



Dr. Vishwanath Dattu Mote

Present Address

Thin Films and Materials Research Laboratory,
Department of Physics, Dayanand Science College
Latur – 413 512, Maharashtra, India.
Email id: vmote.physics@gmail.com

Gender : Male
DOB : 06.05.1986
Marital Status: Married
Mobile : +91 9960639169

▪ **Academic Qualification**

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|-----------------------|---|
| 2012 - Present | Assistant Professor of Physics , Department of Physics, Dayanand Science College, Latur, Maharashtra, India. |
| 2008 – 2012 | Ph. D. in Nanomaterials (Physics), Advanced Materials Research Laboratory, Department of Physics, Dr. B. A. M. University, Aurangabad – 431 004, Maharashtra, India. |
| 2006 – 2008 | M. Sc. (Physics) , Department of Physics, Dr. B. A. M. University, Aurangabad – 431 004, Maharashtra, India. |
| 2003 – 2006 | B. Sc. (Physics, Chemistry, Mathematics) , Jawahar College, Andur, Tuljapur, Dr. B. A. M. University, Aurangabad– 431004, Maharashtra, India. |
| 2009 – 2011 | Golden Jubilee Junior Research Fellowship (JRF) , Department of Physics, Dr. B. A. M. University, Aurangabad –431004, Maharashtra, India. |

- **Research Guide (Supervisor) (2018 -till date):** Recognition from Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra.
- **Post Graduate (P.G.) Teacher in Physics (2016 – till date):** Recognition from Swami Ramanand Teerth Marathwada University, Nanded, Maharashtra.

▪ **Areas of Research**

- Dilute Magnetic Semiconductor Thin Films.
- Gas Sensors
- Solar Cells
- Nanomaterials: Nanoparticles, porous materials, thin films, nanocomposites.
- Superconductors: Eu-123, Gd-123.
- Physical modeling: UDM, USDM, UEDM.

▪ **Ph. D Details**

- Ph. D thesis title: **Studies on Mn doped ZnO and ZnS nanomaterials.**
- Guide Name: **Dr. B. N. Dole, Associate Professor, Advanced Materials Research Laboratory, Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad- 431 004, Maharashtra State, India.**
- University: **Dr. Babasaheb Ambedkar University, Aurangabad- 431 004, Maharashtra State, India.**
- Date of Registration: **11 December 2008.**
- Year of Award: **14 May 2012.**

▪ **Awards and achievements:**

- **Best Research Award (2021) from Science Father** registered by Ministry of Corporate Affairs (MCA), Government of India.
- **Top 25 Hottest Article** entitled “Structural studies of Mn doped ZnO nanoparticles” in *Current Applied Physics (2011)*
- **New Data to Nanoparticles Findings**, News of Science& Vertical NEWS, USA, **July 3, 2011.**
- **Highly Accessed and Highly Cited (1177)** articles entitled “Williamson-Hall analysis in estimation of lattice strain in nanometer-sized ZnO particles” in *Journal of Theoretical and Applied Physics, 2012; 6: 6.*
- **Keynote Speaker: International conference on Condensed Matter Physics and Materials “A World of Opportunities Focus on the Prospect Advances in Condensed Matter Physics and Materials”** during **October 25-26, at Paris, France.**
- **Chief Guest:** International Science Day at Mahatma B. College, Latur, Maharashtra, Dated: 10.11.2017.
- **Resource Person:** National Conference on “Research Development in Materials Science and its Applications during 22.01.2019 at New Arts, Science and Commerce College, Shevgaon, Dist: Ahemdnagar”.
- **Chairperson:** National Conference on “Research Development in Materials Science and its Applications during 22.01.2019 at New Arts, Science and Commerce College, Shevgaon, Dist: Ahemdnagar”.

