

Academic Achievements

Prof. Dr. Sunil Rameshgir Gosavi

Professor,

Department of Physics,

A.S. Mandal's, Arts & Commerce College Trusts,

C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College,

Taloda-425413, Maharashtra, India.



General Information and Academic Background

Contact

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Academic Details

1985	S.S.C. (S.S.C. Board Pune), Janata Vidyalaya, Wadali Bhoi, Tal. Chandwad, Dist. Nashik.	First Class
1987	H.S.C. (H.S.C. Board Pune), K. K. W. Arts, Commerce and Science Jr. College, Pimpalgaon (B.) Dist. Nashik.	II Grade
1990	B.Sc. (University of Poona, Pune), K. K. W. Arts, Commerce and Science College, Pimpalgaon (B.) Dist. Nashik.	First Class
1992	M.Sc. (University of Poona, Pune), S.S.V.P.S. Dr. P. R. Ghogrey Science College, Dhule. (First Rank in the University)	First Class with Distinction
2010	Ph.D. (Physics) Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.	

Awards and Achievements

- 2023** Honoured by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon as “Best Teacher Award”- (2021-22)
- 2023** Honoured by the Kavayitri Bahinabai Chaudhari North Maharashtra University, Jalgaon by giving “Research Award-Patent”- (2021-22)
- 1995** For securing highest number of marks at the M.Sc. Physics examination, in 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.

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
5. Date of Appointment: ACC/344 Dated 24/08/1993
6. Date of Confirmation: TRUST/CONF. ORD./1995-96/33 Dated 30/12/1995
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.
- 10 Associate Professor:
· University Approval No.: KBCNMU/18/867/2022 Dated 21/09/2022.
- 11 Professor:
· University Approval No.: NMU/18/1354/2025 Dated 10/10/2025.

- 12 PG recognition letter (By Research-Physics):
NMU/11/PGR/Phy/2425/2012 Dated 21/09/2012.
- 13 PG recognition letter (By Research-Chemistry):
NMU/11/Ph.D./ /2018 Dated 26/02/2018.

Professional Contributions and Recognition

1. Member of Senate, Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon from 19th September 2017 to August 2022.
2. Member of Board of Research (Nominated by VC), K. B. C. N. M. U. Jalgaon from 12th October 2018 to August 2022.
3. Member of Board of Studies (Nominated by VC), Kavayitri Bahinabai Chaudhari North Maharashtra University Jalgaon from 5th April 2018 to August 2022.
4. Member, College Development Committee (As per the University act 2016) (since academic year 2017-18 to next five years)
5. Member, IQAC (2010-2021)

Research experience/Research Project: 18 Years/01

Worked as a Principal Investigator of UGC Minor Research Project (2008-2010): 0.7 Lakh

Title of the Project: "Growth, structural, optical and electrical properties of CuSe semiconductor thin films for photovoltaic application"

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."

Research Guidance (Ph.D.)

Sr. No.	Name of the students	Title	Status & Date of Notification
Subject: Physics			
1.	Dr. C. P. Nikam	<u>Cadmium Chalcogenides and its alloy thin films: Chemical Synthesis, Characterization and its Application in Optoelectronics.</u>	Ph.D. Awarded 28.04.2021
2.	Dr. K. B. Chaudhari	<u>Studies on synthesis, structural, optical and electrical properties of chemically deposited CdX (X = S, Se), thin films, TiO₂/CdS & TiO₂/CdSe bilayer thin films.</u>	Ph.D. Awarded 03.07.2021
3.	Mr. B.N. Kakade	<u>Synthesis of In₂S₃-Ag₂S layers and AgInS₂ thin films by SILAR technique: Study of structural, optical and electrical properties for its optoelectronic applications</u>	Ph.D. Awarded 13.10.2023
4.	Mr. T.R. Wagh	Comparative study of ZnO thin films fabricated by different synthesis route on transparent substrates for solar energy harvesting	Ongoing
5.	Miss. Vaibhavi A. Shimpi	Study and Characterization of Ni and Co doped Zinc Oxide thin films for Photoelectrochemical Solar cell applications	Ongoing
Subject: Chemistry			
6.	Dr. D. A. Shende	<u>Chemical deposition of zinc cadmium sulphide (Zn_xCd_{1-x}S) thin films and study on their photocatalytic activity.</u>	Ph.D. Awarded 16.07.2021
7.	Dr. Y. N. Rane	<u>Synthesis, characterization and study of photocatalytic properties of semiconductor metal oxides thin films towards degradation of dyes</u>	Ph.D. Awarded 20.08.2021
8.	Miss. Narayani M. Gosavi	Chemical synthesis and characterization of metal chalcogenide nanoparticles decorated ZnO thin films for potential application in photoelectrochemical cell.	Ongoing
9.	Mr. K.R. Sali	Investigating the effect of doping on the physical properties of chemically synthesized nickel oxide (NiO) thin films to harvest solar energy	Ongoing

Patent Details

Title: AN INFLUENCE OF Fe DOPING ON PROPERTIES OF CHEMICALLY GROWN CdS THIN FILMS

Contributors

1. Rajesh Arun Joshi, Department of Physics, Toshniwal Arts, Commerce and Science College, Sengaon Dist. Hingoli-431542 M.S. India
2. Munjaji Eknath Dudhamal Department of Physics, Toshniwal Arts, Commerce and Science College, Sengaon Dist. Hingoli-431542 M.S. India
3. Jayesh Rajendra Pawar Department of Physics, Toshniwal Arts, Commerce and Science College, Sengaon Dist. Hingoli-431542 M.S. India
4. Nikhilesh Subhashchandra Bajaj Department of Physics, Toshniwal Arts, Commerce and Science College, Sengaon Dist. Hingoli-431542 M.S. India
5. Atul Bapurao Gawande, Department of Physics and Electronics, MVPS K. S. K. W. Arts, Science and Commerce College, CIDCO, Nashik
6. Arindam Abhiram Ghosh, Department of Physics, Ramchandra chandravanshi University, Bishrampur, Jharkhand, India.
7. **Sunil Rameshgir Gosavi**, Department of Physics, C.H.C. Arts, S.G.P. Commerce and B. B.J.P. Science College, Taloda-425413, Nandurbar, (M.S.) India.

