatkar, **S.A. Waghuley**
Review of Research 1 (3) (2019) 58-61. (Impact Factor: 5.763)
11. PHOTOVOLTAIC AND STRUCTURAL PROPERTIES OF PTh-co-PANi-SiO₂ COPOLYMER COMPOSITE SYSTEMS
S.R. Takpire , K.R. Nemade, **S.A. Waghuley**
Review of Research 1 (3) (2019) 18-20. (Impact Factor: 5.763)
12. SINGLE STEP SYNTHESIS AND CHARACTERIZATIONOF SODIUM SUPEROXIDE
S.M. Butte, **S.A.Waghuley**
Review of Research 1 (2) (2019) 39-42. (Impact Factor: 5.763)
13. APPLICATION OF CHEMICALLY SYNTHESIZED ZnO NANOPARTICLES AS ANANTIBACTERIAL PAPER
P. R. Kandalkar, **S. A.Waghuley**, Y. A. Gadhikar, K. D. Kamble
Review of Research 1 (1) (2019) 87-91. (Impact Factor: 5.763)
14. FABRICATION AND CHARACTERIZATION OF COST-EFFICIENT SnS/SI COMPOSITE FOR PHOTOVOLTAIC APPLICATION
A.M.Kute, S.R.Takpire, **S.A.Waghuley**
International Journal of Current Engineering And Scientific Research 6(1) (2019) 1007-1010. (Impact Factor: 0.695)
15. ANTIBACTERIAL ACTIVITY OF GRAPHENE OXIDE NANOSHEETS PREPARED BY ELECTROCHEMICAL EXFOLIATION METHOD
P.R. Kandalkar, Y.A. Gadhikar, **S.A. Waghuley**

International Journal of Current Engineering And Scientific Research 6(1) (2019) 768-772. **(Impact Factor: 0.695)**

16. EFFECT OF NANOPARTICLES CONCENTRATION ON THERMAL CONDUCTIVITY OF SrAl_2O_4 -WATER BASED NANOFLUIDS
S.A. Waghuley, Priyanka Dudhe, K.R. Nemade
International Journal of Current Engineering And Scientific Research 6(1) (2019) 518-523. **(Impact Factor: 0.695)**
17. EXPLORING THE COMPLEX DIELECTRIC PROPERTIES OF ONE POT CHEMICALLY ENGINEERED CONDUCTING POLYINDOLE
N.S. Wadatkar, S.A. Waghuley
International Journal of Current Engineering And Scientific Research 6(1) (2019) 47-51. **(Impact Factor: 0.695)**
18. COMPLEX OPTICAL AND THERMAL STUDIES ON AS-SYNTHESIZED CONDUCTING POLYTHIOPHENE
N.S. Wadatkar, S.A. Waghuley
Journal of Electronic Materials 48 (4) (2019) 2219–2225. **(Impact Factor: 1.774)**
19. A NOVEL STUDIES ON ELECTRICAL BEHAVIOUR OF CHEMICALLY SYNTHESIZED CONDUCTING POLYINDOLE
N.S. Wadatkar, S.A. Waghuley
Indian Journal of Physics 92 (12) (2018) 1551–1559. **(Impact Factor: 1.407)**
20. PHOTOVOLTAIC PROPERTIES OF NANOSTRUCTURED COPPER SULFIDE INCORPORATED SILICON RICH COMPOSITES
A.M.Kute, S.A.Waghuley
Journal of Materials Science: Materials in Electronics 29 (2018) 16199–16206. **(Impact Factor: 2.220)**
21. LPG SENSING APPLICATION OF EX SITU PPy- Bi_2O_3 -MOX (MOX= ZrO_2 , Ag_2O and TiO_2) NANOCOMPOSITES
A.R. Choudhary, S.A. Waghuley
Indian Journal of Pure & Applied Physics 56 (2018) 423-427. **(Impact Factor: 0.923)**
22. COMPLEX DIELECTRIC STUDY ON CHEMICALLY ENGINEERED CONDUCTING POLYTHIOPHENE
N. S. Wadatkar, S. A. Waghuley
Aayushi International Interdisciplinary Research Journal 25 (2018) 91-94. **(Impact Factor: 4.574)**
23. RESISTIVE TYPE GAS SENSING AND COMPLEX OPTICAL PROPERTIES OF EX SITU Bi_2O_3 LOADED POLYPYRROLE
A.R. Choudhary, S.A. Waghuley
Optoelectronics and Advanced Materials – RC 12 (1-2) (2018) 117 – 124. **(Impact Factor: 0.445)**
24. SYNTHESIS AND CHARACTERIZATION OF CONJUGATED COPOLYMERS OF PPy-PTh FOR PHOTOVOLTAIC (PV) APPLICATIONS

S.R. Takpire, R.V. Barde, **S.A. Waghuley**
International Journal of Scientific Research in Science and Technology 4(1) (2018)
473-476. (**Impact Factor: 3.587**)

25. CONDUCTION MECHANISM AND DIELECTRIC LOSS IN V_2O_5 - P_2O_5 - B_2O_3 - CeO_2 GLASSES

R.V. Barde, **S.A. Waghuley**
International Journal of Scientific Research in Science and Technology 4(1) (2018)
450-452. (**Impact Factor: 3.587**)

26. APPLICATION OF GRAPHENE QUANTUM DOTS IN ELECTRONICS AND PHOTONICS

A.A. Wadarkar, **S.A. Waghuley**
International Journal of Scientific Research in Science and Technology 4(1) (2018)
283-285. (**Impact Factor: 3.587**)

27. BIOCOMPATIBLE TRANSITION METAL NANOPARTICLES FOR ANTIBACTERIAL APPLICATION

V.V. Deshmukh, **S.A. Waghuley**
International Journal of Scientific Research in Science and Technology 4(1) (2018)
266-270. (**Impact Factor: 3.587**)

28. NANOCOMPOSITES FOR SOLAR CELL APPLICATION

P.A. Ujjainkar, **S.A. Waghuley**
International Journal of Scientific Research in Science and Technology 4(1) (2018)
211-213. (**Impact Factor: 3.587**)

29. SYNTHESIS AND GAS SENSING APPLICATION OF CONDUCTING POLYMER-POLYTHIOPHENE NANOCOMPOSITE

J.A. Tembhe, **S.A. Waghuley**
International Journal of Current Engineering And Scientific Research 5(1) (2018)
182-186. (**Impact Factor: 3.241**)

30. SYNTHESIS OF STABLE CESIUM SUPEROXIDE NANOPARTICLES FOR GAS SENSING APPLICATION BY SOLUTION PROCESSED SPRAY PYROLYSIS METHOD

K.R. Nemade, **S.A. Waghuley**
Applied Nanoscience 7(8) (2017) 753-758. (**Impact Factor: 2.880**)

31. LPG SENSING APPLICATION OF PPy BASED NANOCOMPOSITES AT LOW OPERABLE TEMPERATURE

A.R. Choudhary, **S.A. Waghuley**
Materials Letters 205 (2017) 36-39. (**Impact Factor: 3.423**)

32. SYNTHESIS OF ALUMINUM DOPED ZINC OXIDE NANOPARTICLES FOR ANTIBACTERIAL ACTIVITY

P. R. Kandalkar, Y. A. Gadghikar, **S. A. Waghuley**
International Journal of Research in Biosciences, Agriculture & Technology V (2) (2017) 72-75. (**Impact Factor: 5.060**)

33. NOVEL SYNTHESIS APPROACH FOR STABLE SODIUM SUPEROXIDE (NaO₂) NANOPARTICLES FOR LPG SENSING APPLICATION
K.R. Nemade, **S.A. Waghuley**
International Nano Letters 7(3) (2017) 233-236. (**Impact Factor: 1.015**)

34. PHOTOVOLTAIC APPLICATION OF ZnS LOADED SILICON DIOXIDE RICH COMPOSITES
A.M. Kute, **S.A. Waghuley**
Materials and Design 116 (2017) 1–7. (**Impact Factor: 7.991**)

35. PREPARATION AND CO₂ GAS SENSING BEHAVIOR OF POLYPYRROLE THICK FILM SENSOR
A.R. Choudhary, **S.A. Waghuley**
International Journal on Recent and Innovation Trends in Computing and Communication 5(1) (2017) 395-397. (**Impact Factor: 5.837**)

36. CHEMICAL SYNTHESIS OF COBALT OXIDE (Co₃O₄) NANOPARTICLES USING CO-PRECIPITATION METHOD
K.F. Wadekar, K.R. Nemade, **S.A. Waghuley**
Research Journal of Chemical Sciences 7(1) (2017) 53-55. (**Impact Factor: Still Computing**)

37. INVESTIGATING THE OPTICAL AND STRUCTURAL PROPERTIES OF PANi/Ti POLYMER COMPOSITES FOR PHOTOVOLTAIC APPLICATION
S. R. Takpire, **S. A. Waghuley**
Journal of the Energy Institute 90 (2017) 44-50. (**Impact Factor: 6.186**)

38. CHEMICAL SYNTHESIS AND CHARACTERIZATION OF ALUMINIUM DOPED ZINC OXIDE (AZO) NANOCOMPOSITES- A REVIEW
G.V. Agulla, P.B. Rathod, **S.A. Waghuley**
Research Journal of Chemical Sciences 6(12) (2016) 59-61. (**Impact Factor: Still Computing**)

39. RECENT ADVANCEMENT IN THE GRAPHENE/METAL OXIDE BASED PHOTOVOLTAIC CELL
S.M. Butte, K.R. Nemade, **S.A. Waghuley**
Research Journal of Chemical Sciences 6(11) (2016) 51-54. (**Impact Factor: Still Computing**)

40. SYNTHESIS OF GRAPHENE OXIDE BY HUMMER'S METHOD AND ITS PHYSICAL APPLICATIONS
R.M. Apturkar, K.R. Nemade, P.B. Rathod, **S.A. Waghuley**
Research Journal of Chemical Sciences 6(11) (2016) 48-50. (**Impact Factor: Still Computing**)

41. STUDIES ON PROPERTIES OF AS-SYNTHESIZED CONDUCTING POLYTHIOPHENE THROUGH AQUEOUS CHEMICAL ROUTE
N.S. Wadatkar, **S.A. Waghuley**
Journal of Materials Science: Materials in Electronics 27 (10) (2016) 10573–10581. (**Impact Factor: 2.220**)

42. THERMAL CONDUCTIVITY ENHANCEMENT IN ZINC OXIDE-WATER BASED NANOFLUID SYSTEM
K. R. Nemade, V.K. Varade, **S. A. Waghuley**
Research Journal of Chemical Sciences 6(8) (2016) 43-45. (**Impact Factor: Still Computing**)

43. SYNTHESIS AND CHARACTERIZATION OF CARBYNE
A.R.Pande, K.F. Wadekar, **S.A.Waghuley**
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76. AN INVESTIGATION ON NLO L-ARGININE DOPED ADP SINGLE CRYSTALS

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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.