▪ **No. of Ph. D. Students working under the Guidance: 03**

▪ **Refresher courses**

1. Completed a Third refresher course on “**Materials Preparation & Measurement of Properties**” conducted by the **Indian Academy of Science (IASC), Bangalore** during December 02 – 17, 2014.
2. Completed a Refresher course in “**Environmental studies (ID)**” from 26.11.2016 to 16.12.2016 at **UGC-HRDC, Guru Nanak Dev University, Amritsar, Punjab, India.**
3. Successfully completed the UGC sponsored “**Refresher course –Basic Sciences**” during 21st December 2020 to 2nd January 2021 organized by **UGC-HRDC, Sant Gadge Baba Amravati University Amravati.**

▪ **Orientation Course**

1. **90th NSS orientation** course at Ahemdnagar College, Ahemdnagar.
2. **111th Orientation Course** during 26th May to 22nd June, 2016 at UGC-HRDC, Panjab University, Chandigarh.

• **Faculty development Programme**

1. “**Managing online classes and Co-creating MOOCS: 2.0**” successfully completed Two weeks Faculty development programme from May 18 – June 03, 2020 organized by Teaching learning centre Ramanujan College, New Delhi sponsored by Ministry of HRD, PMMM, National Mission on teacher and teaching, Government of India.
2. “**Managing online classes and Co-creating MOOCS**” successfully completed Two weeks Faculty development programme from April 20 – May 06, 2020 organized by teaching learning centre Ramanujan College, New Delhi sponsored by Ministry of HRD, PMMM, and National Mission on teacher and teaching, Government of India.
3. One week national online faculty development programme on ICT tools for effective teaching learning successfully completed from April 27 – May 02, 2020 organized by School of mathematical Sciences, S. R. T. M. University, Nanded.

4. One week faculty development programme on Scilab successfully completed from May 01 – 07, 2020 jointly organized by Rajarshi Shahu Mahavidyalaya (Autonomous), Latur and Spoken tutorial project IIT, Bombay.
- One Chapter entitled **“ELECTROMAGNETIC ENERGY”** in book published. The edited book entitled, **“THE SCIENCE OF ENERGY”** having ISBN No. 978-81-929628-3-2.

- **List of Publications (Published in Refereed Journals):**

1. Structural, optical, and magnetic properties of Mn-doped ZnS nanoparticles
V. D. Mote, B. N. Dole
Journal of Materials Science: Materials in Electronics, 1-10, **2020**.
<https://doi.org/10.1007/s10854-020-04790-w>
2. Ammonia gas sensing properties of Al doped ZnO thin films
L. H. Kathwate, G. Umadevi, P. M. Kulal, P. Nagaraju, D. P. Dubal, A. K. Nanjundan, **V. D. Mote**
Sensors and Actuators A: Physical, 313, 112193, **2020**.
3. Fabrication of Al-doped ZnO nanoparticles and their application as a semiconductor-based gas sensor for the detection of ammonia
H. A. Varudkar, G. Umadevi, P. Nagaraju, J. S. Dargad, **V. D. Mote**.
Journal of Materials Science: Materials in Electronics, 31 (15), 12579-12585, **2020**.
4. Study of structural, optical, and paramagnetic properties of $Zn_{1-x}Co_xS$ nanoparticles prepared via co-precipitation
V. V. Jadhavar, V. D Mote, B. S. Munde
Journal of Materials Science: Materials in Electronics, 31 (20), 17297-17306, **2020**.
5. Structural, optical and magnetic properties of Co doped CuO nan-particles by sol-gel auto combustion technique, S. P. Kamble, **V. D. Mote**, **Solid State Sciences**, 95, 105936, **2019**.
6. Precipitated cobalt doped ZnO nanoparticles with enhanced low temperature xylene sensing properties, Umadevi Godavarti, **V.D. Mote**, MV Ramana Reddy, P