Inventor

1. Rajesh Arun Joshi
2. Nikhilesh Subhashchandra Bajaj

Country

Republic of South Africa

Research Monographs, Reference Books Published

Title: Metal Chalcogenides Thin Films-Fundamentals and its Sensor Applications, LAP LAMBERT Academic Publishing-2015.

ISBN: 978-3-659-79632-6

LIST of Publications...

2025-26

1. Study of Synthesis Dependent Physicochemical and Optoelectronic Properties of Nanocrystalline Lead Sulfide (PbS) Thin Films Deposited using Chemical Bath Deposition Method, Narayani Madhukar Gosavi, Kunal Rajabhau Sali, Rajesh Arun Joshi, Sunil Rameshgir Gosavi, Progress in Physics of Applied Materials, 5(2) (2025) 47-60. (ISSN No.: 2783-4794, Scopus Indexed Journal, **Impact factor: 0.394**)

2024-25

2. Raman Studies in Chemically Synthesized Nanocrystalline CuS Thin Films, Narayani M. Gosavi, T.R. Wagh, K.R. Sali, **S.R. Gosavi**, J. Nano-Electron. Phys. 16 No 6, 06028 (2024) (ISSN No.: 2077-6772, UGC CARE listed journal, **Impact factor: 0.394**)
3. SILAR synthesized nanocrystalline ZnO thin films: Role of varying dipping cycles on engineering the structural properties and optical band gap, Narayani M. Gosavi, T.R. Wagh, K.R. Sali, **S.R. Gosavi**, African Journal of Biomedical Research, Vol. 27(4s) (November 2024) 5075-5082. (ISSN No.: 1119-5096, UGC CARE listed journal, **Impact factor: 0.140**)

2023-24

4. Effect of Annealing on the Physical Properties of Chemically Synthesized Nanocrystalline SnO₂ Thin Films, S.S. Tayade, L.N.

Bhoye, K.R. Sali, G.E. Patil, M.S. Shinde, **S.R. Gosavi**, JOURNAL OF NANO- AND ELECTRONIC PHYSICS, Vol. 16 No 1, 01029(5pp) (2024). (ISSN No.: 2077-6772, UGC CARE listed journal, **Impact factor: 0.394**)

2022-23

5. Induction cycle influence on physicochemical and optoelectronic properties of nanostructured In₂S₃ thin films for photocatalytic activity, B. N. Kakade, N. M. Gosavi, K. R. Sali, S. R. Potdar, R. A. Joshi, **S. R. Gosavi**, Emergent Materials, 5 (2022) 1959-1971. (ISSN No.: 2522-574X, UGC CARE listed journal, **Impact Factor:3.76**) [Springer Nature]
6. Annealing Effect on the Physical Properties of Chemically Prepared Cu_{2-x}Se Films, S.R. Gosavi, Journal Of Nano- And Electronic Physics, Vol. 14 No 42, 04019(4pp) (2022) (ISSN No.: 2077-6772, UGC CARE listed journal, **Impact factor: 0.361**)

2021-22

7. Fabrication of Highly Conducting Ag₂S Thin Films on FTO Substrate by Using SILAR, B.N. Kakade, K.R. Sali, R.G. Bavane, N.M. Gosavi, **S.R. Gosavi**, *Advanced Materials Research*, 1169 (2021) 103-110. (ISSN No.: 1662-8985, UGC CARE listed journal)
8. Low-cost visible-light photodetector based on Ag/CdSe Schottky diode fabricated using soft chemical solution method, C. P. Nikam, Narayani M. Nikam, **S. R. Gosavi**, *SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology*, 12(2) (2020) 62-67. (ISSN No.: 2229-7111, UGC CARE listed journal)
9. Synthesis of rod-like ZnO nanostructure: Study of its physical properties and visible-light driven photocatalytic activity, N.T.

Shimpi, Y.N. Rane, D.A. Shende, **S.R. Gosavi**, P.B. Ahirrao, *Optik*, 217 (2020) 164916. (ISSN No.: 2229-7111, UGC CARE listed journal, **Impact factor: 2.84**) [Elsevier]

10. Room Temperature Synthesized TiO₂/Bi₂Se₃ Bilayer Thin Film by Simple Chemical Route: Study the Effect of Deposition Time of Bismuth Selenide on Physical Properties of Film, Vijay Baviskar, Dattatray M. Nerkar, Prashant Baviskar, Dipak Salunkhe, **S.R. Gosavi**, R.S. Patil, *JOURNAL OF NANO- AND ELECTRONIC PHYSICS*, Vol. 12 No 2, 02038(4pp) (2020). (ISSN No.: 2077-6772, UGC CARE listed journal, **Impact factor: 0.361**)
11. Band Gap Engineering in Spray Pyrolysis Grown Nanocrystalline NiO Thin Films by Fe Doping, H.S. Gavale, M.S. Wagh, **S.R. Gosavi**, *JOURNAL OF NANO - AND ELECTRONIC PHYSICS*, Vol. 11 No 4, 04015(6pp) (2019) (ISSN No.: 2077-6772, UGC CARE listed journal, **Impact factor: 0.361**)
12. Effect of annealing on the photocatalytic activity of chemically prepared TiO₂ thin films under visible light, K.B. Chaudhari, Y.N. Rane, D.A. Shende, N.M. Gosavi, **S.R. Gosavi**, *Optik*, 193 (2019) 163006. (ISSN No.: 2229-7111, UGC CARE listed journal, **Impact factor: 2.84**) [Elsevier]
13. Facile chemical synthesis of amorphous CdS thin film at room temperature, C. P. Nikam, B. N. Kakade, Y. N. Rane, D. A. Shende, **S.R. Gosavi**, *An International Multidisciplinary Quarterly Research Journal AJANTA*, VIII (I) Jan. March (2019) 37-41. (ISSN:2277-5730, UGC Approved Journal, {Journal No. 40776})
14. Study of physical properties of nanocrystalline NiO thin films prepared by using spray pyrolysis technique, H.S. Gavale, M.S. Wagh, R.B. Ahirrao, **S.R. Gosavi**, *Journal of Nanoscience and*

