Information for preparing the Self Study Report For NAAC - 3rd Cycle CRITERION III: RESEARCH, CONSULTANCY AND EXTENSION

Dr. Sunil Rameshgir Gosavi

Material Research Laboratory, Department of Physics, A.S. Mandal's, Arts and Commerce College Trusts, C.H.C. Arts, S.G.P. Commerce and

B.B.J.P. Science College, Taloda, Dist. Nandurbar, (M.S.) India ***** Educational Qualifications: S.S.C. (S.S.C. Board Pune), 1985 First Class Janata Vidyalaya, Wadali Bhoi, Tal. Chandwad, Dist. Nashik. II Grade 1987 H.S.C. (H.S.C. Board Pune), K. K. W. Arts, Commerce and Science Jr. College, Pimpalgaon (B.) Dist. Nashik. B.Sc. (University of Poona, Pune), K. K. W. Arts, Commerce 1990 First Class and Science College, Pimpalgaon (B.) Dist. Nashik. 1992 M.Sc. (University of Poona, Pune), S.S.V.P.S. Dr. P. R. First Class with Ghogrey Science College, Dhule. (First Rank in the Distinction **University**) Ph.D. (Physics) Dr. Babasaheb Ambedkar Marathwada 2010 University, Aurangabad. ✤ Ph.D. Thesis Title: Completed Ph. D. in August 2010 under the guidance of Dr. Ramphal Sharma, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad on the topic entitled "Growth, structural, optical and electrical properties of Cu_{2-x}Se semiconductor thin films for photovoltaic applications."

| Contact Information: Office: | Corresponding Address: |
|---|--|
| Department of Physics, | "Chandraratna", Plot No. 31, |
| A.S. Mandal's, Arts and Commerce College | Haraklalnagar, Taloda, Dist. Nandurbar |
| Trusts, C.H.C. Arts, S.G.P. Commerce and | (M.S.) India |
| B.B.J.P. Science College, Taloda, | Pin. 425413. |
| Dist. Nandurbar, (M.S.) India, Pin. 425413. | |

| * | ✤ Appointment Details: | | |
|---|------------------------|--|--|
| | 1. | Name of the Employee: Dr. Sunil Rameshgir Gosavi | |
| | 2. | Department: Department of Physics | |

| 3. | Date of Birth: 06/10/1969 |
|--------|---|
| 4. | Religion and Caste: Hindu Bawa (N.T. B) |
| 5. | Date of Appointment: 24/08/1993 |
| 6. | Date of Confirmation: 24/08/1995 |
| 7. | University Approval No.: NMU/93/5/97/10456 Dated 05/10/1993. |
| 8. | University Approval No.: NMU/18/No.14/1182/2011 Dated 25/07/2011. |
| 9. | PG recognition letter (By Paper): NMU/11/PGR/Physics/284/2009 Dated 19/11/2009. |
| 10. | PG recognition letter (By Research): NMU/11/PGR/Phy/2425/2012 Dated |
| | 21/09/2012. |

| * | Awards and Achievements: | | | |
|---|--|---|--|--|
| | 1992 For securing highest number of marks at the M.Sc. Physics examination | | | |
| | Poona University, Pune held in May-1992. | | | |
| | 1. | The late Shri. Madhav Laxman Nandgaonkar prize. | | |
| | 2. | Late Shri. D.R. Pradhan (I.C.S.) prize. | | |
| | 3. | Late Dr. Moreshwar Vasudeo Chiplunkar Memorial prize. | | |
| | 4. | The late Dr. Vishwanath Krishnaji Garde prize. | | |