- Nagaraju, Y Vijaya Kumar, Kalyana Tulasi Dasari, Madhava P Dasari, **Physica B: Condensed Matter**, 553, 151-160, **2019**.
7. Structural, morphological, magnetic and electrical properties of Ni-doped ZnO nanoparticles synthesized by co-precipitation method, M. Dasari, Umadevi Godavarti, **V.D. Mote**, **Processing and Application of Ceramics** 12 (2), 100–110, **2018**.
 8. Formation of defect, oxygen vacancy creation, and shifting of phonon mode by Li³⁺ swift heavy ion irradiation on Zn_{1-x}Mn_xO thin films, H.A. Khawal, **V.D. Mote**, K. Asokan, B.N. Dole, **Journal of Solid State Electrochemistry**, 22(4), 1237-1248, **2018**.
 9. Precipitated Nickel doped ZnO nanoparticles with enhanced low temperature ethanol sensing properties, U Godavarti, **V.D. Mote**, M Dasari, **Modern Electronic Materials**, 3(4), 179-185, **2017**
 10. Role of cobalt doping on the electrical conductivity of ZnO nanoparticles, U Godavarti, **V.D. Mote**, M Dasari, **Journal of Asian Ceramic Societies**, 5 (4), 391-396, **2017**.
 11. X-ray Analysis of α -Al₂O₃ Particles by Williamson–Hall Methods, S. Kumar, **V.D. Mote**, R Prakash, V Kumar, **Materials Focus**, 5 (6), 545-549, **2016**.
 12. Structural, morphological, physical and dielectric properties of Mn doped ZnO nanocrystals synthesized by sol–gel method, **V.D. Mote**, Y. Purushotham and B.N. Dole, **Materials & Design**, 96, 99-105, **2016**.
 13. Effect of surfactants on crystallographic and optical properties of ZnO nanoparticles, V. A. Varudkar, J.S. Dargad, **V.D. Mote**, **Asian Journal of Chemistry**, 28(12), 2778-2780, **2016**.
 14. Effect of doping on structural, physical, morphological and optical properties of Zn_{1-x}Mn_x O nano-particles, **V.D. Mote**, Y. Purushotham, J. S. Dargad, B.N. Dole, **Ceramics International**, 41 (10), 15153-15161, **2015**.
 15. Structural, optical and antibacterial properties of Yttrium doped ZnO nanoparticles, **V.D. Mote**, Y. Purushotham, R. S. Shinde, S. D. Salunke, B. N. Dole, **Cerâmica**, 61, 457-461, **2015**.

16. Crystallographic, Morphological and W-H Models Investigations on Mn substituted ZnO Nanocrystals, **V.D. Mote**, B.N. Dole, Iranian *Journal of Materials Science and Engineering*, 12, 75-88, **2015**.
17. Synthesis, Crystallographic and Magnetic Properties of Mn Doped ZnO Nanocrystals Via Solid State Reaction Technique, **V.D. Mote**, B.N. Dole, *Universal Journal of Physics and Application*, 8(1), 10-13, **2014**.
18. Effect of Mn doping concentration on structural, morphological and optical studies of ZnO nano-particles, **V.D. Mote**, J. S. Dargad, B.N. Dole, *Nanoscience and Nanoengineering*, 1(2), 116-122, **2013**.
19. Synthesis and Characterization of Mn Substituted ZnO Nanoparticles, **V.D. Mote**, S.S. Shah, B.N. Dole, Y. Purushotham, *International Journal of Nanoscience*, 12 (01), 1350004, **2013**.
20. Structural, morphological and optical properties of Mn doped ZnS nanocrystals, **V.D. Mote**, Y. Purushotham, B.N. Dole, *Cerâmica*, 59 (352), 614-619, **2013**.
21. The crystallographic and optical studies on cobalt doped CdS nanoparticles, V.R. Huse, **V.D. Mote**, B.N. Dole, *World Journal of Condensed Matter Physics*, 3(1), 46-46, **2013**.
22. Role of Pr in Eu-123 high T_c nanometer-sized superconductors, V.R. Huse, **V.D. Mote**, B.N. Dole, *Ceramics International*, 39 (7), 7317-7321, **2013**.
23. Doping effect of Cobalt on the structural and optical properties of ZnS nanocrystals, **V.D. Mote**, B.N. Dole, *International Journal of Chemistry*, 2 (2), 245-249, **2013**.
24. Effect of PEG on Structural and Magnetic Properties of Mn Doped ZnO Nanocrystals, **V.D. Mote**, B.N. Dole, *Advanced Materials Research*, 678, 234-238, **2013**.
25. Synthesis and crystallographic study of Co doped ZnO nano-sized powders by co-precipitation method, **V.D. Mote**, B.N. Dole, *Advanced Materials Research*, 678, 113-117, **2013**.
26. Crystallographic & Electrical Properties of Pr Substituted Gd-123 Nanometre Sized High Temperature Superconductors, V. R. Huse, **V.D. Mote**, Y. Purushotham, S. K. Dhar, S. S. Shah and B. N. Dole, *Advanced Materials Research*, 678, 172-176, **2013**.