- Technology*, 5(1) (2019) 610-612. (ISSN: 2455-0191, UGC Approved Journal)
15. Bismuth ferrite thin film as an efficient electrode for photocatalytic degradation of Methylene blue dye, P.V. Mane, N.B. Shinde, I.M. Mulla, R. R. Koli, A.R. Shelke, M.M. Karanjkar, **S.R. Gosavi** and N.G. Deshpande, *Material Research Express*, 6 (2019) 026426 (10 pp.) (ISSN No.: 2053-1591, UGC CARE listed journal, **Impact factor: 2.025**) [IOP Science]
 16. Visible-light assisted CdO nanowires photocatalyst for toxic dye degradation studies, Y.N. Rane, D.A. Shende, M.G. Raghuwanshi, R.R.Koli, **S.R. Gosavi**, N.G. Deshpande, *Optik*, 179 (2019) 535–544. (ISSN No.: 2229-7111, UGC CARE listed journal, **Impact factor: 2.84**) [Elsevier]
 17. Structural and Optoelectronic Properties of Polycrystalline CdS Thick Film Prepared by Screen Printing, B.Y. Bagul, P.S. Sonawane, A.Z. Shaikh, Y.N. Rane, **S.R. Gosavi**, *JOURNAL OF NANO - AND ELECTRONIC PHYSICS*, Vol. 10 No 5, 05018(4pp) (2018). (ISSN No.: 2077-6772, UGC CARE listed journal, **Impact factor: 0.361**)
 18. Visible-light-driven photocatalytic activity of mixed phase CdS-flakes, D.A. Shende, Y.N. Rane, M.G. Raghuwanshi, N.M. Gosavi, **S.R. Gosavi**, N.G. Deshpande, *Optik*, 161 (2018) 284-292. (ISSN No.: 2229-7111, UGC CARE listed journal, **Impact factor: 2.84**) [Elsevier]
 19. Structural and Optoelectronic Properties of Nanocrystalline CdTe Thin Films Synthesized by Using SILAR Technique, S. Samanta, D.B. Salunke, **S.R. Gosavi**, R.S. Patil, *JOURNAL OF NANO - AND ELECTRONIC PHYSICS*, Vol. 9 No 5, 05028 (4pp) (2017). (ISSN No.: 2077-6772, UGC CARE listed journal, **Impact factor: 0.361**)

20. Synthesis of flower shaped ZnO thin films for resistive sensing of NO₂ gas, Y.N. Rane, D.A. Shende, M.G. Raghuwanshi, A.V. Ghule, V.L. Patil, P.S. Patil, S.R. Gosavi, N.G. Deshpande, *Microchimica Acta*, (2017) 184:2455–2463. (ISSN No.: 1436-5073, UGC CARE listed journal, **Impact factor: 6.408**) [Springer]
21. Effect of Uniform Decoration of Ag₂S Nanoparticles on Physical Properties of Granular TiO₂ 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). (ISSN No.: 2077-6772, UGC CARE listed journal, **Impact factor: 0.361**)
22. Chemical synthesis and characterization of CdSe thin films deposited by SILAR technique for optoelectronic applications, K.B.Chaudhari, N.M. Gosavi, N.G. Deshpande, **S.R. Gosavi**, *Journal of Science: Advanced Materials and Devices*, 1 (2016) 476-481. (ISSN No.: 2468-2179, UGC CARE listed journal, **Impact factor: 7.382**) [Elsevier]
23. 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. . (ISSN No.: 0976-3376, Scholarly Peer Reviewed, **Impact factor: 6.946**)
24. Effect of Deposition Temperature on Growth and Properties of Nanostructure Cadmium Sulphide Thin Films by 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. (ISSN No.: 2319-7625, Scholarly Peer Reviewed, **Impact factor: 6.723**)
25. Effect of Light Illumination on Electrical Properties of Nanocrystalline Cadmium Sulphide Thin Film Prepared on ITO by Chemical Route, **S. R. Gosavi**, *Journal of Pure Applied and Industrial Physics*, Vol.5(11), 316-323, November 2015. (ISSN No.: 2319-7617, Scholarly Peer Reviewed)
 26. Chemical synthesis and study of structural and optoelectronic properties of CdS thin films: Effect of SILAR growth cycles, K. B. Chaudhari, **S.R.Gosavi**, *JOURNAL OF ADVANCES IN PHYSICS*, Vol. 9, No. 3 (2015) 2461-2469. (ISSN No.: 2347-3487, Scholarly Peer Reviewed)
 27. Chemical synthesis of porous web-structured CdS thin films for photosensor applications, **S.R. Gosavi**, C.P. Nikam , A.R. Shelke, A.M. Patil, S.-W. Ryu, J.S. Bhat, N.G. Deshpande, *Materials Chemistry and Physics*, 160 (2015) 244-250. (ISSN No.: 0254-0584, UGC CARE listed journal, **Impact factor: 4.778**) [Elsevier]
 28. Fabrication and Characterization of SnS Thin Films Prepared by SILAR Method, Jitendra S. Suryawanshi, **S. R. Gosavi** and R. S. Patil, *Nano Vision*, Vol. 5(3), 31-38, March 2015. (ISSN No.: 2319-7633, UGC listed journal)
 29. Synthesis, Structural and Optoelectronic Properties of 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.
 30. 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 (Jan.-Feb. 2015), PP 21-26. (ISSN: 2278-4861, UGC Approved Journal)
31. 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. (ISSN: 2278-4861, Scholarly Peer Reviewed, Impact Factor:1.12)
32. Characterization of nanocrystalline CdS thin films deposited on FTO by CBD for photosensor applications, C. P. Nikam and **S. R. Gosavi**, *Advances in Applied Science Research*, 2014, 5(5):267-272.
33. 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. (ISSN: 2278-4861, UGC Approved Journal)
34. 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. 3; 2416-2423.
35. Effect of Post-deposition Heat Treatment on the Physical Properties of SILAR Grown Tin Disulfide, N.G. Deshpande, A. Ghosh,