**Research Papers presented in National/International Conferences
/Seminar /Workshops, etc.:**

1. EFFECT OF CuO NANOPARTICLE SHAPE ON HEAT TRANSFER PROPERTIES OF CuO/R-134a NANOREFRIGERANT
*National E-Conference on Advances in Mathematics and Physics (NCAMP-2021)
Shri Datta Arts, commerce and Science College, Hadgaon, Dist Nanded, Maharashtra, INDIA, May 12, 2021.*
2. CURRENT AND UPCOMING INNOVATIONS IN SPINTRONICS
International E-Conference on Recent Advances In Material Science and nanotechnology (RAMAN-2021), Department of Physics, Arts, Commerce & Science College, Maregaon, Maharashtra, INDIA, Feb 7-9, 2021.
3. NOVEL SYNTHESIS AND CHARACTERIZATION OF PANi/ SODIUM SUPEROXIDE COMPOSITES
International E-Conference on Recent Advances In Material Science and nanotechnology (RAMAN-2021), Department of Physics, Arts, Commerce & Science College, Maregaon, Maharashtra, INDIA, Feb 7-9, 2021.
4. ANTIBACTERIAL APPLICATION OF ZINC DECORATED COPPER NANOPARTICLES
International Web Conference on Advanced Material Science & Nanotechnology (NANOMAT-2020), Department of Physics, Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, Dist. Amravati, Maharashtra, INDIA, June 20-21, 2020.
5. ANTIBACTERIAL TEXTILE APPLICATION OF COPPER-BISMUTH NANOCOMPOSITES
Fifth International Conference on Advances in Materials Science (Online) (ICAMS- 2020), Post-Graduate Department of Physics and IQAC of Raje Ramrao Mahavidyalaya, Jath, Dist: Sangli, INDIA, June 06-07, 2020.
6. APPLICATION OF CHEMICALLY SYNTHESIZED ZnO NANOPARTICLES AS AN ANTIBACTERIAL PAPER
National Conference on Recent Advances in Nanotechnology (RAN-2019), Toshniwal Arts, Commerce & Science College Sengaon, Hingoli, INDIA, Mar 05, 2019.
7. LUMINESCENT PROPERTIES OF CHEMICALLY SYNTHESIZED BISMUTH OXIDE
National Conference on Emerging Trends in Science (NCETS-2019) Vidyabharati Mahavidyalaya, Amravati, INDIA, Feb 01-02, 2019.
8. COMPLEX OPTICAL STUDY OF CHEMICALLY SYNTHESIZED POLYPYRROLE-Bi₂O₃-Ag₂O NANOCOMPOSITE
International Conference on Multifunctional Advanced Materials (ICMAT-2018), Kamla Nehru Mahavidyalaya, Nagpur, INDIA, Oct 05-07, 2018.
9. EXPLORING COMPLEX DIELECTRIC PROPERTIES OF ONE POT CHEMICALLY ENGINEERED CONDUCTING POLYINDOLE

*International Conference on Multifunctional Advanced Materials (ICMAT-2018),
Kamla Nehru Mahavidyalaya, Nagpur, INDIA, Oct 05-07, 2018.*

10. ANTIBACTERIAL ACTIVITY OF GRAPHENE OXIDE NANOSHEETS
PREPARED BY ELECTROCHEMICAL EXFOLIATION METHOD
*International Conference on Multifunctional Advanced Materials (ICMAT-2018),
Kamla Nehru Mahavidyalaya, Nagpur, INDIA, Oct 05-07, 2018.*
11. EFFECT OF NANOPARTICLES CONCENTRATION ON THERMAL
CONDUCTIVITY OF SrAl_2O_4 -WATER BASED NANOFLUIDS
*International Conference on Multifunctional Advanced Materials (ICMAT-2018),
Kamla Nehru Mahavidyalaya, Nagpur, INDIA, Oct 05-07, 2018.*
12. FABRICATION AND CHARACTERIZATION OF COST-EFFICIENT SnS/Si
COMPOSITE FOR PHOTOVOLTAIC APPLICATION
*International Conference on Multifunctional Advanced Materials (ICMAT-2018),
Kamla Nehru Mahavidyalaya, Nagpur, INDIA, Oct 05-07, 2018.*
13. NANORODS OF ZINC OXIDE DECORATED WITH TITANIUM DIOXIDE
FOR IMPROVED PHOTOVOLTAIC DEVICES
*International Conference on
Recent Trends in Science & Technology (ICRTST-2018), SSSKR Innai
Mahavidyalaya, Karanja (lad), Washim, INDIA, Mar 22-23, 2018.*
14. SYNTHESIS AND CHARACTERIZATION OF CONJUGATED
COPOLYMERS OF PPy-PTh FOR PHOTOVOLTAIC (PV) APPLICATIONS
*National Conference on Recent Trends in Synthesis and Characterization of
Futuristic Material in Sciences for the Development of Society (NCRTFMDS-
2018), Late. Bhaskarrao Shingne Arts, Prof. Narayanrao Gawande Science &
Ashalata Gawande Commerce College, Sakharkherda, Buldana, INDIA, Jan 13,
2018.*
15. CONDUCTION MECHANISM AND DIELECTRIC LOSS IN $\text{V}_2\text{O}_5\text{-P}_2\text{O}_5\text{-B}_2\text{O}_3\text{-}$
 CeO_2 GLASSES
*National Conference on Recent Trends in Synthesis and Characterization of
Futuristic Material in Sciences for the Development of Society (NCRTFMDS-
2018), Late. Bhaskarrao Shingne Arts, Prof. Narayanrao Gawande Science &
Ashalata Gawande Commerce College, Sakharkherda, Buldana, INDIA, Jan 13,
2018.*
16. APPLICATION OF GRAPHENE QUANTUM DOTS IN ELECTRONICS AND
PHOTONICS
*National Conference on Recent Trends in Synthesis and Characterization of
Futuristic Material in Sciences for the Development of Society (NCRTFMDS-
2018), Late. Bhaskarrao Shingne Arts, Prof. Narayanrao Gawande Science &
Ashalata Gawande Commerce College, Sakharkherda, Buldana, INDIA, Jan 13,
2018.*
17. BIOCOMPATIBLE TRANSITION METAL NANOPARTICLES FOR
ANTIBACTERIAL APPLICATION

National Conference on Recent Trends in Synthesis and Characterization of Futuristic Material in Sciences for the Development of Society (NCRTFMDS-2018), Late. Bhaskarrao Shingne Arts, Prof. Narayanrao Gawande Science & Ashalata Gawande Commerce College, Sakharkherda, Buldana, INDIA, Jan 13, 2018.

18. NANOCOMPOSITES FOR SOLAR CELL APPLICATION

National Conference on Recent Trends in Synthesis and Characterization of Futuristic Material in Sciences for the Development of Society (NCRTFMDS-2018), Late. Bhaskarrao Shingne Arts, Prof. Narayanrao Gawande Science & Ashalata Gawande Commerce College, Sakharkherda, Buldana, INDIA, Jan 13, 2018.

19. SYNTHESIS AND GAS SENSING APPLICATION OF CONDUCTING POLYMER-POLYTHIOPHENE NANOCOMPOSITE

National Conference on Recent Trends in Synthesis and Characterization of Futuristic Material in Sciences for the Development of Society (NCRTFMDS-2018), Late. Bhaskarrao Shingne Arts, Prof. Narayanrao Gawande Science & Ashalata Gawande Commerce College, Sakharkherda, Buldana, INDIA, Jan 13, 2018.

20. CHARACTERISED THE PANi-PTh-Ti COPOLYMER FOR PHOTOVOLTAIC APPLICATION

International Conference on Recent Trends in Science and Technology : Sustainable Development Through Scientific approach (ICRTS-2017), SSES Amt's Science College, congress nagar, Nagpur, INDIA, 12-14 Jul 2017.

21. STUDIES ON SURFACE PLASMON RESONANCE IN CHEMICALLY SYNTHESIZED CONDUCTING POLYTHIOPHENE

International Conference on Recent Trends in Science and Technology : Sustainable Development Through Scientific approach (ICRTS-2017), SSES Amt's Science College, congress nagar, Nagpur, INDIA, 12-14 Jul 2017.

22. SYNTHESIS OF ALUMINIUM DOPED ZINC OXIDE NANOPARTICLES FOR ANTIBACTERIAL ACTIVITY

International Conference on Recent Trends in Science and Technology : Sustainable Development Through Scientific approach (ICRTS-2017), SSES Amt's Science College, congress nagar, Nagpur, INDIA, 12-14 Jul 2017.

23. SYNTHESIS OF CdS INCORPORATED SiO₂ NANOCOMPOSITE FOR PHOTOVOLTAIC APPLICATION

International Conference on Recent Trends in Science and Technology : Sustainable Development Through Scientific approach (ICRTS-2017), SSES Amt's Science College, congress nagar, Nagpur, INDIA, 12-14 Jul 2017.

24. PREPARATION AND CO₂ GAS BEHAVIOUR OF POLYPYRROLE THICK FILM SENSOR

International Conference on Recent Trends in Engineering Science and Technology, Suresh Deshmukh College of Engineering, Selukate, Wardha (M.S.) INDIA, Jan 21-22, 2017.