| * | Total students registered for their Doctoral Research (Ph.D.) | | | | |
|---|---|-------------------------------|---|--|--|
| | Sr. | Name of the students | Title | | |
| | No. | | | | |
| | 1. | Mr. Kailas Bansilal Chaudhari | Studies on synthesis, structural, optical and | | |
| | | Regn. No./Ref: | electrical properties of chemically deposited CdX | | |
| | | NMU/11/Ph.D./Phy./25/2013 | (X = S, Se), thin films, TiO ₂ /CdS & TiO ₂ /CdSe | | |
| | | | bilayer thin films. | | |
| | 2. | Mr. Chandrashekhar Panditrao | Cadmium Chalcogenides and its alloy thin films: | | |
| | | Nikam | Chemical Synthesis, Characterization and its | | |
| | | NMU/11/Ph.D./Phy./34/2014 | Application in Optoelectronics. | | |
| | 3. | Mr. Bhausaheb Narayan | Synthesis of In ₂ S ₃ -Ag ₂ S layers and AgInS ₂ thin | | |
| | | Kakade | films by SILAR technique: Study of structural, | | |
| | | NMU/11/Ph.D./Phy./29/2014 | optical and electrical properties for its | | |
| | | | optoelectronic applications | | |
| | 4. | Mr. Yogesh Narayan Rane | Synthesis, characterization and study of | | |
| | | NMU/11/Ph.D./Che./1/2013 | photocatalytic properties of semiconductor metal | | |
| | | (Co-guide) | oxides thin films towards degradation of dyes | | |
| | | | | | |

| 5. | Mr. Dipak Ambalal Shende | Chemical deposition of zinc cadmium sulphide | | |
|----|--------------------------|--|--|--|
| | NMU/11/Ph.D./Che./2/2013 | (ZnxCd1-xS) thin films and study on their | | |
| | (Co-guide) | photocatalytic activity. | | |

| * | * Area of Research: | | |
|---|---------------------|---|--|
| | 1. | Metal Chalcogenide semiconductors, | |
| | 2. | Chemical bath deposition, SILAR, Electrodeposition and spray pyrolysis technique, | |
| | 3. | Solar cells, | |
| | 4. | Photo sensors and | |
| | 5. | Photo catalysts. | |

| * Pr | Project Completed (MRP completed): | | |
|------|------------------------------------|---|--|
| | 1. | Principal investigator of a U.G.C. funded Minor Research Project entitled "Growth, | |
| | | structural, optical and electrical properties of CuSe semiconductor thin films for photovoltaic application". Amount sanctioned: Rs. 70000.00 (2008-2010) | |

| * Acade | Academic Training Programmes attended: | | | | |
|---------|---|------------------------------------|--|--|--|
| 1. | Online Course of Learning Physics through Simple | 20 th September 2016 to | | | |
| | Experiments organized by Centre for Development of | 20th November 2016 | | | |
| | Technical Education, Indian Institute of Technology | | | | |
| | (IIT) Kanpur. | | | | |
| 2. | First refresher course in Physical Sciences | 31 st January 2012 to | | | |
| | (Interdisciplinary) refresher program conducted by | 20 th February 2012 | | | |
| | Banaras Hindu University, Varanasi, organized by | | | | |
| | Department of Physics, Banaras Hindu University, | | | | |
| | Varanasi. | | | | |
| 3. | Orientation program conducted by University of | 28 th November to | | | |
| | Poona, Pune related to the Value Education. | 25 th December 2003 | | | |
| 4. | Refresher program conducted by University of Poona, | 25 th November to | | | |
| | Pune related to the Environmental Science organized by | 15 th December 2002 | | | |
| | Department of Environmental Science, Shivaji | | | | |
| | University Kolhapur. | | | | |
| 5. | Refresher program conducted by North Maharashtra | 18 th December 1995 to | | | |
| | University, Jalgaon, related to the Physics organized by | 14 th January 1996 | | | |
| | Department of Physics, Pratap College Amalner. | | | | |