- R. R. Ahire, **S.R. Gosavi**, R. R. Kasar, H. K. Sadekar, J. B. Chaudhary and Ramphal Sharma, *Journal of Scientific Review*, Volume 4, Issue 1, (2012) 196-202.
36. Wide band gap nanocrystalline CuSCN thin films deposited by modified chemical method, P. B. Ahirrao, S. R. Gosavi, Sanjay. S. Sonawane and R. S. Patil, *Archives of Physics Research*, 2011, 2 (3):29-33.
37. Studies on Characterization of Nanocrystalline Silver Sulphide Thin Films Deposited by Chemical Bath Deposition (CBD) and Successive Ionic Layer Adsorption and Reaction (SILAR) method, U. M. Jadhav, **S.R. Gosavi**, S. N. Patel, R.S. Patil, *Archives of Physics Research*, 2011, 2 (2): 27-35.
38. Photoluminescence properties of modified chemical bath deposited Copper Oxide thin film, P. B. Ahirrao, **S.R. Gosavi**, D. R. Patil, M. S. Shinde and R. S. Patil, *Archives of Applied Science Research*, 2011, 3 (2):288-291.
39. Effect of high electronic energy loss of 100 MeV gold heavy ions in copper chalcogenides (CuX, X = S, Se) at nanoscale: Opto-electronic properties study, Ramphal Sharma, Abhay Abhimanyu Sagade, **Sunil Rameshgir Gosavi**, Yuvraj Ganesh Gudage, Arindam Ghosh, P. Kulariya, I. Sulaniya, Rajaram S. Mane, Sung-Hwan Han, *Journal of Non-Crystalline Solids*, 355 (2009) 1653–1658. (ISSN No.: 0022-3093, UGC CARE listed journal, **Impact factor: 4.458**) [Elsevier]
40. Copper selenide Thin Films- An Overview, **S.R. Gosavi**, Y. G. Gudage, A. Ghosh, Ramphal Sharma, *RESEARCH Link*, Issue 54, Vol.VII(7)(2008)58-60.

41. Growth, structural, optical and electrical study of ZnS thin films deposited by solution growth technique (SGT), H.K. Sadekar, N.G. Deshpande, Y.G. Gudage, A. Ghosh, S.D. Chavhan, **S.R. Gosavi**, Ramphal Sharma, *Journal of Alloys and Compounds*, 453 (2008) 519–524. (ISSN No.: 0925-8388, UGC CARE listed journal, **Impact factor: 6.371**) [Elsevier]
42. Physical, optical and electrical properties of copper selenide (CuSe) thin films deposited by solution growth technique at room temperature, **S.R. Gosavi**, N.G. Deshpande, Y.G. Gudage, Ramphal Sharma, *Journal of Alloys and Compounds*, 448 (2008) 344–348. (ISSN No.: 0925-8388, UGC CARE listed journal, **Impact factor: 6.371**) [Elsevier]

Editing of the proceedings of the Seminar

1. 'Souvenir-Advances in Nano Structured Materials and Their Applications' (ISBN: 978-93-82414-41-4, Prashant Publication, Jalgaon), of National level seminar on, "Advances in Nanostructured Materials and their Applications", sponsored by UGC (WRO) during 22nd-23rd January 2013 organized by Department of Physics, A.S. Mandal's, Arts & Commerce College Trusts, C.H.C Arts, S.G.P. Commerce and B.B.J.P. Science College, Taloda-425413.

Book Chapters

1. S.R. Gosavi, H.S. Gawale, K.R. Sali, Chapter 5: Overview of Nickel Oxide (NiO) Thin Films for Gas Sensing Applications in *New Trends in Physical Science Research Vol. 5* (PP 47-64). Edited by Dr. Sebahattin Tüzemen Professor, Department of Physics, Faculty of Science, Atatürk University, Turkey. eBook ISBN: 978-93-5547-320-2 (B.P. International Publisher) (11.06.2022).
2. Luminescent Metal Oxides: Materials to Technologies, Modern

Synthesis Techniques for Metal Oxides II, CRC Press, Taylor and Francis Group, ISBN:9781032415611 (2023).

- Environment: Issues and Challenges Application of binary metal oxide thin film in photocatalysis for environmental remediation: A review, Eagle Leap Printers and Publishers Pvt. Ltd. Pune, ISBN:978-81-963340-7-9 (2023).

Text Book Published

Sr. No.	Title of the Book	Year of Publication	Level at which recommended	Publisher & ISBN No.
2025-26				
1.	<u>PH-211: Modern Physics</u>	August 2025	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN: 978-81-992030-0-6
2.	<u>PH-212: Ancient Indian Astronomy</u> (Subject Specific IKS)	July 2025	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN: 978-81-990236-0-4
3.	<u>PH-213: Practical Physics</u>	August 2025	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN: 978-81-991207-3-0
4.	<u>PH-214: Fundamentals of Physics</u>	August 2025	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN: 978-81-991829-4-3
5.	<u>PH-215: Solar, Thermal and Photovoltaic systems</u>	August 2025	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN: 978-81-991207-0-9
6.	<u>PH-222: Practical Physics (e-Book)</u>	May-2025	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN: 978-93-49325-88-3
7.	<u>PH-213: Practical Physics (e-Book)</u>	May-2025	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN: 978-93-49325-25-8
2024-25				
8.	<u>PH-122: Practical Physics</u>	January 2025	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN: 978-93-48537-25-6
9.	<u>PH-112: Practical Physics</u>	August 2024	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-48040-40-4
10.	<u>University Physics for Undergraduates (Volume-I): Mathematical Physics</u>	July 2024	B.Sc. Students	Prashant Publication Jalgaon ISBN:978-81-974461-4-6
11.	<u>University Physics for Undergraduates (Volume-II)</u>	July 2024	B.Sc. Students	Prashant Publication Jalgaon ISBN:978-81-974461-9-1
12.	<u>University Physics for Undergraduates (Volume-III): Waves, Oscillations and Acoustics & Optics and Lasers</u>	July 2024	B.Sc. Students	Prashant Publication Jalgaon ISBN:978-81-974461-6-0