25. ZIRCONIUM DIOXIDE NANOPARTICLES FOR SUNSCREEN APPLICATION IN ARTIFICIAL PHOTOSYNTHESIS
*National Conference on Plant Diversity: Past and Present (Pdpp-2016),
Department of Botany, Sant Gadge Baba Amravati University, Amravati (M.S.)
INDIA, Dec 30-31, 2016.*
26. CHEMICAL SYNTHESIS OF ALKALI SUPEROXIDES FOR ELECTRONIC AND BIOLOGICAL APPLICATIONS
*National Seminar On Nanotechnology and Nanoengineering (NSNN-2016),
Department of Chemistry, Arts, Commerce and Science College, Kiran nagar,
Amravati (M.S.) INDIA, Sept 29, 2016.*
27. ANTIBACTERIAL ACTIVITY OF ONE POT SYNTHESIZED SILVER NANOPARTICLES
*National Seminar On Nanotechnology and Nanoengineering (NSNN-2016),
Department of Chemistry, Arts, Commerce and Science College, Kiran nagar,
Amravati (M.S.) INDIA, Sept 29, 2016.*
28. GRAPHENE ALLOTROPIC FORM OF CARBON: CHEMICAL SYNTHESIS
*National Seminar On Nanotechnology and Nanoengineering (NSNN-2016),
Department of Chemistry, Arts, Commerce and Science College, Kiran nagar,
Amravati (M.S.) INDIA, Sept 29, 2016.*
29. NANOTECHNOLOGY BASIS SPINTRONICS MATERIAL APPLICATION
*National Seminar On Nanotechnology and Nanoengineering (NSNN-2016),
Department of Chemistry, Arts, Commerce and Science College, Kiran nagar,
Amravati (M.S.) INDIA, Sept 29, 2016.*
30. CHEMICAL SYNTHESIS OF PEROVSKITE NANOMATERIALS FOR SOLAR CELL APPLICATION
*National Seminar On Nanotechnology and Nanoengineering (NSNN-2016),
Department of Chemistry, Arts, Commerce and Science College, Kiran nagar,
Amravati (M.S.) INDIA, Sept 29, 2016.*
31. SYNTHESIS AND OPTICAL STUDY OF HEXAGONAL ZnO NANORODS USING CHEMICAL PRECIPITATION
*National Seminar On Nanotechnology and Nanoengineering (NSNN-2016),
Department of Chemistry, Arts, Commerce and Science College, Kiran nagar,
Amravati (M.S.) INDIA, Sept 29, 2016.*
32. ANTIBACTERIAL ACTIVITY OF CHEMICALLY SYNTHESIZED FEW LAYERED GRAPHENE
*National Seminar On Nanotechnology and Nanoengineering (NSNN-2016),
Department of Chemistry, Arts, Commerce and Science College, Kiran nagar,
Amravati (M.S.) INDIA, Sept 29, 2016.*
33. CHEMICAL SYNTHESIS AND CHARACTERIZATION OF AZO NANOCOMPOSITES

*National Seminar On Nanotechnology and Nanoengineering (NSNN-2016),
Department of Chemistry, Arts, Commerce and Science College, Kiran nagar,
Amravati (M.S.) INDIA, Sept 29, 2016.*

34. SYNTHESIS AND APPLICATIONS OF METAL OXIDE-POLYMER NANOCOMPOSITES
*National Seminar On Nanotechnology and Nanoengineering (NSNN-2016),
Department of Chemistry, Arts, Commerce and Science College, Kiran nagar,
Amravati (M.S.) INDIA, Sept 29, 2016.*
35. DARK ENERGY BIANCHI TYPE COSMOLOGICAL MODEL WITH VARIABLE DECELERATION PARAMETER
*National Conference On Recent Advances In Mathematical Sciences(NCRAMS-2016), Department of Mathematics, Sant Gadge Baba Amravati University,
Amravati (M.S.) INDIA, Jun 17-18, 2016.*
36. ELECTROMAGNETIC SHIELDING PROPERTIES OF FEW LAYERED GRAPHENE
*National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University,
Amravati (M.S.) INDIA, Jan 29- 30, 2016.*
37. SYNTHESIS OF POLYMER COMPOSITE BY CHEMICAL ROUTE FOR PHOTOVOLTAIC EFFECTS
*National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University,
Amravati (M.S.) INDIA, Jan 29- 30, 2016.*
38. COMPLEX OPTICAL STUDY OF CHEMICALLY SYNTHESISED POLYPYRROLE
*National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University,
Amravati (M.S.) INDIA, Jan 29- 30, 2016.*
39. SYNTHESIS, STRUCTURAL AND OPTICAL CHARACTERIZATION OF CADMIUM SULFIDE
*National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University,
Amravati (M.S.) INDIA, Jan 29- 30, 2016.*
40. CHEMICAL SYNTHESIS AND CHARACTERIZATION OF ALUMINIUM DOPED ZINC OXIDE (AZO) NANOCOMPOSITES
*National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University,
Amravati (M.S.) INDIA, Jan 29- 30, 2016.*
41. SYNTHESIS OF GRAPHENE OXIDE BY HUMMER'S METHOD AND ITS PHYSICAL APPLICATIONS

National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

42. SYNTHESIS TECHNIQUES AND APPLICATIONS OF METAL OXIDE NANOPARTICLES

National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

43. PHOTOVOLTAIC APPLICATION OF GRAPHENE/METAL OXIDE BASED NANOCOMPOSITES

National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

44. SUPERCAPACITIVE APPLICATION OF CONDUCTING POLYMERS

National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

45. THERMAL CONDUCTIVITY STUDY OF METAL OXIDE BASED NANOFLUIDS

National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

46. SYNTHESIS AND CHARACTERIZATION OF CARBYNE

National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

47. THERMAL CONDUCTIVITY ENHANCEMENT IN ZINC OXIDE-WATER BASED NANOFLUID SYSTEM

National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

48. SUPERCOOLING PERFORMANCE OF MgO-H₂O BASED NANOFLUIDS WITH SODIUM DODECYLSULFATE

National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

49. CHEMICAL SYNTHESIS OF COBALT OXIDE (Co₃O₄) NANOPARTICLES USING CO-PRECIPITATION METHOD

National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

50. COMPLEX OPTICAL STUDY OF CERIUM NANOPARTICLES IN NEAR INFRARED REGION FOR HYPERSPECTRAL IMAGING
National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

51. SYNTHESIS AND CHARACTERIZATION OF ZrO₂ NANOPARTICLES
National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016), Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Jan 29- 30, 2016.

52. HEAT BALANCE INTEGRAL METHOD FOR ANALYSIS OF ENHANCEMENT IN THERMAL CONDUCTIVITY OF NANOFLUIDS
International Conference on General Relativity (ICGR-2015), Department of Mathematics, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA, Nov 25-28, 2015.

53. 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.

54. 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.

55. 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.

56. 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.

57. 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.

58. 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.

59. 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.
60. 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.
61. 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.
62. 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.
63. 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.
64. 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.
65. 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.
66. 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- 06; Thesis submitted- 00;****Ph.D. Registered/Admitted- 03; M.Phil- 06; M.Sc. Projects- 90****Ph.D Supervised.:**

S. No.	Name of the Student	Title of Synopsis	Registration /Award No/ Date	Status Awarded/ Submitted/ Applied	Remarks if any
1.	Sh. A.M. Kute	INVESTIGATION ON SILICON RICH METAL SULPHIDE NANOCOMPOSITES FOR SOLAR CELL APPLICATION	Gazette No. 143/2019 Dated 28-11-19	Awarded	File No.:6618
2.	Sh. A.R. Chaudhary	CONDUCTING POLYPYRROLE-BISMUTH OXIDE NANOCOMPOSITE THIN FILMS: SYNTHESIS CHARACTERIZATION AND GAS SENSING PROPERTIES	Gazette No. 112/2019 Dated 27-06-19	Awarded	File No.:4665
3.	Sh. S.R. Takpire	NOVEL APPROACH TOWARDS STUDIES ON TRANSITION PHOTOVOLTAIC CHARACTERISTIC OF ANILINE-THIOPHENE COPOLYMERS	Gazette No. 124/2017 Dated 27-01-17	Awarded	File No.:6619
4.	Sh. N.S. Wadatkar	INVESTIGATION OF ELECTRICAL AND THERMAL PROPERTIES OF CHEMICALLY SYNTHESIZED THIOPHENE-INDOLE CONDUCTING COPOLYMER	Gazette No. 70/2016 Dated 28-10-16	Awarded	File No.:5841
5.	Sh. 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
6.	Sh. 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
7.	Sh. N. D. Khandare	STUDY OF ELECTRICAL PROPERTIES OF SUPEROXIDE DISPERSED BORATE CONDUCTING GLASS SYSTEM	SGBAU/Ph.D./PHY/ 7600/2015 w.e.f. 15.01.2015	Registered	File No.:7600
8.	Ku. N.S.Korde	MAGNETORESISTANCE EFFECT IN CO-Ni/ GRAPHENE FOR SPINTRONICS APPLICATION	SGBAU/PHY/507/ 2020 dated 10/01/2020	Admitted	--

9.	Ku.S.M.Butte	SUPEROXIDE DOPED NANOCOMPOSITES FOR APPLICATION OF SUPERCAPACITOR	SGBAU/PHY/507/2019 dated 16/04/2019	Admitted	--
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M. Phil. Dissertations Supervised:

S. No.	Name of the Student	Title of dissertation	Academic Year	Status
1	Ku. K.M. Kalmegh	SUPERCAPACITIVE APPLICATION OF CHEMICALLY SYNTHESIZED POLYTHIOPHENE NANOCOMPOSITES	2018-19	Completed
2	Sh. N. S. Wadatkar	EFFECT OF POLY(VINYL ACETATE) ON DC CONDUCTIVITY OF CHEMICALLY SYNTHESIZED POLYANILINE COMPOSITE THIN FILMS	2008-09	Completed
3	Sh. V. N. Manjare	CHARECTERIZATION AND DC ELECTRICAL CONDUCTIVITY OF POLYTHIOPHENE/V ₂ O ₅ COMPOSITES	2008-09	Completed
4	Ku. V. R. Raut	ROOM TEMPERATURE CO ₂ GAS SENSING RESPONSE BASED ON CHEMICALLY SYNTHESIZED CONDUCTING POLYMER-POLYANILINE	2008-09	Completed
5	Sh. Y. V. Joshi	SENSITIVITY, STABILITY AND DYNAMIC RESPONSE OF CeO ₂ BASED GAS SENSORS	2008-09	Completed
6	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.	Sh. S.V. Tayade	METAL OXIDE NANOMATERIAL (ZnO) FOR HUMIDITY SENSING APPLICATION	2019-20	Completed
2.	Sh. A.V. Pariskar	CONJUGATED POLYMERS FOR THE APPLICATION OF SUPERCAPACITOR	2019-20	Completed
3.	Sh. M.S. Kailuke	SYNTHESIS AND APPLICATIONS OF CERAMIC CONDUCTING GLASSES	2019-20	Completed
4.	Ku. P.P. Deshmukh	STUDY OF THERMAL CONDUCTIVITY OF SnO ₂ -WATER BASED NANOFLUIDS	2019-20	Completed
5.	Ku. P.R. Shrirao	ANTIBACTERIAL ACTIVITY OF SODIUM SUPEROXIDE (NaO ₂) NANOPARTICLES	2019-20	Completed
6.	Ku. P.S. Hinge	SYNTHESIS OF CARBON NANOTUBES FOR THE APPLICATION OF BATTERY ELECTRODE	2019-20	Completed
7.	Ku. P.K. Kodape	BATTERY APPLICATIONS OF NANOPARTICLES	2019-20	Completed
8.	Ku. P.S. Dikondwar	APPLICATION OF NANOMATERIAL AS GAS SENSORS	2019-20	Completed

9.	Ku. R.N. Yadav	PHOTOVOLTAIC APPLICATIONS OF CdS Thin Film	2019-20	Completed
10.	Ku. S.A. Kadu	NANOCOMPOSITES FOR SUPERCAPACITOR APPLICATION	2019-20	Completed
11.	Ku. S.R. Waghmare	GRAPHENE OXIDE NANOCOMPOSITES FOR ANTIBACTERIAL ACTIVITY	2019-20	Completed
12.	Sh. V.B. Meshram	SYNTHESIS OF GRAPHENE OXIDE AND ITS APPLICATION AS WATER PURIFIER	2019-20	Completed
13.	Ku. P.V. Khadse	THIN FILM OF ALUMINUM-ZINC OXIDE (AZO) NANOPARTICLES	2019-20	Completed
14.	Ku. R.D. Rathod	APPLICATION OF NANOMATERIALS FOR GIANT MAGNETORESISTANCE	2019-20	Completed
15.	Ku. V.S. Raut	BIOCOMPATIBLE NANOCOMPOSITES Ni DOPED ZnO FOR ANTIBACTERIAL ACTIVITY	2019-20	Completed
16.	Ku. N.V. Dolas	SYNTHESIS AND CHARACTERIZATION OF CARBON NANOTUBES.	2018-19	Completed
17.	Ku. N.S. Korde	MAGNETORESISTANCE OF THIN FILMS WITH THE SPECIAL REFERENCE TO THE SPINTRONICS.	2018-19	Completed
18.	Ku. P.R. Kasture	SYNTHESIS OF Ni-Zn METAL OXIDE NANOCOMPOSITES	2018-19	Completed
19.	Ku. D.A. Patil	BAND GAP ENGINEERING OF STRONTIUM OXIDE NANOPARTICLES	2018-19	Completed
20.	Ku. A.P. Wakekar	SYNTHESIS AND CHARACTERIZATION OF GRAPHENE QUANTUM DOTS	2018-19	Completed
21.	Sh. D.R. Bhopat	THERMAL CONDUCTIVITY OF Cu-Al METAL OXIDE NANOFLUID	2018-19	Completed
22.	Ku. K.A. Dhote	SYNTHESIS AND CHARACTERIZATION OF POLYTHIOPHENE NANOCOMPOSITES FOR ELECTRONIC APPLICATION	2018-19	Completed
23.	Ku. V.V. Deshmukh	ANTIBACTERIAL APPLICATION OF BIOCOMPATIBLE TRANSITION METAL NANOPARTICLES	2017-18	Completed
24.	Ku. J.A. Tembhe	SYNTHESIS OF CONDUCTING POLYMER-POLYTHIOPHENE NANOCOMPOSITE FOR SUPERCAPACITOR APPLICATION	2017-18	Completed
25.	Ku. A.A. Wadatkar	SYNTHESIS OF GRAPHENE QDs WITH DIFFERENT MOLAR CONCENTRATION OF SULPHURIC ACID FOR ANTIBACTERIAL APPLICATION	2017-18	Completed
26.	Ku. M.P. Gurudasani	SYNTHESIS AND CHARACTERIZATION OF GRAPHENE-BISMUTH NANOCOMPOSITES FOR ANTIMICROBIAL ACTIVITY	2017-18	Completed
27.	Ku. P.A. Ujjankar	POLYANILINE NANOCOMPOSITES FOR SUPERCAPACITOR APPLICATION	2017-18	Completed
28.	Sh. A.S. Agrawal	METAL OXIDE THIN FILMS BY DIP COATING METHOD	2017-18	Completed

29.	Ku. H.K. Dhamale	CHEMICAL SYNTHESIS OF GRAPHENE BY USING HUMMER'S METHOD FOR ANTIBACTERIAL ACTIVITY	2016-17	Completed
30.	Ku. P.D. Thorat	SYNTHESIS OF POLYINDOLE METAL OXIDE (Bi_2O_3) NANOCOMPOSITES AND ITS APPLICATION	2016-17	Completed
31.	Ku. P.S. Mairal	GRAPHENE SYNTHESIS BY USING ELECTROCHEMICAL EXFOLIATION METHOD	2016-17	Completed
32.	Ku. A.V. Chaudhari	PREPARATION AND CHARACTERIZATION OF POLYMER NANOCOMPOSITE CONTAINING ZIRCONIUM	2016-17	Completed
33.	Ku. M.G. Taiwade	CHEMICAL SYNTHESIS OF SODIUM SUPEROXIDE FOR ANTIBACTERIAL ACTIVITY APPLICATION	2016-17	Completed
34.	Sh. R.D. Chopade	THIN FILMS OF ZnO and CuO NANOMATERIALS FABRICATED BY SPIN COATING METHOD	2016-17	Completed
35.	Ku. S.R. Taral	SYNTHESIS OF PEROVSKITE NANOMATERIAL (PbTiO_3) THROUGH SOL-GEL TECHNIQUE	2016-17	Completed
36.	Ku.S.S. Mihani	SYNTHESIS AND CHARACTERIZATION OF SOME TRANSITION METAL OXIDE NANOPARTICLES.	2015-16	Completed
37.	Ku.M.P. Rathi	SYNTHESIS OF POLYTHIOPENE AND ITS APPLICATION.	2015-16	Completed
38.	Ku.S.M. Butte	PHOTOVOLTAIC APPLICATION OF GRAPHENE COPPER OXIDES BASED NANOCOMPOSITES.	2015-16	Completed
39.	Ku.G.V.Agulla	SYNTHESIS AND CHARACTERIZATION OF ALUMINIUM DOPED ZINC OXIDE NANOPARTICLES.	2015-16	Completed
40.	Ku.R.M. Apturkar	SYNTHESIS AND CHARACTERIZATION OF GRAPHENE BY USING MODIFIED ELECTROCHEMICAL EXFOLIATION METHOD.	2015-16	Completed
41.	Sh.V.K. Varade	COMPARATIVE STUDY OF THERMAL CONDUCTIVITY ENHANCEMENT IN CeO_2 -WATER BASED NANOFLUIDS PREPARED BY ONE STEP AND TWO STEP METHOD.	2015-16	Completed
42.	Ku.A.R. Pande	SYNTHESIS AND CHARACTERIZATION OF CARBYNE.	2015-16	Completed
43.	Ku.R.S. Bedarkar	ANTIBACTERIAL ACTIVITY OF POLYANILINE/SILVER NANOCOMPOSITES	2014-15	Completed
44.	Ku.S.G. Kulkarni	RESISTIVE GAS SENSING APPLICATION OF SODIUM SUPEROXIDE NANOPARTICLES	2014-15	Completed
45.	Ku.S.M. Tagade	SYNTHESIS AND CHARACTERIZATION OF ZrO_2 NANOPARTICLES	2014-15	Completed
46.	Sh.C.A. Khodaskar	PREPARATION OF THIN FILMS OF METAL OXIDES BY SPRAY	2014-15	Completed

		PYROLYSIS TECHNIQUE		
47.	Ku.S.R. Thakur	SYNTHESIS AND CHARACTERIZATION OF POLYANILINE-POLYPYROGALLOL COPOLYMERS FOR ANTIBACTERIAL APPLICATION	2014-15	Completed
48.	Ku.M.P. Panpaliya	SYNTHESIS AND CHARACTERIZATION OF Bi_2O_3 QUANTUM DOTS	2014-15	Completed
49.	Ku. S.A. Tajne	STUDY OF RESISTIVITY OF CUPRATE BASED SUPERCONDUCTORS	2013-14	Completed
50.	Sh. P.B. Rathod	PHOTOVOLTAIC APPLICATION OF GRAPHENE-METAL OXIDE NANOCOMPOSITES	2013-14	Completed
51.	Sh. G.V. Chavan	SYNTHESIS AND CHARACTERIZATION OF POLYANILINE/ZINC OXIDE NANOCOMPOSITE FOR SUPERCAPACITIVE APPLICATION	2013-14	Completed
52.	Sh. K.F. Wadekar	SYNTHESIS, CHARACTERIZATION AND GAS SENSING APPLICATION OF ALUMINIUM NITRIDE-POLYPYRROLE NANOCOMPOSITES	2013-14	Completed
53.	Ku. S.G. Shahane	STUDY OF TRANSPORT PROPERTIES OF CONDUCTING POLYMER-POLYTHIOPHENE	2013-14	Completed
54.	Ku. P.A. Danao	SYNTHESIS AND PHOTOVOLTAIC PROPERTIES OF GRAPHENE/ TiO_2 NANOCOMPOSITES	2012-13	Completed
55.	Ku. M.N. Telkar	STUDY OF ELECTRICAL AND OPTICAL PROPERTIES OF $60\text{V}_2\text{O}_5-(30-x)\text{Bi}_2\text{O}_3-x\text{B}_2\text{O}_3$ GLASS SYSTEM	2012-13	Completed
56.	Sh. H.P. Ingle	CARBON NANORODS SYNTHESIS USING ARC DISCHARGE METHOD	2012-13	Completed
57.	Ku. J.K. Datir	GAS SENSING PROPERTIES OF GRAPHENE- SnO_2 THICK FILMS	2012-13	Completed
58.	Ku. P.J. Deshmukh	SYNTHESIS, CHARACTERIZATION AND TRANSPORT PROPERTIES OF $60\text{V}_2\text{O}_5-15\text{B}_2\text{O}_3-(25-x)\text{Bi}_2\text{O}_3-x\text{Fe}_2\text{O}_3$ GLASS SYSTEM	2012-13	Completed
59.	Ku. M.S. Tapdiya	SYNTHESIS OF CARBON NANORODS BY ARC DISCHARGE METHOD USING FERROUS CATALYST	2012-13	Completed
60.	Sh. Y.A. Wadhal	ULTRASONIC STUDY OF PLATINUM DISPERSED AQUEOUS SOLUTION	2012-13	Completed
61.	Ku. M.A. Landge	GAS SENSING APPLICATION OF GRAPHENE/ Sb_2O_3 NANOCOMPOSITES	2012-13	Completed
62.	Sh. A.R. Solanke	SYNTHESIS AND CHARACTERIZATION OF CARBON NANORODS	2012-13	Completed
63.	Ku. R.K. Wankhade	STUDY OF ACOUSTICAL PROPERTIES OF SOME DILUTED METALS AND NON METALS SOLUTIONS	2012-13	Completed
64.	Ku. P.M. Wankhade	IONIC CONDUCTION IN $60\text{V}_2\text{O}_5-25\text{Bi}_2\text{O}_3-(10-x)\text{B}_2\text{O}_3-x\text{TiO}_2$ GLASS SYSTEM	2012-13	Completed