| Sr. No. | Title and Authors | IF/ISSN No. |
|------------|---|---|
| 1 | 2013-14 | |
| 1. | Nanocrystalline CoS Thin Films Prepared by Modified Chemical Bath Deposition Method, M. S. Sonawane, S. R. Gosavi and R. S. Patil, Journal of Chemical, Biological and Physical Sciences (An International Peer Review E-3 Journal of Sciences), MAY 2014 – JULY, 2014, Vol. 4, No. | E- ISSN: 2249 1929. |
| | 3; 2416-2423, | |
| | 2014-15 | |
| 2. | Characterization of nanocrystalline CdS thin films deposited on FTO by CBD for photosensor applications, C.P.Nikam, S. R. Gosavi, Advances in Applied Science Research, 2014, 5(5):267-272 (Corresponding Author) | ISSN: 0976-8610 |
| 3. | Chemical synthesis of porous web-structured CdS thin films for photosensor applications, S.R. Gosavi , C.P. Nikam , | Impact Factor: 2.101 (Elsevier) |
| | A.R. Shelke, A.M. Patil, SW. Ryu, J.S. Bhat, N.G. Deshpande, Materials Chemistry and Physics, 160 (2015) 244-250. (<i>Corresponding Author</i>) | (Elsevier) |
| 4. | Effect of immersion cycles on structural, morphology and optoelectronic properties of nanocrystalline Ag2S thin films deposited by SILAR technique, B. N. Kakade, C. P. Nikam, S. R. Gosavi, IOSR Journal of Applied Physics (IOSR-JAP), 6(6), (2014)6-12. (<i>Corresponding Author</i>) | E-ISSN: 2278-4861 |
| 5. | Influence of Cr Doping On Structural, Morphological and Optical Properties of SnO2 Thin Film Prepared By Spray Pyrolysis Technique, R. R. Kasar, S. R. Gosavi, A.Ghosh, N.G. Deshpande, R.P.Sharma, IOSR Journal of Applied Physics (IOSR-JAP), Volume 7, Issue 1 Ver. I (JanFeb. 2015), PP 21-26. | e-ISSN: 2278-486 |
| 6. | Influence of Thickness on the Photosensing Properties of Chemically Synthesized Copper Sulfide Thin Films, Abhiman Dattatray Dhondge, Sunil Rameshgir Gosavi , Narayani Madhukar Gosavi, Chatur Pundlik Sawant, Amar Maruti Patil, Abhijeet Ravsaheb Shelke, Nishad Gopal Deshpande, World Journal of Condensed Matter Physics, 5 (2015)1-9. (<i>Corresponding Author</i>) | Impact Factor: 0. ISSN Online: 216 6927 |

| 7. | Synthesis, Structural and Optoelectronic Properties of | e-ISSN: 0975-0754 |
|-----|---|-------------------------------|
| | Nanocrystalline CdSe Thin Films Prepared By Chemical | |
| | Bath Deposition Route, C. P. Nikam, Narayani Gosavi, R. | |
| | R. Ahire and S. R. Gosavi, Journal of Scientific Review, | |
| | Volume 5, Issue 1, Pages 238-244, 2015. (Corresponding | |
| | Author) | |
| 8. | Fabrication and Characterization of SnS Thin Films | ISSN 2319-7633 |
| | Prepared by SILAR Method, J. S.Suryawanshi, S. R. | (Online) |
| | Gosavi and R. S. Patil, Nano Vision, Vol. 5(3), 31-38, | |
| | March 2015 (Corresponding Author) | |
| | 2015-16 | |
| 9. | Chemical synthesis and study of structural and | IF: 1.534 |
| | optoelectronic properties of CdS thin films: Effect of | ISSN: 2347-3487 |
| | SILAR growth cycles, K. B. Chaudhari, S.R.Gosavi, | (Council for |
| | JOURNAL OF ADVANCES IN PHYSICS, Vol. 9, No. 3 | Innovative |
| | (2015)2461-2469. (Corresponding Author) | Research) |
| 10. | Effect of Light Illumination on Electrical Properties of | ISSN 2319-8133 |
| | Nanocrystalline Cadmium Sulphide Thin Film Prepared on | (Online) |
| | ITO by Chemical Route, S. R. Gosavi, Journal of Pure | |
| | Applied and Industrial Physics, Vol.5(11), 316-323, | |
| | November 2015 | |
| 11. | Effect of Deposition Temperature on Growth and Properties | ISSN 2319-7625 |
| | of Nanostructure Cadmium Sulphide Thin Films by | (Online) |
| | Chemical Bath Deposition Technique, D. A. Shende, Y. N. | |
| | Rane, M. G. Raghuwanshi, Narayani M. Gosavi, and | |
| | S. R. Gosavi , Journal of Chemistry and Chemical Sciences, | |
| | Vol.5(12), 727-736, December 2015 | |
| | 2016-17 | |
| 12. | Synthesis of flower shaped ZnO thin films for resistive | Impact Factor: |
| 12. | sensing of NO ₂ gas, Y. N. Rane, D. A. Shende, M. G. | 4.831 |
| | Raghuwanshi, A. V. Ghule, V. L. Patil, P. S. Patil, | (Springer) |
| | S. R. Gosavi, N. G. Deshpande, Microchimica Acta, | |
| | · · · | |
| | Microchim Acta (2017) 184:2455–2463 (Corresponding | |
| 12 | Author) | ICON. 440 4170 |
| 13. | Chemical synthesis and characterization of CdSe thin films | ISSN: 2468-2179 (Elsovier) |
| | deposited by SILAR technique for optoelectronic | (Elsevier) |
| | applications K.B. Chaudhari, N.M. Gosavi, N.G. Deshpande | |
| | , S.R. Gosavi, Journal of Science: Advanced Materials and | |
| | Devices, 1 (2016) 476-481. (Corresponding Author) | |
| | | |