27. Williamson-Hall analysis in estimation of lattice strain in nanometer-sized ZnO particles, **V.D. Mote**, Y. Purushotham, B.N. Dole, *Journal of Theoretical and Applied Physics*, 6 (1), 01-08, **2012**.
(Highly Accessed Paper & Citation Index)
28. Synthesis and Characterization of Cr Doped ZnO Nanocrystals, **V.D. Mote**, V.R. Huse, B.N. Dole, *World Journal of Condensed Matter Physics*, 2 (4), 208-211, **2012**.
29. Structural studies of Mn doped ZnO nanoparticles, B.N. Dole, **V.D. Mote**, V.R. Huse, Y. Purushotham, M.K. Lande, K.M. Jadhav, S.S. Shah, *Current Applied Physics*, 11 (3), 762–766, **2011**.
(Top 25 Hottest Article)
30. Structural and morphological studies on Mn substituted ZnO nanometer-sized crystals, **V.D. Mote**, Y. Purushotham, B.N. Dole, *Crystal Research and Technology*, 46 (7), 705-710, **2011**.
31. Synthesis and Structural Study on Co Substituted ZnO Nanoscale Crystals, **V.D. Mote**, V. R. Huse, B.N. Dole, *Asian Journal of Chemistry*, 23(12), 5595-5597, **2011**.
32. Role of Pr Substituted Eu-123 High Tc Cuprate Superconductors, V.R. Huse, **V.D. Mote**, S.S. Shah, B.N. Dole, *Asian Journal of Chemistry*, 23(12), 5592-5594, **2011**.
33. Synthesis and characterization of Pr substituted Gd-123 high-Tc Superconductors, V.R. Huse, **V.D. Mote**, Y. Purushotham, B.N. Dole, *Cerâmica*, 58, 381-387, **2012**.
34. The structural study of Pr substituted Eu-123 high Tc cuprate superconductors, V.R. Huse, **V.D. Mote**, K.I. Hasam, K. M. Jadhav, B.N. Dole, S.S.Shaha, *Journal of Physics*, 2(1), 32-35, **2011**.