2022-23				
13.	<u>PHY-201: Electricity and Electrostatics</u>	February 2023	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-95227-72-8
14.	<u>PHY-202: Dielectrics, Magnetism and Electromagnetism</u>	February 2023	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-95227-71-1
15.	<u>PHY-103 and 203: Practical Physics</u>	September 2022	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-95227-20-9
16.	<u>PHY-101:Basic Mechanics</u>	August 2022	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-95227-00-1
17.	<u>PHY-102: Dynamics and Properties of Matter</u>	August 2022	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN: 978-93-95227-01-8
2021-22				
18.	<u>PHY-604: Modern and Applied Physics</u>	June 2021	T.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-90862-90-0
19.	<u>PHY-501: Mathematical Physics</u>	October 2020	T.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-90483-14-3
2019-20				
20.	<u>PHY-404: Electrical Circuits and Network Skills (SEC)</u>	March 2020	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-89501-40-7
21.	<u>PHY-403: Practical Physics</u>	January 2020	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-89501-19-3
22.	<u>PHY-402: Optics and Lasers</u>	December 2019	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-89492-65-1
23.	<u>PHY-301: Thermodynamics and Kinetic Theory of Gases</u>	July 2019	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-88769-29-7
24.	<u>PHY-302(A): Electronics- I</u>	July 2019	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-88769-28-0
25.	<u>PHY-303: Practical Physics</u>	September 2019	S.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-89492-22-4
2018-19				
26.	<u>PHY-201: Electricity and Electrostatics</u>	December 2018	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-88113-81-6
27.	<u>PHY-202:Dielectrics, Magnetism and Electromagnetism</u>	December 2018	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-88113-82-3
28.	<u>PHY-203:Practical Physics</u>	January 2019	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-88113-83-0
29.	<u>PHY-101:Basic Mechanics</u>	August 2018	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-88113-36-6
30.	<u>PHY-102: Dynamics and Elasticity</u>	September 2018	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-88113-37-3
31.	<u>PHY-103:Practical Physics</u>	August 2018	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN:978-93-88113-52-6
2016-17				
32.	<u>PHY-241: Modern Physics</u>	December 2016	S. Y. B.Sc.	Vrinda Publication Jalgaon ISBN: 978-93-85028-92-2
33.	<u>PHY-242:OPTICS</u>	December 2016	S. Y. B.Sc.	Prashant Publication Jalgaon ISBN 978-93-82414-78-0
34.	<u>PHY-243:PRACTICAL PHYSICS- Modern Physics, Optics and Laser</u>	January 2017	S. Y. B.Sc.	Prashant Publication Jalgaon ISBN 978-93-82528-13-5

35.	<u>PHYSICS-PHY-241: Modern Physics</u>	December 2016	S. Y. B.Sc.	Prashant Publication Jalgaon ISBN 978-93-82414-75-9
36.	<u>PHY-231: Waves and Oscillations</u>	July 2016	S. Y. B.Sc.	Prashant Publication Jalgaon ISBN 978-93-81546-26-0
37.	<u>PHY-232(A)-Electronics-I</u>	July 2016	S. Y. B.Sc.	Prashant Publication Jalgaon ISBN 978-93-81546-32-1
38.	<u>PHY-233: PRACTICAL PHYSICS General, Waves and Oscillations, Electronics-I OR Instrum.-I</u>	July 2016	S. Y. B.Sc.	Prashant Publication Jalgaon ISBN 978-93-81546-80-2
2015-16				
39.	<u>PHY-121: Heat and Thermodynamics</u>	January 2016	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN 978-93-85019-83-8
40.	<u>PHY-112 Electricity and Magnetism</u>	July 2015	F.Y.B.Sc.	Prashant Publication Jalgaon ISBN 978-93-85021-69-5
41.	<u>PHY121 : Heat and Thermodynamics</u>	November 2013	F.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 978-81-926449-1-2
42.	<u>PHYSICS: PHY-241: Modern Physics</u>	November 2013	S.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 978-81-926449-5-0
43.	<u>PHY 231: Waves and Oscillations</u>	July 2013	S.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 81-7815-064-6
2012-13				
44.	<u>PHYSICS for S.Y.B.Sc. PHY 222: Applied Physics-I</u>	December 2012	S.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 81-7815-001-8
45.	<u>PHYSICS PRACTICAL PHY-103: Practical Course</u>	July 2012	F.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 81-7815-016-6
46.	<u>PHY 112: Electricity and Magnetism (First Edition)</u>	July 2012	F.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 81-7815-013-1
47.	<u>PHY 111: Mechanics and Properties of Matter (First Edition)</u>	July 2012	F.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 81-7815-012-3
2010-11				
48.	<u>PHY 122: Applied Physics</u>	January 2011	F.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 81-7815-090-5
49.	<u>PHY 121: Heat and Thermodynamics</u>	January 2011	F.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 81-7815-092-1
50.	<u>PHY 112: Electricity and Magnetism</u>	July 2010	F.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 81-7815-095-6
51.	<u>PHY 111: Mechanics and Properties of Matter</u>	July 2010	F.Y.B.Sc.	Vrinda Publication Jalgaon ISBN 81-7815-094-8