| 14. | Effect of Uniform Decoration of Ag ₂ S Nanoparticles on Physical Properties of Granular TiO ₂ Thin Films Synthesized by Using Spin Coating Technique, R.A. Wagh, D.B. Salunke, S.R. Gosavi, R.S. Patil, JOURNAL OF NANO - AND ELECTRONIC PHYSICS, Vol. 8 No 4(2), 04080(5pp) (2016) (<i>Corresponding Author</i>) | Impact Factor: 0.612 (Sumy State University, Sumy, Ukraine) |
|-----|---|---|
| 15. | MORPHOLOGICAL EVOLUTION OF NANOCRYSTALLINE CdS THIN FILMS SYNTHESIZED BY TWO DIFFERENT CHEMICAL DEPOSITION TECHNIQUES, Narayani M. Gosavi, Shende, D. A., Rane, Y. N., Chaudhari, K. B., Kanke, V. M. and Gosavi, S. R., Asian Journal of Science and Technology, Vol. 07, Issue, 11, pp.3820-3823, November, 2016. (<i>Corresponding Author</i>) | IF: 0.778 ISSN: 0976-3376 |

| Full | Full length papers published in National / International conferences/seminars: | | | |
|------|---|--|--|--|
| | 2012-13 | | | |
| 1. | Effect of annealing on the optoelectronic properties of CuSe thin film for solar cell | | | |
| | applications, Sunil R. Gosavi, H.K. Sadekar, Ramphal Sharma, Presented at | | | |
| | NCANAP 2013 organised by Arts, Commerce and Science College Sonai. | | | |
| 2. | Nanostructured ZnSe thin films prepared by Chemical Bath Deposition for Solar cell | | | |
| | applications, H.K. Sadekar, Sunil R. Gosavi, Ramphal Sharma, Presented at | | | |
| | NCANAP 2013 organised by Arts, Commerce and Science College Sonai. | | | |
| | 2015-16 | | | |
| 3. | Simple chemical route to deposit nanocrystalline cadmium sulphide thin film on | | | |
| | conducting substrate and its characterization for the degradation of Methylene Blue, | | | |
| | C. P. Nikam, B. N. Kakade, Narayani M. Gosavi, S. R. Gosavi, Presented at | | | |
| | National Seminar on Recent Trends in Environmental Protection: Concern and | | | |
| | Challenges [RTEPC] on 5th October 2015 organized by Arts, Commerce and | | | |
| | Science College, Songir Dist. Dhule. | | | |