▪ **Oral & Poster Presentations:**

[A] **International Conferences**

1. B. N. Dole, **V.D. Mote**, V. R. Huse, Y. Purushotham, M. K. Lande, K. M. Jadhav and S. S. Shah “Structural study of Mn substituted ZnO nanoparticles by sol-gel route” **Proc. Of International Conference on MEMS and Optoelectronics Technologies (ICMOT -2010)** 22-23, January, 2010, Narsapur, (A. P.).
2. **V.D. Mote**, V. R. Huse, Y. Purushottam and B. N. Dole, “Structural properties of Cobalt doped ZnO nanocrystals via Co-precipitation route”, **Indraprastha international Conclave on Nano Science and Technology (IICNST-2010)**, November 16-17, 2010 Guru Gobind Singh Indraprastha University, New Delhi.
3. **V.D. Mote**, V. R. Huse, Y. Purushottam, and B. N. Dole, “Synthesis and Magnetic properties of Mn doped ZnO nano-particles”, **Indraprastha International Conclave on Nano Science and Technology (IICNST-2010)**, November 16-17, 2010 Guru Gobind Singh Indraprastha University, New Delhi.
4. **V.D. Mote**, V. R. Huse, S. K. Dhar, Y. Purushotham, S. S. Shah and B. N. Dole, “Synthesis and crystallographic study of Co doped ZnO nano-sized powders by co-precipitation method”, **International Conference on Nanoscience and Nanotechnology (ICNN-2011)**, July 6-8, 2011, Coimbatore Institute Of Technology, Coimbatore.
5. **V.D. Mote**, V. R. Huse, S. K. Dhar, Y. Purushotham, S. S. Shah and B. N. Dole, “Effect of PEG on structural and magnetic properties of Mn doped ZnO nanocrystals”, **International Conference on Nanoscience and Nanotechnology (ICNN-2011)**, July 6-8, 2011, Coimbatore Institute Of Technology, Coimbatore.
6. **V.D. Mote**, K. N. Rathod, B. N. Dole, “Structural and magnetic Property Studies on Mn doped ZnS nano-particles”, **International Conference on Nanoscience and Nanotechnolog “Aligarh Nano IV International 2014” (ICNN-2014)**, March 8-10, 2014, Aligarh Muslim University, Aligrah (U.P.), India.
7. **V.D. Mote**, K. N. Rathod, B. N. Dole, “X-ray Diffraction line Broadening Analysis of $Zn_{1-x}Co_xS$ Nano-particles by Williamson-Hall analysis”, **International Conference on Nanoscience and Nanotechnolog “Aligarh Nano**

IV International 2014” (ICNN-2014), March 8-10, 2014, Aligarh Muslim University, Aligrah (U.P.), India.

8. **V.D. Mote**, B. N. Dole, “Structural and magnetic Property Studies on Mn doped ZnS nano-particles”, **International Conference on Nanoscience and Nanotechnology “Aligarh Nano IV International 2014” (ICNN-2014), March 8-10, 2014, Aligarh Muslim University, Aligrah (U.P.), India.**
9. **V.D. Mote**, B. N. Dole “Effect of Cr on structural, morphological and electrical properties of ZnO nanoparticles by co-precipitation method” **In international conference on nanoscience and nanotechnology (ICONN-2017) organized by Department of Physics and Nanotechnology, SRM university, Chennai, India during August 09-11, 2017.**

[B] National Conferences

1. **V.D. Mote**, V.R. Huse, K. M. Jadhav, B. N. Dole and S. S. Shah “Synthesis and Structural properties of Mn doped ZnO nanoparticles by ceramic route”, **National Conference on Advancements in Nanoscience for Different Technologies (NCANDT-2010)**, February 10-11, 2010, Shrikrishna Mahavidyalaya, Gunjoti, Maharashtra.
2. **V.D. Mote**, V. R. Huse, Y. Purushotham & B. N. Dole, “Synthesis and structural study on Co substituted ZnO nanoscale crystals”, **National Conference on Recent Advance in Condensed Matter Physics (NCRACM-2011)**, March 14-45, 2011, Department of Physics, Aligarh Muslim University, Aligarh (U.P.)
3. **V.D. Mote**, V.R. Huse and B.N. Dole, “Structural and optical investigations of $Zn_{1-x}Co_xS$ nanometer-sized particles”, **National Conference on Recent Trends in Materials Science (NCR TMS-2011)**, Oct. 8-10, 2011, Department of Physics, Jaypee University of Information Technology, Wagnaghat, Solan (H.P.)

[C] Symposium

1. **V.D. Mote**, V. R. Huse, Y. Purushotham, K. M. Jadhav, B. N. Dole & S. S. Shah, “Effect of temperature on the structural properties of Mn substituted ZnO nanoparticles”, **55th DAE Solid State Physics Symposium (DAE-SSPS-2010)**, December 26-30, 2010 Manipal University Manipal, Karnataka, **ISBN: 81-8372-061-7.**

2. V. R. Huse, **V.D. Mote**, Y. Purushotham, K. M. Jadhav, B. N. Dole & S. S. Shah, “The crystallographic study of Pr substituted Eu-123 High Tc cuprate superconductors”, **55th DAE Solid State Physics Symposium (DAE-SSPS-2010)**, December 26-30, 2010 Manipal University Manipal, Karnataka, **ISBN: 81-8372-061-7**.
3. **V.D. Mote**, V.R. Huse, Y. Purushotham, S.S. Shah & B.N. Dole, Synthesis and **Characterization** of Mn doped ZnS nanometer – sized particles, **56th DAE Solid State Physics Symposium (DAE-SSPS-2011)**, December 19-23, 2011 SRM University, Kattankulathur (Tamilnadu).