Resource person/Talks delivered

Sr. No.	Title of the talk	Venue & Date
1.	<u>National Education Policy (NEP)-2020: Some Key Changes in Higher Education</u>	Faculty Development Programme on "NEP-2020: Awareness and Implementation" organized by Govt. Arts and Commerce College, Netrang Dist. Bharuch on 25.03.2025

2.	<u>Nanocrystalline ZnO Thin Films: Synthesis techniques and Characterizations for biomedical applications</u>	One Day National Level Conference on “Present and Future Opportunities for Drug Design and Development within Nanobiomedicine” organized by H.R. Patel Institute of Pharmaceutical Education and Research, Shirpur on 19.03.2025
3.	<u>Intellectual Property Rights (IPR) - Patent & Designs Process.</u>	One day National E-Workshop on Intellectual Property Rights (IPR) - Patent & Designs Process organized by C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College Taloda on 19 th December, 2024
4.	<u>Introduction to Research Methodology</u>	Workshop on Research on “Research Methodology” organized by V.N. Naik College Shahada on 05.03.2024
5.	<u>“Internship: The objective of National Education Policy 2020”</u>	Workshop organized by C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College Taloda on 12.02.2024
6.	<u>National Education Policy 2020: Theme and Prospects</u>	Workshop organized by IQAC of K.B.C.N.M.U. Jalgaon and C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College Taloda on 09.01.2024
7.	<u>National Education Policy 2020: Theme and Prospects</u>	Workshop organized by IQAC of K.B.C.N.M.U. Jalgaon and V.V. Mandals’, Arts and Commerce College Akkalkuwa on 09.01.2024
8.	<u>National Education Policy 2020-An Overview</u>	Workshop on National Education Policy 2020 organized by C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College Taloda on 03.08.2023
9.	<u>Intellectual Property Rights (IPR) - Patent & Designs Process.</u>	One day National E-Workshop on Intellectual Property Rights (IPR) - Patent & Designs Process organized by C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College Taloda on 22 nd May, 2023
10.	<u>Concept of Quality Enhancement Initiatives</u>	One day workshop on “Quality Enhancement Initiatives organized by C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College Taloda on 22.02.2023
11.	<u>Research Opportunities for Physics Students</u>	National e-Conference on “New Perspectives and Opportunities in Physics (NCNPOP-2021)” organized by Departments of Physics, Vasantrao Naik Arts Science and Commerce College, Shahada on 13 th October 2021
12.	<u>X-ray Analysis</u>	Online webinar organized by Departments of Physics, R. C. Patel Arts Comm. & Sci. College, Shirpur on 29 th May 2020.
13.	<u>Understanding of Basic Science through innovative experiments</u>	In Bal Vigyan Mela for Tribal Children organized by Arts, Science and Commerce College Dahiwel on behalf of KBCNMU, Jalgaon and Vigyan Prasara, New Dehi on 29 th September 2019.

14.	<u>Inventions in Basic Science</u>	In Bal Vigyan Mela for Tribal Children organized by P.S.G.P.M.s Arts, Science and Commerce College Shahada on behalf of KBCNMU, Jalgaon and Vigyan Prasar, New Delhi on 24 th September 2019.
15.	<u>Nanomaterials for Energy Conversion</u>	National conference on non-conventional energy sources for rural development of India organized by Uttamrao Patil Arts and Science College Dahiwel on 6 th January 2018.
16.	<u>LASER: Basics and Applications</u>	National level workshop on “Net/SET coaching in Physical Sciences” organized by P.S.G.P.M.s Arts, Science and Commerce College Shahada on 4-5 th January 2018.
17.	<u>Soft chemical solution synthesis of nanocrystalline metal chalcogenide thin films for photosensor applications</u>	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.

Design of New Curriculum and Courses

Sr. No.	Workshop Details
1.	S.Y.B.Sc. (Physics) (NEP-2020) syllabus restructuring workshop organized by Arts, Commerce and Science College Mhasadi on <u>27th December 2024</u>
2.	F.Y.B.Sc. (Physics) (NEP-2020) syllabus restructuring workshop organized by R. C. Patel Arts, Commerce and Science College Shirpur on <u>30th September 2023</u> .
3.	F.Y.B.Sc. Physics (CBCS Pattern) Syllabus Framing workshop organized by Nanasahab Y. N. Chavan Arts, Commerce and Science College, Chalisgaon on <u>11th April 2022</u> .
4.	T.Y.B.Sc. Physics (CBCS Pattern) Syllabus Framing using ICT tools in the work from home mode for the period <u>26/03/2020 to 20/05/2020</u>
5.	Online workshop on curriculum development in Physics at T.Y.B.Sc. (CBCS pattern) organized by P.S.G.V.P. Mandal’s Arts, Commerce and Science College Shahada on <u>15-16th May 2020</u> .
6.	Workshop of Syllabus restructuring of at S.Y.B.Sc. Physics as per CBCS pattern of UGC organized by D. N. Chaudhari College Faizpur on <u>27th February 2019</u> .
7.	One-day syllabus framing workshop of M.Sc. II (Physics) organized by P.S.G.V.P. Mandal’s Arts, Commerce and Science College Shahada on <u>16th July 2018</u> .
8.	Workshop on restructuring the syllabus of F.Y.B.Sc. (Physics) as per CBCS pattern of UGC organized by C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College, Taloda on <u>30th June 2018</u> .