| Research Monographs, Reference Books Published by International Publisher: 2015-16 | | | | |
|---|------------------------|----------------------------|--|--|
| Title of the Book | Year of Publication | Type of Book | Publisher & ISBN No. | |
| Metal Chalcogenides Thin Films-Fundamentals and its Sensor Applications | 2015 | Research Reference Book | LAP LAMBERT Academic Publishing ISBN No 978-3-659-79632-6 | |

| Editing of the proceedings of | Editing of the proceedings of the Seminar / Symposium / Conference /Workshops: | | | | | |
|---|--|----------------------------|---|--|--|--|
| | 201 | 12-13 | | | | |
| Title of the proceedings | Seminar / Symposium / Conference /Workshops | | Publisher & ISBN No. | | | |
| Souvenir- Advances in Nano Structured Materials and Their Applications (Editor) | National level seminar on, | | 4 | | | |
| Subject Books Published by | National level | / State level / Cen | tral Govt. publication: | | | |
| Title of the Book | Year of Publication | Level at which recommended | Publisher & ISBN No. | | | |
| 1. PHYSICS: PHY-241: Modern Physics | December 2016 | S. Y. B.Sc. | Vrinda Publication Jalgaon ISBN: 978-93-85028-92-2 | | | |
| 2. PRACTICAL PHYSICS Modern Physics, Optics and Laser | December 2016 | S. Y. B.Sc. | Prashant Publication Jalgaon ISBN 978-93-82528-13-5 | | | |
| 3. PHYSISCS: PHY-241: Modern Physics | December 2016 | S. Y. B.Sc. | Prashant Publication Jalgaon ISBN 978-93-82414-75-9 | | | |
| 4. PHY: 242-OPTICS | December 2016 | S. Y. B.Sc. | Prashant Publication Jalgaon ISBN 978-93-82414-78-0 | | | |
| 5. PRACTICAL PHYSICS General, Waves and Oscillations, Electronics-I OR Instrumentation-I | July 2016 | S. Y. B.Sc. | Prashant Publication Jalgaon ISBN 978-93-81546-80-2 | | | |
| 6. PHY-231: Waves and Oscillations | July 2016 | S. Y. B.Sc. | Prashant Publication Jalgaon | | | |

| | | | ISBN 978-93-81546-26-0 | |
|------------------------------|----------|-------------|----------------------------|--|
| 7. PHY-232(A)-Electronics-I | July | S. Y. B.Sc. | Prashant Publication | |
| | 2016 | | Jalgaon | |
| | | | ISBN 978-93-81546-32-1 | |
| 8. PHY-121: Heat and | January | F.Y.B.Sc. | Prashant Publication | |
| Thermodynamics | 2016 | | Jalgaon | |
| | | | ISBN 978-93-85019-83-8 | |
| 9. PHY 112 Electricity and | July | F.Y.B.Sc. | Prashant Publication | |
| Magnetism | 2015 | | Jalgaon | |
| | | | ISBN 978-93-85021-69-5 | |
| 10. PHY121 : Heat and | November | F.Y.B.Sc. | Vrinda Publication Jalgaon | |
| Thermodynamics | 2013 | | ISBN 978-81-926449-1-2 | |
| 11. PHYSISCS: | November | S.Y.B.Sc. | Vrinda Publication Jalgaon | |
| PHY-241: Modern Physics | 2013 | | ISBN 978-81-926449-5-0 | |
| 12. PHY 112: Electricity and | July | F.Y.B.Sc. | Vrinda Publication Jalgaon | |
| Magnetism (Second Edition) | 2012 | | ISBN 81-7815-013-1 | |
| 13. PHY 111: Mechanics and | July | F.Y.B.Sc. | Vrinda Publication Jalgaon | |
| Properties of Matter (Second | 2013 | | ISBN 81-7815-012-3 | |
| Edition) | | | | |
| | | | | |
| 14. PHY 231: Waves and | July | S.Y.B.Sc. | Vrinda Publication Jalgaon | |
| Oscillations | 2013 | | ISBN 81-7815-064-6 | |
| 15. PHYSICS for S.Y.B.Sc. | 2012 | S.Y.B.Sc. | Vrinda Publication Jalgaon | |
| PHY 222: Applied Physics-I | | | ISBN 81-7815-001-8 | |
| 16. PHYSICS PRACTICAL | 2012 | F.Y.B.Sc. | Vrinda Publication Jalgaon | |
| PHY-103: Practical Course | | | ISBN 81-7815-016-6 | |