▪ Professional Activities

1. Life Member of **Materials Research Society** of India
2. Reviewer of research proposals submitted to “**Mural Research Funding (Individual Centric) scheme**” of Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India.
3. Acted as a Reviewer of **District Level INSPIRE Awards 2014-15**, Organized by DST, New Delhi, Place: Vishweshwarayya Polytechnic, Almala, Tq: Ausa, Dist: Latur (MS), India, During September 14-16, 2015.
4. Reviewer of International of Journal of "**RSC Advances**".
5. Reviewer of International of Journal of "**International Nano Letters**".
6. Reviewer of International of Journal of “**World Journal of Condensed Matter Physics**”.
7. Reviewer of International of Journal of “**Inorganic and organo-metallic Polymers and Materials**”.
8. Reviewer of International of Journal of “**Sky Journal of Educational Research (SJER)**”
9. Reviewer of International of Journal of “**Chemistry International**”.
10. Reviewer, technical papers of **3rd Global Conference on Materials Science and Engineering (CMSE-014)** Shanghai, China.

11. Reviewer, technical papers of **4th Global Conference on Materials Science and Engineering (CMSE 2015)**, Macau, China
12. Reviewer, technical papers of **Global Conference on Polymer and Composite Materials (PCM 2015)**, Beijing, China.

▪ **Participation in National Conference / Workshops**

1. National Conference on Recent Trend in Material Science (NCRTM - 2009), February 10-11, 2009, DAV College Amritsar.
2. Science Academies Lecture Workshop on Probing Electronic states in Molecules and Molecular Materials organized Department of chemistry, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad and Three Academies of Sciences, India October 21-25, 2010.
3. National Workshop on Nanotechnology and Intellectual property Rights and Patents in Science and Technology from Nanotechnology Perspectives, organized Department of Nanotechnology, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad, February 16-17th, 2012.
4. One Day Workshop on Revised Curriculum in Physics/ Electronics (UG) organized by Department of Physics, Gramin Mahavidyalaya, Vasantnagar, Tq. Mukhed, Dist. Nanded during 20th September 2013.
5. National Seminar on Role of Life Forms in Controlling Pollution organized by Department of Botany, Dayanand Science College, Latur (M.S.) during August 8-9, 2014.
6. One day State Level Seminar on Academic Performance Indicator (API) organized by Shahid Bhagatsingh Mahavidyalaya, Killari during 23rd August 2014.
7. One day National conference on Edu-2020 organized by Shivaji Mahavidyalay, Renapur and Zilla Parishad, Latur during 28th August 2015.
8. Participated in the International Conference on Mathematical Analysis and its Applications (ICMAA-2017) during 09-11 March, 2017 at Dayanand Science College, Latur, Maharashtra, India.