65.	Sh. M.R. Kakade	ACOUSTICAL AND MOLECULAR INTERACTION STUDY OF COMPLEX LIQUID MIXTURES USING ULTRASONIC TECHNIQUE AT ROOM TEMPERATURE	2012-13	Completed
66.	Ku. M.V. Patil	STUDY OF ION MOBILITY IN $50V_2O_5-(50-x)B_2O_3-xP_2O_5$ GLASS SYSTEM	2011-12	Completed
67.	Ku. K.V. Deshmukh	OPTICAL AND ELECTRICAL TRANSPORT PROPERTIES OF PHOSPO-VANADATE GLASSES	2011-12	Completed
68.	Ku. D.N. Wankhede	MEASUREMENT OF TRANSFERENCE NUMBER OF GRAPHENE BASE $60V_2O_5-(36-x)B_2O_3-4P_2O_5-xGO$ GLASS SYSTEM	2011-12	Completed
69.	Ku. B.A. Hinge	SYNTHESIS, CHARACTERIZATION AND TRANSPORT PROPERTIES OF $50V_2O_5-(50-x)B_2O_3-xCeO_2$ GLASS SYSTEM	2011-12	Completed
70.	Ku. P.S. Durshetwar	GRAPHENE/POLYINDOLE NANOCOMPOSITES CHEMIREISTORS AS NITROGEN GAS SENSORS	2011-12	Completed
71.	Ku. R.A. Wathodkar	NITROGEN GAS DETECTION USING STRONTIUM QUANTUM DOTS DOPED PTh COMPOSITES	2011-12	Completed
72.	Ku. A.T. Yadgire	LPG SENSING APPLICATION OF PANi- Y_2O_3 COMPOSITE THIN FILMS	2011-12	Completed
73.	Ku. P.A. Pawar	GREEN HOUSE GAS (CO_2) MONITORING BY PANi- Bi_2O_3 NANOCOMPOSITES	2011-12	Completed
74.	Ku. D.K. Pradhan	OPTICAL AND ELECTRICAL PROPERTIES OF CeO_2 DOPED PANi NANOCOMPOSITES	2011-12	Completed
75.	Mrs. S.P. Wankhade	MOLECULAR INTERACTION STUDY IN BINARY LIQUID SOLUTION USING ULTRASONIC TECHNIQUE	2010-11	Completed
76.	Sh. K.A. Koparkar	SENSING RESPONSE OF WO_3 /PANI COMPOSITE FILMS TO CARBON DIOXIDE GAS.	2010-11	Completed
77.	Ku. S.D. Gudadhe	MOLECULAR INTERACTION STUDIES IN OXALIC ACID.	2010-11	Completed
78.	Sh. K.R. Nemade	EFFECT OF OXIDANT ON GAS SENSING PROPERTIES OF CuO/PTh NANOCOMPOSITES.	2010-11	Completed
79.	Ku. K.M. Kakde	MOLECULAR INTERACTION IN $ZnCl_2$ AQUEOUS SOLUTION.	2010-11	Completed
80.	Sh. R.S. Palspagar	CARBON DIOXIDE GAS SENSING APPLICATION OF CERIUM DOPED POLYANILINE THICK FILMS.	2010-11	Completed
81.	Ku. P.S. Rathi	ACOUSTICAL STUDIES ON MOLECULAR INTERACTION IN $CdCl_2$ AQUEOUS SOLUTION AT ROOM TEMPERATURE.	2010-11	Completed
82.	Sh. N.S. Sawala	PREPARATION, CHARETERIZATION AND CO_2 SENSING APPLICATION OF PANI/PTh COPOLYMER.	2010-11	Completed
83.	Ku. P.A. Bobde	ACOUSTICAL STUDIES ON MOLECULAR INTERACTION IN TIN(II) CHLORIDE AQUEOUS	2010-11	Completed

		SOLUTION AT ROOM TEMPERATURE.		
84.	Ku. S.S. Bais	STUDY OF WEIN BRIDGE OSCILLATOR USING CE AMPLIFIER.	2009-10	Completed
85.	Sh. M.S. Ambedare	TO STUDY THE PULSE WIDTH MODULATION.	2009-10	Completed
86.	Sh. S.D. Gotey	SYNTHESIS AND DC CONDUCTIVITY OF PTh/CeO ₂ COMPOSITES.	2009-10	Completed
87.	Ku. S.B. Lavhale	CARBON DIOXIDE GAS SENSING APPLICATION OF CeO ₂ .	2009-10	Completed
88.	Ku. S.D. Bodkhe	GAS SENSING PROPERTIES OF PTh/CeO ₂ COMPOSITES.	2009-10	Completed
89.	Ku. P.A. Tayade	TO STUDY AND DESIGN AMPLITUDE MODULATION TRANSMITTER.	2009-10	Completed
90.	Ku. A.B. Chandak	TO STUDY TUNED RADIO FREQUENCY RECEIVER.	2009-10	Completed
91.	S.N.S. Karim	TO STUDY AND DESIGN FREQUENCY MODULATION RECEIVER.	2009-10	Completed
92.	Sh. S.P. Karpe	TO STUDY AND DESIGN FREQUENCY MODULATION TRANSMITTER.	2009-10	Completed
93.	Sh. V.G. Pohurkar	TO STUDY AND DESIGN PULSE WIDTH MODULATION.	2009-10	Completed
94.	Sh. Y.R. Giri	TO STUDY AND DESIGN HETERODYNE RECEIVER.	2009-10	Completed
95.	Ku. M.S. Padghan	SENSITIVITY OF CHEMICALLY SYNTHESIZED CONDUCTING POLYMER POLYPYRROLE TO O ₂ GAS	2008-09	Completed
96.	Sh. P.J. Jadhao	EFFECT OF NORMALITY OF KBr SOLUTION ON DIELECTRIC CONSTANT AT DIFFERENT TEMPERATURES.	2007-08	Completed
97.	Sh. A.B. Ajmire	EFFECT OF MAGNETIC FIELD ON FORWARD RESISTANCE OF OA79 GERMANIUM DIODE.	2007-08	Completed
98.	Sh. R.D. Mahatme	SIMPLE METHOD FOR GENERATING LISSAJOUS FIGURES.	2007-08	Completed
99.	Ku. S.B. Chandak	EFFECT OF MAGNETIC FIELD ON CHARACTERISTICS OF UNIJUNCTION TRANSISTOR.	2007-08	Completed
100.	Ku. S.R. Raut	STUDY OF 5-STATE LOGIC PROBE.	2006-07	Completed
101.	Ku. A.K. Chikhalkar	STUDY OF UNIVERSAL LOGIC PROBE.	2006-07	Completed
102.	Sh. R.T. Nagrale	DESIGN AND CONSTRUCTION OF PULSE GENERATOR.	2005-06	Completed
103.	Ku. S.P. Thombare.	VARIATION OF BOILING POINT AND DIELECTRIC CONSTANT OF WATER WITH NaCl.	2005-06	Completed
104.	Ku. D.A. Pande	TO STUDY THE CHARACTERISTICS OF GERMANIUM DIODE IN MAGNETIC FIELD.	2004-05	Completed
105.	Ku. V.R. Raut	TO STUDY THE CHARACTERISTICS OF ZENER DIODE IN MAGNETIC FIELD.	2004-05	Completed

Invited Talks/ Guest Lectures /Session Chaired at national /international / State etc. Conferences /Seminars, etc.