9.	Workshop of Syllabus Framing of Physics at T.Y.B.Sc. organized by P.S.G.V.P. Mandal's Arts, Commerce and Science College Shahada on <u>25th February 2017</u> .
10.	Workshop on Second Year B.Sc. Physics syllabus revision organized by Uttamrao Patil Arts and Science College Dahiwel on <u>14th January 2016</u> .
11.	One day workshop on F.Y.B.Sc. Physics syllabus revision organized by Dr. P. R. Ghogare Science College Dhule on <u>17th January 2015</u> .
12.	Workshop on restructuring the syllabus of T.Y.B.Sc. (Physics) organized by R. C. Patel Arts, Commerce and Science College Shirpur on <u>23rd and 24th February 2014</u> .
13.	One day Workshop on Syllabus Framing of S.Y.B.Sc. Physics held on <u>10th February 2013</u> organized by Arts, Commerce and Science College Jamner.
14.	Workshop on F.Y.B.Sc. Physics Syllabi revision held at S.G.Patil Arts, Commerce and Science College Sakri, on <u>27th March 2012</u> .
15.	Workshop on restructuring of syllabi for Physics at S.Y.B.Sc. held during <u>11th-12th December, 2007</u> organized by Department of Physics, Rashtriya Arts, Commerce and Science College, Chalisgaon.
16.	Workshop on F.Y.B.Sc. Physics Syllabi revision held at Pratap College, Amalner, on <u>25th February 2007</u> .
17.	Workshop on Syllabus Framing for S.Y.B.Sc. (Physics) organized by Department of Physics. G. T. Patil College, Nandurbar on <u>25th February 2003</u> .
18.	Workshop on F.Y.B.Sc. Physics Syllabi revision held at Pratap College, Amalner, on <u>17-18th February 2002</u> .
19.	Workshop on restructuring and preparation of syllabi in Physics at T.Y.B.Sc. held at Department of Physics, J.E.S's Arts, Commerce and Science, college, Nandurbar on <u>13th and 14th February, 1999</u> .
20.	Workshop on reformation of syllabi in Physics, for S.Y.B.Sc. held at Department of Physics S.S.M.M. Arts, Science and Commerce College, Pachora, on <u>4th February 1998</u> .
21.	Workshop on reformation of syllabi in Physics and Electronics held at Department of Physics, North Maharashtra University, Jalgaon on <u>4th January 1997</u> .
22.	Workshop on T.Y.B.Sc. Physics Syllabus held in the Department of Physics, S.S.V.P.S'S L.K. Dr. P. R. Ghogrey Science College, Dhule, on <u>9th Jan.1994</u> .

Academic Training Programmes attended

Sr. No.	Programme	Duration
1.	<u>Online Short Term Programme on Human Rights (Participated as a coordinator)</u> conducted by H.R.D.C., D.A.V.V., Indore through online mode.	17 th January, 2022 to 22 th January, 2022
2.	<u>Short term Programme on Intellectual Property Rights (IPR)</u> conducted by H.R.D.C., D.A.V.V., Indore	20 th September 2021

	through online mode.	to 25 th Sept 2021
3.	<u>Train-The-Teacher training program organized by KBCNMU, Jalgaon.</u>	20 th July 2020 to 24 th July 2020
4.	<u>34th Online Short term Course on E-content Development</u> sponsored by HRDC Gujarat University Ahmadabad.	28 th May 2020 to 3 rd June 2020
5.	<u>UGC sponsored 6th Refresher course in Computer Applications</u> conducted by UGC-HRDC, DAVV, Indore.	14 th November 2018 to 4 th December 2018
6.	<u>A course titled “Advanced Geospatial Modelling tools and techniques”</u> organized jointly by Indian Institute of Remote Sensing and C.H.C. Arts, S.G.P. Commerce and B.B.J.P. Science College, Taloda.	6 th August 2018 to 10 th August 2018
7.	<u>Short term Course on Advances in Nano science and Nanotechnology</u> sponsored by HRDC SPPU Poona.	22 nd - 28 th December 2017
8.	<u>Online Course of Learning Physics through Simple Experiments</u> organized by Centre for Development of Technical Education, IIT, Kanpur.	20 th Sept. 2016 to 20 th Nov. 2016
9.	<u>First refresher course</u> in Physical Sciences (Interdisciplinary) refresher program conducted by Banaras Hindu University, Varanasi, organized by Department of Physics, Banaras Hindu University, Varanasi.	31 st January 2012 to 20 th February 2012
10.	<u>Orientation program</u> conducted by University of Poona, Pune related to the Value Education.	28 th November to 25 th Dec. 2003
11.	<u>Refresher program</u> conducted by University of Poona, Pune related to the Environmental Science organized by Department of Environmental Science, Shivaji University Kolhapur.	25 th November to 15 th December 2002
12.	<u>Refresher program</u> conducted by North Maharashtra University, Jalgaon, related to the Physics organized by Department of Physics, Pratap College Amalner.	18 th Dec. 1995 to 14 th Jan. 1996

Organization of national or international or University /College Level Events

Sr. No.	Event	Duration
1.	One-day state level webinar on “Strategies to crack competitive exams in Chemical Science”, Jointly Organized by Institute For Advanced Studies (IFAS), Pune and A. S. Mandal’s, Arts and Commerce College Trust’s C. H. C. Arts, S. G. P. Commerce and B. B. J. P. Science College, Taloda.	11 th March 2022
2.	One-day state level Webinar on “Unwrapping brighter future opportunities after Life Science”, Jointly Organized by Institute For Advanced Studies (IFAS), Pune and A. S. Mandal’s, Arts and Commerce College Trust’s C. H. C. Arts, S. G. P. Commerce and B. B. J. P. Science College, Taloda.	11 th March 2022
3.	Coordinator of one-week short term programme on “Human Rights” was jointly organised by U.G.C. H.R.D.C. DAVV, Indore, Maharashtra National Law University, Nagpur and A. S. Mandal’s, Arts and Commerce College Trust’s, C. H. C. Arts, S. G. P. Commerce and B. B. J. P. Science College, Taloda (M.S.).	17 th - 22 nd January 2022
4.	University Level Avishkar-2019 Phase I	30 th December 2019
5.	University level workshop on re-structuring the syllabus of F.Y.B.Sc. (Physics) as per CBCS pattern sponsored by NMU, Jalgaon	30 th June 2018
6.	Short term Course on Advances in Nano science and Nanotechnology sponsored by HRDC SPPU Poona	22 nd to 28 th December 2017
7.	University Level Avishkar-2017 Phase I	21 st Dec. 2017
8.	Workshop for B.Sc. students for Pharma Regulatory Affairs and Clinical research	18 th September 2017
9.	Three days seminar on Entrepreneurship was organized for the UG Students sponsored by Maharashtra Centre for Entrepreneurship Development (MCED)	16 th to 18 th January 2017
10.	National Seminar on “ Advances in Nanostructured Materials and Their Applications” sponsored by UGC (WRO)	22 nd to 23 rd January 2013

Participation in National/International Conferences

Sr. No.