9. Participated in one day seminar “Energy Management” dated: 11 April 2018 at Dayanand Science College, Latur, Maharashtra, India.
10. Participated in one day workshop on B. Sc third year syllabus structure (CBSC Pattern) in Physics dated 25 July 2018 at Bahirji Smarak Mahavidyalaya, Basmathnagar, Dist.: Hingoli, Maharashtra, India.
11. Participated in one day national seminar on “Intellectual Property Rights (IPR)” dated 22 September 2018 at Dayanand Science College, Latur, Maharashtra, India.
12. Participated in one day seminar on “Watchal- Santulit, Samard Jivan” dated 2 October 2018 at Dayanand Educational Society, Latur, and Maharashtra, India.
13. Participated as an organizing committee member in one day workshop on “Skill Enhancement Course (SEC) CBCS in Physics “dated 6th August 2018 at Dayanand Science College, Latur, Maharashtra, India.
14. Participated in one day workshop on “Intellectual Property Rights (IPR) Awareness for Teachers” dated 16.02.2019 at Rajarshi Shahu Mahavidyalaya, Latur.
15. Participation in online lecture entitled “Introduction to solar energy and its research prospects” organized by Department of Physics, Dr. B. A. University, Agra in 11th May 2020.
16. National webinar entitled “Towards Excellence in higher education in India in the 21st century: Challenges and Opportunities” organized by Guru Angad Dev teaching learning centre SGTB Khalsa College, University of Delhi under the PMMM, national mission on teachers and teaching of MHRD on 1st May, 2020.
17. National webinar on “CAS promotion-issues and E-content development” from May 01-02, 2020.
18. National webinar entitled “e-Content development methodology: four quadrant model. OERs and copyright issues” organized by Guru Angad Dev teaching learning centre SGTB Khalsa College, University of Delhi under the PMMM, national mission on teachers and teaching of MHRD on 15th May, 2020.
19. National webinar entitled “Women in higher education: issues and challenges during corona pandemic ” organized by Guru Angad Dev teaching learning

centre SGTB Khalsa College, University of Delhi under the PMMM, national mission on teachers and teaching of MHRD on 15th May, 2020.

20. Participation in online lecture entitled “The wondrous world of Nanomaterials” jointly organized by Department of Physics and Chemistry, Dr. B. A. University, Agra on 15th May 2020.
21. One day University level online workshop on “revised curriculum (CBSC) of B. Sc second year- physics” organized by department of Physics, Yeshwant Mahavidyalaya, Nanded on 27th January 2021.
22. One day online webinar on “Revised Accreditation framework: understanding and challenges ” organized by V. P. and R. P. T. P. Science College, Vallabh Vidyanagar, Gujarat on 30th January 2021.

▪ Teaching

At Dayanand Science College, Latur (2016 onwards)

Post Graduate:

- Classical Mechanics, Quantum Mechanics, Electrodynamics, Electronics Instrumentation, Mathematical Physics, Condensed Matter Physics, Materials Science

At Dayanand Science College, Latur (2012 onwards)

Undergraduate:

- Mathematical Methods in Physics, Current Electricity and Magnetism, Waves, Oscillations and acoustic, Quantum Mechanics, Atomic and Molecular Physics, Nuclear Physics, Undergraduate supervised learning project.

▪ Administrative Work

1. Worked as **NAAC- IQAC Member (Criteria – V)**.
2. N.S.S **Programme Officer** (July 2013-June 2016).
3. Worked as **ACS-S.R.T.M. University, Nanded**.
4. Worked as **Member of Student Council Committee**
5. Worked as **Member of University Exam Committee** in Dayanand Science College, Latur.
6. Worked as **Internal & External Examiner** of B.Sc (Physics) Practical Examination.

7. Worked as **Member of Research and Development Committee** in Dayanand Science College, Latur.
8. Worked as Member of **Research and Development Committee** at Dayanand Science College, Latur (2015-till date).
9. Worked as Member of **Placement Cell** at Dayanand Science College, Latur (2016-till date).
10. Worked as **Mentor of SWAYAM** at Dayanand Science College, Latur (2018-till date).
11. Worked as **“Paper Setter for UG and PG Examination”** Rajarshi Shahu Mahavidyalaya, Latur.
12. Worked as **“Paper Setter for PG Examination”** S. R. T. M. University, Nanded.

▪ **Other**

1. Completed two years in **NSS as a Volenteer from July 2006 – April 2008, PG Unit, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.**
2. Participation in the **“State Level N.S.S. Camp”** conducted by N.S.S., P. G. Unit, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad during 16 **February 16 – 22, 2008**, University Campus.
3. Participation in the Workshop on **“Disaster Management”** conducted by N.S.S., PG Unit, Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
4. Participation in the **“FIRST-AID & DISASTER MANAGEMENT”** Training conducted by Dayanand College, Latur held on 27.12. 2014.