| Na | tional/International Conferences attended: | | |
|---------|---|--|--|
| 2016-17 | 1. State level conference on Advanced Materials and Innovative Processing Ideas (AMIPI-2017) organized by M.J.M. A.S.C. College Karanjali Dist. Nashik during 27 th -28 th January 2017. | | |
| | National Conference on Electronic Materials, Thin Films and Its Applications (NCEMTFA-2016) organized by Department of Electronics & Physics, J.D.M.V.P. CoOp. Samaj's ASC College, Jalgaon (M.S.) India, during 9th- 10th December 2016. | | |
| 2015-16 | National Conference on Chemical Synthesis of Nanomaterials and their Applications in Environment, organized by Dept. of Chemistry, G. T. Patil College, Nandurbar (M.S.) during 8th - 9th February, 2016. National Conference on Recent Developments in NANOMATERIALS & Their Applications (NC-RDNMA-2016) organized by Department of Electronics, G.T.P. College Nandurbar during 5th - 6th February, 2016. | | |

| | 5. International Conference on Materials Science and Ionizing Radiation Safety & | |
|---------|---|--|
| | Awareness (ICMSIRSA-2016) organized by Department of Physics, Shivaji | |
| | University, Kolhapur during 28 th -30 th January 2016. | |
| 2013-14 | 6. International Conference on Global Opportunities for Latest Developments in | |
| | Chemistry and Technology-2014 (GOLD-CT-2014), organized by School of | |
| | Chemical Sciences, North Maharashtra University, Jalgaon during 6-8 th | |
| | February 2014. | |
| | 7. 2 nd International Conference on Physics of Materials and Materials Based | |
| | Device Fabrication, (ICPM-MDF-2014) organized by Department of Physics, | |
| | Shivaji University, Kolhapur during 13-15 th January 2014. | |
| 2012-13 | National Conference on NANOMATERIALS: Applications and Properties | |
| | (NCANAP 2013) organized by Arts, Commerce and Science College, Sonai | |
| | during 22-23rd February 2013. | |
| | 9. National Conference on Indian Development in Recent and Ideal | |
| | Semiconductors for Novel Applications (NC-IDRIS-2012) organized by Arts, | |
| | Commerce and Science College, Navapur during 6-7th October 2012. | |

| Na | National and International Seminars attended: | | |
|---------|--|--|--|
| 2015-16 | 1. National Seminar on Recent Trends in Environmental Protection: Concern and | | |
| | Challenges [RTEPC] on 5 th October 2015 organized by Arts, Commerce and | | |
| | Science College, Songir Dist. Dhule | | |
| 2014-15 | 2. 3 rd National Seminar on Physics of Materials and Materials Based Device | | |
| | Fabrication, (3rd NSPM-MDF-2014) organized by Department of Physics | | |
| | Shivaji University, Kolhapur during 19 th and 20 th December 2014. | | |
| 2012-13 | 3. National Seminar on Advanced Materials and its Applications, organized by | | |
| | S.V.S. Arts and Science College Dondaicha during 1-2 nd February 2013. | | |

| * Or | Organization of national or international conference/ seminar/ symposia/ workshop: | | | | |
|---------|--|--------------|---|--|--|
| | Title of conference/ seminar/ | Sponsored by | Date | | |
| | symposia/ workshop | | | | |
| 2012-13 | 1. National level seminar on, | UGC (WRO) | 22 nd - 23 rd January | | |
| | "Advances in Nanostructured | | 2013 | | |
| | Materials and their Applications" | | | | |