Sr. No.	Title of lecture / Academic Session	Title of Programme Conference/ Seminar/Workshop/ Event	Organized by and date	Whether international /national / state / regional / college or university level
1.	Intellectual Property Rights	One Day Online Workshop On "Intellectual Property Rights	G. S. Science, Arts and Commerce College, Khamgaon, Buldana, INDIA, Jul 22, 2021.	National
2.	Intellectual Property Rights	National workshop on Intellectual Property Rights	Shri Shivaji Science & Arts College Chikhli, Dist. Buldana, INDIA, Jul 10, 2021.	National
3.	Recent Advances in Nanomaterials: Synthesis and Applications	National Webinar on Advances in Material Science	Mithibai College of Arts, Chauhan Institute of Science & Amrutben Jivanlal College of Commerce and Economics, Vile Parle (West), Mumbai, INDIA, Jul 10, 2021.	National
4.	National Intellectual Property Rights and IP Management for Startups	Webinar on the Occasion of World IP Day	MF Arts, Commerce and SC Science Mv. Warud, INDIA, Apr 30, 2021	National
5.	Intellectual Property Rights and Plagiarism	Online Workshop on Intellectual Property Rights	RS Science College, Chandur Rly and VV Mv., Nandgaon Khand, INDIA, Apr 26, 2021	National
6.	Intellectual Property Rights	National Level Webinar on Intellectual Property Rights (IPR) and Research Ethics	IQAC, Jijamata Mahavidyalay, Buldana, Maharashtra, INDIA, Mar 2, 2021	National
7.	Solar Cell Application of Silicon Decorated Copper Sulfide Nanocomposites	International E-Conference on Recent Advances in Material Science and nanotechnology (RAMAN-2021),	Department of Physics, Arts, Commerce & Science College, Maregaon, Maharashtra, INDIA, Feb 7-9, 2021.	International
8.	Research writing, Plagiarism	National online workshop on	Adarsha Science, Jairamdas Bhagchand	National

	checking and submission	"PARADIGMS OF RESEARCH: FROM SYNOPSIS TO THESIS"	Arts & Birla Commerce Mahavidyalaya Dhamangaon (Rly.) INDIA, Dec 9, 2020	
9.	Chaired a Technical Session	National Level Webinar on 'Recent Advances in Nanomaterials (RAIN-2020)	Arts, Commerce and Science College, Chikhaldara, dist Amravati, INDIA, Dec 05, 2020	National
10.	Chaired a session of Technical Talk	Dr. A. P. J. Abdul Kalam Lecture Series	Arts, Commerce and Science College, Maregaon, Yewatmal, INDIA, Oct 27-29, 2020	National
11.	Research writing, Plagiarism checking and PhD Thesis submission	Five Days' Online National Level Workshop On "Paradigms of Research: From Synopsis to Thesis"	Adarsha Science, Jairamdas Bhagchand Arts & Birla Commerce Mahavidyalaya Dhamangaon (Rly.), Amravati, INDIA, Oct 05-09, 2020	National
12.	Band Gap Engineering of Nanomaterials for Artificial Photosynthesis	International Web Conference on Advanced Material Science & Nanotechnology (NANOMAT-2020)	Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, Dist. Amravati, INDIA, Jun 20-21, 2020	International
13.	Fundamentals of Intellectual Property Rights (IPR)	Online One day State Level Workshop on Fundamentals of Intellectual Property Rights and career advancement scheme	Internal Quality Assurance Cell (IQAC), Arvindbabu Deshmukh Mahavidyalaya, Bharsingi, INDIA, May 26, 2020	State
14.	Research and Innovations	Faculty Development Program (Online): An Approach for Technical Skill Enhancement (FDPTSE-2020)	Internal Quality Assurance Cell (IQAC), Toshniwal Arts, Commerce and Science College, Sengaon, Dist. Hingoli, INDIA, May 5-10, 2020	National
15.	Importance of Research, Innovations and Extension In NAAC Accreditation	Webinar on NAAC Criterion III: Research, Innovation and Extension	IQAC, Mungsaji Maharaj Mahavidhyalaya, Darwha, dist. Yewatmal, INDIA, May 03, 2020	State
16.	Research Methodology	Workshop on Faculty Development (Webinar)	IQAC, Arts, Commerce and Science College, Chikhaldara, dist Amravati, INDIA, Apr	College

			22, 2020	
17.	Intellectual Property Rights (IPR)	National Science Day-2020	Shankarlal Khandelwal Arts, Science & Commerce College, Akola, INDIA, Feb 28, 2020	College
18.	Intellectual Property Rights (IPR)	One Day State Level Workshop on Intellectual Property Rights (IPR) and Career Advancement Scheme (CAS)	NKS Model College, Karanja (Gh.), Dist. Wardha, INDIA, Feb 26, 2020	State
19.	Concepts of Research & Types of Research	Research Methodology Workshop on BFSI Sector	Govt. Vidarbha Institute of Science & Humanities, Amravati, INDIA, Feb 25, 2020	National
20.	Components of Research Proposal	Research Methodology Workshop on BFSI Sector	Govt. Vidarbha Institute of Science & Humanities, Amravati, INDIA, Feb 25, 2020	National
21.	Photovoltaic Application Of Silicon Decorated Copper Sulfide Nanocomposites	International Conference on Advances in Physical, Chemical & Mathematical Sciences (ICAPCM-2020)	Dept of Physics, Chemistry, Mathematics, Statistics, Computer Science & LIT RTM Nagpur University, Nagpur, INDIA, Feb 13-16, 2020	International
22.	IPR and Patent Filing	One Day State Level Workshop on IPR and Patent Filing	IQAC, Indira Mahavidyalaya, Ralegaon, Dist. Yewatmal, INDIA, Jan29, 2020	State
23.	IPR	Refresher Course in Life Science	HRD Centre, Sant Gadge Baba Amravati University, Amravati, INDIA, Jan 07- 20, 2020.	National
24.	IPR and Incubation	One Day Seminar on Intellectual Property Rights	IQAC, JD Patil Sangludkar Mahavidyalaya, Daryapur Dist. Amravati, INDIA, Nov 22, 2019	University
25.	IPR and settlement of claims	One Day Workshop on Intellectual Property Rights and Patent Filing	Mungsaji Maharaj Mahavidhyalaya, Darwha, dist. Yewatmal, INDIA, Aug 5, 2019	University
26.	IPR and Patent Filing	One Day Awareness Workshop on Intellectual Property	DB Arts, Commerce & Science College, Bhokar, dist. Nanded, INDIA,	University

		Rights & Patents Filing	July 26, 2019	
27.	Intellectual Property Rights (IPR-2019)	One Day Workshop on Intellectual Property Rights	Shri R.R. Lahoti Science College , Morshi, dist Amravati, INDIA, Apr 23, 2019	University
28.	Patents: Product and Process	One Day Workshop on Intellectual Property Rights	Arts, Commerce and Science College, Chikhaldara, dist Amravati, INDIA, Mar 16, 2019	University
29.	Role of Copper Sulfide Incorporated Silicon Rich Nanocomposites in Solar Cell Application	National Conference on Recent Advances in Nanotechnology (NCRAN-2019)	Toshniwal Arts, commerce & Science College, Sengaon, Dist Hingoli, INDIA, Mar 5, 2019	National
30.	Chaired a session of Invited Talk	National Conference on Recent Advances in Nanotechnology (NCRAN-2019)	Toshniwal Arts, commerce & Science College, Sengaon, Dist Hingoli, INDIA. Mar 5, 2019	National
31.	Lecture on API	One Day Workshop on Intellectual Property Rights and Interactive session on new guidelines of API	Internal Quality Assurance Cell (IQAC), Butle College, Digras, Dist. Yewatmal, INDIA, Mar 02, 2019	University
32.	Lecture on IPR	One Day Workshop on Intellectual Property Rights and Interactive session on new guidelines of API	Internal Quality Assurance Cell (IQAC), Butle College, Digras, Dist. Yewatmal, INDIA, Mar 02, 2019	University
33.	Nanomaterials: Synthesis and Characterizations	Physics Society Programme	Shri Shivaji Science College, Akola, INDIA. Feb 09, 2019	College
34.	Chaired a session of Invited Talk - III	Third International Conference On Advances In Materials Science (ICAMS-2018)	Post Graduate Deptt of Physics, Raje Ramrao Mahavidyalaya, Jath, Sangli, INDIA, Dec 27-29, 2018	International
35.	Effect of Nanoparticles Concentration on Thermal Conductivity of Ceramic-Water Based Nanofluids	Third International Conference On Advances In Materials Science (ICAMS-2018)	Post Graduate Deptt of Physics, Raje Ramrao Mahavidyalaya, Jath, Sangli, INDIA, Dec 27-29, 2018	International
36.	Writing Research	Induction Programme	Govt. V.I.S.H., Amravati,	National

	Proposals		INDIA. Dec 13, 2018	
37.	Chaired a session of Invited Talk (II-B)	International Conference on Multifunctional Advanced Materials (ICMAT-2018)	Kamla Nehru Mahavidyalaya, Nagpur, INDIA. Oct 05-07, 2018	International
38.	Promotion under CAS of Faculties in Universities and Colleges and Teaching skill	National 43rd Orientation Programme	HRD Centre, Sant Gadge Baba Amravati University, Amravati, Sept 24- Oct 25, 2018.	National
39.	UGC Amendments in API-PBAS	Refresher Course in Environmental Studies (ID)	HRD Centre, Sant Gadge Baba Amravati University, Amravati, Aug 20- Sept 12, 2018.	National
40.	Graphene Nanosheets For Biological Applications	International Conference on Recent Trends in Science & Technology (ICRTST-2018)	SSSKR Innai Mahavidyalaya, Karanja (lad), Washim, INDIA, Mar 22-23, 2018	International
41.	Service Matter related to Teaching Faculties in Universities and Colleges	National 41 th Orientation Programme	HRD Centre, Sant Gadge Baba Amravati University, Amravati., Jan 22- Feb 19, 2018.	National
42.	TiO ₂ decorated Graphene Nanocomposite for Photovoltaic Application	National Conference on Recent Trends in Synthesis and Characterization of Futuristic Material in Sciences for the Development of Society (NCRTFMDS-2018)	Late. Bhaskarrao Shingne Arts, Prof. Narayanrao Gawande Science & Ashalata Gawande Commerce College, Sakharherda, Buldana, INDIA, Jan 13, 2018	National
43.	Nanoparticles for Artificial Photosynthesis	Physics Society Inauguration	Physics Society, Dept. of Physics, Vidhyabharati Science college, Amravati (M.S.) INDIA. Sept 26, 2017	University
44.	Nanomaterials Synthesis Methods	Refresher Course in Physics	HRD Centre, Sant Gadge Baba Amravati University, Amravati., Jul 10-29, 2017.	National
45.	Characterization methods of Nanomaterials	Refresher Course in Physics	HRD Centre, Sant Gadge Baba Amravati University, Amravati.,	National