Conference Details

1. One Day National Level Multidisciplinary Conference on “Ground Water Resource Management: Challenges and Opportunities” organized by G.T.P. College Nandurbar on 21st February 2025.

2. One Day National Conference on “The Socio-Economic Status and Issues of the Scheduled Tribes and Nomadic Tribes” Organized by 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 on 27th March 2024.
3. National conference on “Advances for Sustainable Environment: Chemical, Physical, and Biological Approaches” organized by S.G. Patil Arts, Commerce and Science College Sakri on 2nd March 2024.
4. “One Day National Conference on “Recent Innovations in Science and Technology (RIST-2024)” organized by P.S.G.P.M.s Arts, Science and Commerce College Shahada on 22nd March 2024
5. International e-Conference on “Advancements in Material Science: Trends and Applications organized by RAYAT SHIKSHAN SANSTHA’S MAHATMA PHULE ARTS, SCIENCE AND COMMERCE COLLEGE, PANVEL. DISTRICT- RAIGAD on 25th January 2024.
6. International multidisciplinary conference on G20: Issues and Challenges organized by V.V. Mandals’, Arts and Commerce College Akkalkuwa on 20-21st October 2023.
7. International conference on “Innovative sustainable practices in Science and Technology” by D.N.C.V.P.S., S.M. Chaudahri College Jalgaon on 26th November 2022
8. S. Z. S. P. Mandal’s Shri Pancham Khemraj Mahavidyalaya, Sawantwadi, Dist. Sindhudurg Department of Physics Organized One Day International Conference on Clean Energy Conversion and Storage Technologies on 30th April 2020.
9. National Conference on Recent Trends in Novel Methods in Synthetic Chemistry organized by P.S.G.P.M.s Arts, Science and Commerce College Shahada on 22nd February 2019
10. National Conference on Materials Science: Advancement and Innovations organized by S.S.V.P.S’S L.K. Dr. P. R. Ghogrey Science College, Dhule, on 20th February 2019
11. National Conference on non-conventional energy sources for rural development of India organized by Uttamrao Patil Arts and Science College Dahiwel on 6th January 2018.
12. 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 27th -28th January 2017.
13. National Conference on Electronic Materials, Thin Films and Its Applications (NCEMTFA-2016) organized by Department of Electronics & Physics, J.D.M.V.P. Co.-Op. Samaj’s ASC College, Jalgaon (M.S.) India, during 9th-10th December 2016.
14. 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.
15. 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.
 16. International Conference on Materials Science and Ionizing Radiation Safety & Awareness (ICMSIRSA-2016) organized by Department of Physics, Shivaji University, Kolhapur during 28th -30th January 2016.
 17. 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 6th-8th February 2014.
 18. 2nd International Conference on Physics of Materials and Materials Based Device Fabrication, (ICPM-MDF-2014) organized by Department of Physics, Shivaji University, Kolhapur during 13th -15th January 2014.
 19. 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 6th -7th October 2012.
 20. International conference on advanced materials and applications-2007 (ICAMA-2007) organized by Department of Physics, Shivaji University, Kolhapur during 15th -17th November, 2007.
 21. National conference on current trends in materials research for advanced technology (NCMRAT-2007) organized by Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, India, 29th -31st January 2007.
 22. National conference on recent trends in composites (sponsored by U.G.C.) organized by P.G. Department of Physics, Shri Shivaji Science College, Amravati, during 28th February to 2nd March, 2001.

National and International Seminars attended

2020-21

1. International webinar on Innovations in Materials for Energy and Environment held on 9th August 2020 organized jointly by Maharashtra Academy of Sciences, Pune, C-MET Pune, and C.T. Bora College Shirur.
2. National Level Webinar organized by Nanjil Catholic College of Arts & Science Kaliyakkavilai, Kanyakumari on "Nano Structure-Gas Sensing" held on 17th July 2020.
3. Webinar: X-Ray Diffraction-Technology and Applications in Pharmaceutical Sciences Organized By R. C. Patel Institute of Pharmaceutical Education and Research, Shirpur on 15th June 2020.

2019-20

4. Webinar organized by JNU, New Delhi on “Webinar on Material Science, Technology and Society” on 8th -9th May 2020.
5. One day online national seminar on Advances in Material Science organized by Department of Chemistry of M.D. College of Arts, Science and Commerce Parel Mumbai on 20th May 2020.

2015-16

6. 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

2014-15

7. 3rd National Seminar on Physics of Materials and Materials Based Device Fabrication, (3rd NSPM-MDF-2014) organized by Department of Physics, Shivaji University, Kolhapur during **19th and 20th December 2014**.

2012-13

8. National Seminar on Advanced Materials and its Applications, organized by S.V.S. Arts and Science College Dondaicha during **1-2nd February 2013**.

2009-10

9. State level Seminar on Advances in Science and Technology of Nanomaterials (AISATON-2010) organized by S. G. Patil Arts, Science and Commerce College, Sakri during **8-9th March 2010**.

2008-09

10. State level Seminar on Recent Advances in Nanocrystalline Materials and Applications (2009) organized by P.S.G.P.M.s Arts, Science and Commerce College Shahada on **6-7th February 2009**.
11. University Level Seminar on “Non-conventional Energy sources”, organized by D. N. Bhole College Bhusawal on **18th December 2008**.

1990-91

12. Seminar on “ liquid crystals and their applications” organized by Department of Physics, S.S.V.P.S'S L.K. Dr. P. R. Ghogrey Science College, Dhule, on 29th and **30th March 1991**.