| Invited talk delivered in state/national/international conference/ seminar/ symposia/ workshop: | | | |
|--|--|--|--|
| | Title of conference/ seminar/ symposia/ workshop | Sponsored by | Date |
| 2016-17 | State level conference on Advanced Materials and Innovative Processing Ideas (AMIPI-2017) organized by | M.J.M. A.S.C. College Karanjali Dist. Nashik | 27 th -28 th January 2017 |

| | Session Chairman in state/national/international conference/ seminar/ symposia/ | | | | |
|---------|---|--------------------|---|--|--|
| WO | workshop: | | | | |
| | Title of conference/ seminar/ | Sponsored by | Date | | |
| | symposia/ workshop | | | | |
| 2012-13 | National Seminar on Advanced | S.V.S. Arts and | 1 st -2 nd February | | |
| | Materials and its Applications | Science College | 2013 | | |
| | | Dondaicha | | | |
| 2015-16 | National Seminar on Recent Trends in | Arts, Commerce and | 5 th October 2015 | | |
| | Environmental Protection: Concern and | Science College, | | | |
| | Challenges [RTEPC] | Songir Dist. Dhule | | | |
| | National Conference on Recent | G.T.P. College | $5^{\text{th}} - 6^{\text{th}}$ February, | | |
| | Developments in NANOMATERIALS | Nandurbar | 2016. | | |
| | & Their Applications (NC-RDNMA- | | | | |
| | 2016) | | | | |
| 2016-17 | State level conference on Advanced | M.J.M. A.S.C. | 27 th - 28 th January | | |
| | Materials and Innovative Processing | College Karanjali | 2017 | | |
| | Ideas (AMIPI-2017) organized by | Dist. Nashik | | | |

| * Sta | State/national/international symposia/workshop attended: | | | | |
|---------|---|---|--|--|--|
| | Title of symposia/ workshop | Sponsored by | Date | | |
| 2012-13 | 1. One day Workshop on Syllabus Framing of S.Y.B.Sc. Physics | Arts, Commerce and Science College Jamner. | 10 th February 2013 | | |
| 2013-14 | 2. Workshop on restructuring the syllabus of T.Y.B.Sc. (Physics) | R. C. Patel Arts, Commerce and Science College Shirpur | 23 rd and 24 th February 2014 | | |
| 2014-15 | One day workshop on F.Y.B.Sc. Physics syllabus revision | Dr. P. R. Ghogare Science college Dhule | 17 th January 2015 | | |
| 2015-16 | 4. Workshop on S.Y.B.Sc. PHYSICS syllabi Revision | Uttamrao Patil Arts and Science, Dahiwel Dist. Dhule | 14 th January 2016 | | |
| 2016-17 | 5. Workshop on Syllabus Framing of Physics at T.Y.B.Sc. | | 25 th February 2017 | | |

| 🔅 Or | Organization of national or international symposia/Avishkar: | | | | |
|---------|--|------------------|----------------------------|--|--|
| | Title of conference/ seminar/ | Sponsored by | Date | | |
| | symposia/ workshop | | | | |
| 2015-16 | Worked as a team Manager in the | NMU, Jalgoan and | 22 nd November, | | |
| | District level Research | P.S.G.V.P.M.'S | 2015 | | |
| | Convention, "Avishkar 2015" | ASC College | | | |
| | | Shahada | | | |

| 2016-17 | Worked as a team Manager in the | NMU, Jalgaon and | |
|---------|---------------------------------|------------------|--|
| | District level Research | G.T.P. College | |
| | Convention, "Avishkar 2015" | Nandurbar | |

| Participation in Avishkar: | | | | | |
|----------------------------|---|---|------------------------------------|--|--|
| | Title | Sponsored by | Date | | |
| 2016-17 | Study of electrical properties of Ag/CdSe Schottky diode prepared by low cost chemical synthesis technique (C. P. Nikam and S. R. Gosavi) Selected for University level presentation | NMU, Jalgaon and G.T.P. College Nandurbar | 22 nd November, 2015 | | |
| | Successive ionic layer adsorption and reaction (SILAR) trend for nanocrystalline cadmium selenide thin films growth (K. B. Chaudhari and S. R. Gosavi) Selected for University level presentation 3. | | | | |