			Jul 10-29, 2017.	
46.	Nanoparticles for sunscreen application in artificial photosynthesis	International Conference on Recent Trends in Science and Technology : Sustainable Development Through Scientific approach (ICRTS-2017)	SSES Amt's Science College, congress nagar, Nagpur, 12-14 Jul 2017.	International
47.	Chaired a session of Best paper Presentation	International Conference on Recent Trends in Science and Technology : Sustainable Development Through Scientific approach (ICRTS-2017)	SSES Amt's Science College, congress nagar, Nagpur, 12-14 Jul 2017.	International
48.	Research Methodology: How to write Research Paper	National Science day (NSD-2017)	Physics Society, Dept. of Physics, Govt.V.I.S.H. Amravati (M.S.) INDIA. Feb 28, 2017	University
49.	Academic performance indicator- Performance Based Appraisal System (PBAS)	National 36 th Orientation Programme	HRD Centre, Sant Gadge Baba Amravati University, Amravati.,Jul 01-Jul 28, 2016.	National
50.	Percentage capping in API- PBAS	National 36 th Orientation Programme	HRD Centre, Sant Gadge Baba Amravati University, Amravati.,Jul 01-Jul 28, 2016.	National
51.	Service matter: Promotions under CAS	National Refresher Course in Commerce	HRD Centre, Sant Gadge Baba Amravati University, Amravati.,Jul 01-Jul 21, 2016.	National
52.	Chaired a session III of paper Presentation	National Conference On Recent Advances In Mathematical Sciences(NCRAMS-2016)	Department of Mathematics, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA. Jun 17-18, 2016	National
53.	Chaired a session II of paper Readings	International Conference on General Relativity (ICGR-2015)	Department of Mathematics, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA. Nov 25-28, 2015	International
54.	Academic performance	National 34 th Orientation	HRD Centre, Sant Gadge Baba Amravati	National

	indicator- Performance Based Appraisal System (PBAS)	Programme	University, Amravati.,Nov 18-Dec 15, 2015.	
55.	Percentage capping in API- PBAS	National 34 th Orientation Programme	HRD Centre, Sant Gadge Baba Amravati University, Amravati.,Nov 18-Dec 15, 2015.	National
56.	Introduction to Nanoscience and nanotechnology	National 34 th Orientation Programme	HRD Centre, Sant Gadge Baba Amravati University, Amravati.,Nov 18-Dec 15, 2015.	National
57.	Application of NSNT for Society	National 34 th Orientation Programme	HRD Centre, Sant Gadge Baba Amravati University, Amravati.,Nov 18-Dec 15, 2015.	National
58.	Nanotechnology	Guest Lecture for UG Students	Dept. of Physics, G.S.Tompe Arts, Commerce & Science College, Chandur Bz, Dist Amravati, India, Sept 11, 2015.	College
59.	Nanoscience & Nanotechnology-I	National 26 th Orientation Programme	Academic Staff College, Sant Gadge Baba Amravati University, Amravati, Feb 10, 2014	National
60.	Nanoscience & Nanotechnology-II	National 26 th Orientation Programme	Academic Staff College, Sant Gadge Baba Amravati University, Amravati, Feb 10, 2014	National
61.	Synthesis of Nanoparticles And Preparation of Thin Films	Guest Lecture for UG Students	Dept of Physics, R.D.I.K. Science College, Badnera, Dist Amravati, India, Sept 28, 2013.	College
62.	Chaired a session of Invited talk	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	National

Conferences /Seminars /Workshops, etc. Organized /Leadership.

1. Coordinator, Refresher Course in Basic Science (Physics, Mathematics, Statistics, Computer Science, Electronics), Human Resource Development centre (National Resource Centre), Sant Gadge Baba Amravati University, Amravati during 21-12-2020 to 02-01-2021.
2. Convener, RGSTC's Scheme "Assistance for Science & Technology Application Through University System" Awareness Webinar, Dec 09, 2020.
3. Co-convener, Popular Science and Technology Exhibition, National Science Day – 2020, Feb 28-29, 2020.
4. Course Coordinator, Soft Skill Development Workshop, Student Development Department, Sant Gadge Baba Amravati University, Amravati, Jan 30-Feb 02, 2020.
5. Convener, Jury Panel for district level student's research convention "AVISHKAR-2019" Buldhana, Jan 10, 2020.
6. Convener, National Symposium on Innovative Materials and Devices (NSIMD-2019), Dept. Of Physics, Sant Gadge Baba Amravati University, Amravati, Jun 24-25, 2019.
7. Convener, Popular Science and Technology Exhibition, National Science Day – 2019, Feb 27-Mar 01, 2019.
8. Convener, Thematic Science and Technology Exhibition, National Science Day – 2018, Feb 27-28, 2018.
9. In-Charge, Silver Jubilee Alumni Celebrations-2017, Dept. Of Physics, Sant Gadge Baba Amravati University, Amravati, March 25, 2017.
10. Course Coordinator, 'Equipment Handling' under Academic Skill Development programme, Sant Gadge Baba Amravati University, Amravati during 01-02-2017 to 09-02-2017.
11. Conducted Demonstration with illustration of Research-Area in Physics, DST Inspire Internship camp, Sant Gadge Baba Amravati University, Amravati, Oct. 20, 2016.
12. Co-coordinator, State Level Workshop on National Education Policy: Governance Reforms in Higher Education, Sant Gadge Baba Amravati University, Amravati, Oct 2, 2016.
13. Mentor, Workshop on Research Methodology, Department of Home Science, Sant Gadge Baba Amravati University, Amravati during Mar 14-19, 2016.

14. Coordinator, 34th Orientation programme, Academic Staff College, Sant Gadge Baba Amravati University, Amravati during 18-11-2015 to 15-12-2015.
15. Coordinator, 26th Orientation programme, Academic Staff College, Sant Gadge Baba Amravati University, Amravati during 10-02-2014 to 08-03-2014.
16. 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.
17. Organizing Secretary, National Conference on Lasers and Advanced Materials (NCLAM-2012), Dept. Of Physics, Sant Gadge Baba Amravati University, Amravati, May 29-30, 2012.
18. 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, etc.
Attended:**

S. No.	Name	Place	Duration	Remark
1.	International Web Conference on Advanced Material Science & Nanotechnology (NANOMAT-2020)	Vinayak Vidnyan Mahavidyalaya, Nandgaon Khandeshwar, Dist. Amravati, INDIA.	Jun 20-21, 2020	As a resource person and Presented paper
2.	Fifth International Conference on Advances in Materials Science (Online) (ICAMS- 2020),	Post-Graduate Department of Physics and IQAC of Raje Ramrao Mahavidyalaya, Jath, Dist: Sangli, INDIA.	Jun 06-07, 2020	Presented research paper
3.	One day Workshop on Role of Board of Studies	Nanibai College of Education, Amravati (M.S.) INDIA.	Oct 06, 2019	Actively participated
4.	'Blood Donation Camp' on the occasion of Independence day-2019	Dept. of Zoology, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA.	Aug 14, 2019	Donated Blood
5.	One Day Workshop on Intellectual Property Rights and Patent Filing	Mungsaji Maharaj Mahavidhyalaya, Darwha, dist. Yewatmal, INDIA.	Aug 5, 2019	As a resource person
6.	One Day Awareness Workshop on Intellectual Property Rights & Patents	DB Arts, Commerce & Science College, Bhokar, dist. Nanded,	July 26, 2019	As a resource person

	Filing	INDIA.		
7.	ISRO RESPOND Programme – Interest Exploration Meeting	PGTD BioTech-UGC HRDC, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA.	July 13, 2019	Presented Project Work
8.	Training Program for IPR Cells in Universities of Maharashtra	Rajiv Gandhi Science and Technology Commission, Govt. of Maharashtra, Mumbai, INDIA.	Jun 11-12, 2019	Submitted Patent for Technology Transfer
9.	Training of Teachers (TOT) for Student Induction Programme (SIP)	UGC Western Regional Office, IISER, Pune, INDIA.	Jun 06-08, 2019	Actively participated
10.	One Day Workshop on Intellectual Property Rights	Shri R.R. Lahoti Science College , Morshi, dist Amravati, INDIA.	Apr 23, 2019	As a resource person
11.	One Day State Level Symposium on ‘Research Supervisor under New Guidelines:Duties and Role	PG Dept of Economics, Govt. Vidarbha Institute of Science & Humanities, Amravati, INDIA.	Apr 05, 2019	Actively participated
12.	One Day Workshop on Intellectual Property Rights	Arts, Commerce and Science College, Chikhaldara, dist. Amravati, INDIA.	Mar 16, 2019	As a resource person
13.	National Conference on Recent Advances in Nanotechnology (NCRAN-2019)	Toshniwal Arts, commerce & Science College, Sengaon, Dist Hingoli, INDIA.	Mar 5, 2019	Delivered Technical Talk
14.	One Day Workshop on Intellectual Property Rights and Interactive session on new guidelines of API	Internal Quality Assurance Cell (IQAC), Butle College, Digras, Dist. Yawatmal, INDIA.	Mar 02, 2019	As a resource person
15.	Third International Conference On Advances In Materials Science (ICAMS-2018)	Post Graduate Deptt of Physics, Raje Ramrao Mahavidyalaya, Jath, Sangli, INDIA.	Dec 27-29, 2018	Delivered Invited Talk and Chaired a session
16.	International Conference on Multifunctional Advanced Materials (ICMAT-2018)	Kamla Nehru Mahavidyalaya, Nagpur, INDIA.	Oct 05-07, 2018	Presented Research Papers and Chaired a session
17.	National Conference on Recent Trends in Synthesis and Characterization of Futuristic Material in Sciences for the Development of Society (NCRTFMDS-2018)	Late. Bhaskarrao Shingne Arts, Prof. Narayanrao Gawande Science & Ashalata Gawande Commerce College, Sakharherda, Buldana, INDIA.	Jan 13, 2018	Delivered Invited Talk and Presented Research Papers

18.	International Conference on Recent Trends in Science and Technology : Sustainable Development Through Scientific approach (ICRTS-2017)	SSES Amt's Science College, congress nagar, Nagpur, INDIA.	Jul 12-14, 2017	Presented Research Papers and Got Distinguish Researchers Award
19.	National Symposium on Education, Peace and Terror Free World	UGC: Human Resource Development Centre, Saurashtra University, Rajkot (Gujarat) INDIA.	Feb 13-14, 2017	Actively participated
20.	Training Programme on Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act, 2013	Maharashtra State Commission for Women and Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA.	Feb 9, 2017	Actively participated
21.	A Workshop for Orientation of Physics Teachers on Revision and Restructuring of UG Physics Syllabi	Vidya Bharati Mahavidyalaya, Amravati (M.S.) INDIA.	Jan 22, 2017	Actively participated
22.	International Conference on Recent Trends in Engineering Science and Technology	Suresh Deshmukh College of Engineering, Selukate, Wardha (M.S.) INDIA.	Jan 21-22, 2017	Presented Research Paper
23.	National Conference on Plant Diversity: Past and Present (Pdpp-2016)	Department of Botany, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA.	Dec 30-31, 2016	Presented Research Paper
24.	Workshop on Right to Information Act-2005	YASHADA and Department of Adult, Continuing Education & Extension Services, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA.	Dec 2, 2016	Actively participated
25.	National Seminar on Nanotechnology and Nanoengineering (NSNN-2016)	Department of Chemistry, Arts, Commerce and Science College, Kiran nagar, Amravati (M.S.) INDIA.	Sept 29, 2016	Presented Research Papers
26.	One Day Orientation Workshop on Intellectual Property Rights	Patent Cell, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA.	Aug 26, 2016	Actively participated
27.	National Conference On Recent Advances In Mathematical Sciences (NCRAMS-2016)	Department of Mathematics, Sant Gadge Baba Amravati University, Amravati	Jun 17-18, 2016	Presented Research Paper

		(M.S.) INDIA.		
28.	Three Days Training Programme on Intellectual Property Rights (IPR)	Innovation and Entrepreneurship Development Centre, Prof Ram Meghe College of Engineering & Management, Badnera, Amravati (M.S.) INDIA.	May 4-6, 2016	Actively participated
29.	National Conference On Chemical Sciences: Emerging Scenario & Challenges (NCCS-2016)	Department of Chemistry, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA.	Jan 29- 30, 2016.	Presented Research Papers
30.	International Conference on General Relativity (ICGR-2015)	Department of Mathematics, Sant Gadge Baba Amravati University, Amravati (M.S.) INDIA.	Nov 25-28, 2015	Presented Research Paper
31.	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
32.	International Conference on Functional Materials @ Nanoscale: Concerns and Challenges (ICFMNCC-2015)	Dept of Physics, Chemistry & Electronics, KBP Mahavidyala, Pandharpur, Dist.Solapur (M.S.) INDIA.	March 9-11, 2015	Presented Research Papers
33.	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
34.	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
35.	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, provided cooperation.

36.	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
37.	National Conference on Materials Science:Trends & Future (NCMS-2014)	Dept of Physics, Bharatiya Mahavidyalaya, Amravati, INDIA	Jan 10-11, 2014	Presented Research Paper
38.	Workshop on 'Patents and Intellectual Property Management'	Patent Cell, Sant Gadge Baba Amravati University, Amravati, INDIA.	Feb 7, 2013	Actively Participated
39.	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
40.	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
41.	One Day Workshop in 'Teaching Skills'	PG Dept of Education, Sant Gadge Baba Amravati University, Amravati, INDIA.	Oct 17, 2012	Actively Participated
42.	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
43.	National Conference on Synthesis and Characterization of Advanced Materials (NCSCAM-2011).	Janata Mahavidyalaya Chandrapur, INDIA.	Oct. 8, 2011	Presented two Research Papers
44.	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
45.	National Conference on advanced Technologies in material and their applications (NCATMSA-2011),	ACS College, Arvi, INDIA.	Mar 6,2011	Presented two Research Papers
46.	National Conference on Recent Trends in Embedded Technology and its applications (NCRTEA-	Kamala Nehru Mahavidhyalaya, Nagpur, INDIA.	Jan 22, 2011	Presented Research Paper

	2011)			
47.	National workshop on 'Preparation of Question Bank'	Sant Gadge Baba Amravati University, Amravati, INDIA.	Sep 30-Oct2, 2010	Submitted 300 questions.
48.	National workshop on 'Preparation of Question Bank'	Sant Gadge Baba Amravati University, Amravati, INDIA.	Aug 9-10, 2010	At & Mole and Nuclear Phy topic Questions
49.	National workshop on 'Preparation of Question Bank'	Sant Gadge Baba Amravati University, Amravati, INDIA.	July 2-4, 2010	Prepare the contents of syllabi
50.	Mission 10X Workshop	Sant Gadge Baba Amravati University, Amravati, INDIA.	May 3-7, 2010	Actively Participated
51.	A seminar on 'current challenges in Physics Education' and Annual convention of AUPTA	Shri Shivaji Science College, Amravati, INDIA.	April 25, 2010	Actively Participated
52.	International conf. On Science, Engineering & Spirituality	SES College of Engineering, Navalnagar, Dhule, INDIA.	April 1-2, 2010	Contributed a Paper
53.	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
54.	One Day Workshop on Impedance Analyzer	Sant Gadge Baba Amravati University, Amravati, INDIA.	Feb 9, 2010	Actively Participated
55.	National Conference on Materials Science: Trends & Future-2010	Deptt. of Physics, Vidya Bharati Mahavidyalaya, Camp, Amravati, INDIA.	Jan 6-7, 2010	Presented Research Paper
56.	Three Day Workshop on Recent Trends in Physics	Deptt. of Physics, SGBA University, Amravati, INDIA.	Dec 17-19, 2009	Actively Participated
57.	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
58.	One Day Training Program For Science and Engineering Teachers	Sant Gadge Baba Amravati University, Amravati, INDIA.	Aug 8, 2009	Actively Participated
59.	Workshop on Total Solar Eclipse-09	Deptt. of Mathematics, SGBA University, Amravati, INDIA.	June 13-14, 2009	Actively Participated
60.	A Workshop on Pure Physics Curricula in Contemporary	Vidya Bharati Mahavidyalaya, Camp,	April 26, 2009	Actively Participated

	Universities: Challenges and Innovation & Convention of Physics Teachers	Amravati, INDIA.		
61.	Awareness Workshop of UGC-DAE Consortium for Scientific Research.	Department of Physics, Solapur University, Solapur, INDIA.	Feb 28-Mar 01, 2008	Actively Participated
62.	Regional Level Workshop on Advances in Electronics (Special Emphasis on Microcontrollers)	Brijlal Biyani Science College, Amravati and Amravati University & College Electronics Teachers Association, Amravati, INDIA.	Jan 22, 2008	Actively Participated
63.	International Conference on Relativity (ICR-2005)	Dept. of Mathematics, Amravati University, Amravati, INDIA.	Jan 11-14, 2005	Actively Participated
64.	First Conference of Electronics Teachers and Workshop on Upgradation of Curriculum.	Brijlal Biyani Science College, Amravati.	Mar 20, 2005	Actively Participated
65.	Workshop on Scope & Limitations of B.Sc.III (Physics) Syllabus.	Dept. of Physics, Amravati University, Amravati, INDIA.	Jan 30, 2005	Actively Participated
66.	Workshop on Scope & Limitations of B.Sc.II (Physics) Syllabus.	Shri Shivaji Science College, Akot, INDIA.	Oct 3, 2004	Actively Participated
67.	46 th DAE Solid State Physics Symposia.	Jiwaji University, Gwalior, INDIA.	Dec 26-30, 2003	Presented Research Paper
68.	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); Journal of Non-Crystalline Solids;

Member of Professional Bodies:

1. Member, Green Army (Maharashtra Harit Sena) (AM/2017/Ind/346848) Maharashtra Forest Department, Govt. of Maharashtra, **Mumbai**.
2. Life member of Indian Vacuum Society (LM 849), BARC, **Mumbai**.
3. Member of specific scientific and technical committee & editorial review board (Natural and Applied Sciences), World Academy of Science, Engineering and Technology (WASET), **Malaysia**.
4. Member of International Frequency Sensor Association (IFSA), Affiliate No.: 20090130-001, **Brussels (Belgium)**.
5. Life member of Indian Science Congress Association (L14937), **Kolkata**.
6. Life member of Indian Physics Association (GEN/LM/ 12505), **Mumbai**.
7. Life member of Materials Research Society of India (LM B 1107), **Bangalore**.
8. Life member of Ramkrishna-Vivekanand Samitee, **Amravati**.
9. Life member of Ramkrishna-Vivekanand Vachanalaya, **Amravati**.
10. Life member of Amravati University Physics Teachers Association, **Amravati**.
11. Life member of Physical Society of India, **Amravati**.
12. Life member of Wildlife and Environment Conservation Society (L-171), **Amravati**.
13. Member, Amravati University Karmchari Patsanstha, **Amravati**.

Departmental and University Services:

1. Member, NAAC SSR Review and Uploading Committee, 2021.
2. Member, Development of system of benchmarking or parameters for various academic and administrative activities in the University and affiliated colleges, since 2020.
3. Coordinator, IPR cell, since 2019-2020.
4. Coordinator, RGSTC, Assistance for Science and Technology Application through University system, since 2019-2021.
5. Member, Board of Study (BOS) in Physics as University Teacher, since 2019.
6. Member, teacher selection committee since 2019.
7. Member, scrutiny committee for new college/section 2019.
8. Member, subject expert in local advisory committee since 2019.
9. Member Secretary, Research advisory committee since 2018.
10. Member, Tabulation Committee, Examination Section, since 2013.

11. Coordinator, FABLAB, since 2012-2016.
12. Member, Scientific and Technical Exhibition Committee, National Science Day 2013.
13. Co-opted member of Subject Exam committee (2010-12).
14. Member of Categorization committee, since 2011.
15. Member of AVISHKAR Committee since 2009.
16. Member of Task Force committee of department of Adult Continuing Education & Extension (Life long Learning) (2010-11).
17. Member of Seminar /slide show/Quiz committees in National Science Day (NSD)- since 2011
18. Member of Organizing committee of One Day Workshop on Personality Development-8-4-2011.
19. Teacher In-charge, University departmental Students Sports (Chess) Programmes (2009-11).
20. Member of Departmental Stock verification committee.
21. Incharge of AQAR committee of Department.
22. Member, Scientific and Technical Exhibition Committee, National Science Day held During February 25-28, 2009.

(Dr.S.A.Waghuley)