

CURRICULUM VITAE

PERSONAL INFORMATION

Name : **Dr. Dipak Ashok Zope**
Name of Father : **Mr. Ashok Namdeo Zope**
Name of Mother : **Mrs. Mandakini A. Zope**
Marital Status : **Unmarried**
Date of Birth : **14th August 1994**
Caste & Sub-Caste : **Kunbi (Lewa Kunbi)**
Category : **OBC**
Blood group : **A⁺Ve**
Nationality : **Indian**
Languages Known : **English, Hindi and Marathi.**
Correspondence Address : **Dr. Dipak Ashok Zope**
At/Po - Shemba (Bk), Near Radhakrishna Bank
Tq.- Nandura, Dist. -Buldhana, Pin Code: 443103
Email ID : **dipakzope3@gmail.com**
Mobile No. : **9420699565**



EDUCATION QUALIFICATION

| Exam | Subject/Stream | College | Year of Passing | Board/University | % | Class |
|--------|---|--|-----------------|--|---------|-------|
| S.S.C. | Science, Social Science & Mathematics | Krushni Vidyalaya Shemba Bk. | 2010 | Amravati | 55.60 % | II |
| H.S.C. | Physics, Chemistry, Math & Biology | Priyadarshani Junior College Motala | 2012 | Amravati | 42.50 % | II |
| B.Sc. | Physics, Chemistry & Mathematics | Vidnyan Mahavidyalaya Malkapur | 2015 | Sant Gadge Baba Amravati University, Amravati | 66.51 % | I |
| M.Sc. | Physics (Condensed Matter Physics) | Shri. Shivaji Science College Akola | 2017 | Sant Gadge Baba Amravati University, Amravati | 75.00 % | I |
| B.Ed | Physics, Mathematics | Mahatma Gandhi Adhyapak Mahavidyalaya Buldhana | 2019 | Sant Gadge Baba Amravati University, Amravati | 89.60 % | I |
| Ph. D | Topic:- Study of Selenium For Various Properties & its Characterization With Different Dopant For Photovoltaic Applications. | | 2023 | Guide:- Dr. Sandhya Nitin, Department of Physics, Shri. J. J. T. U RJS Mumbai | | |
| MH-SET | Physics | Savitribai Phule Pune University | 2025 | Savitribai Phule Pune University | 76.66 % | I |

ABOUT MY SELF

I am a dedicated and goal-oriented individual who treats every task as a challenge and an opportunity to grow. My persistence, hard work, and positive attitude consistently drive me toward success. I thrive in team environments, where collaboration allows the exchange of ideas and knowledge to achieve collective excellence. I strongly believe in continuous learning and self-improvement. One of my unique interests is facing interviews, as I consider them a platform to test my abilities, gain new perspectives, and grow both personally and professionally.

TECHNICAL RESEARCH PROFILE

- ❖ **Ph.D in Physics** Shri. Jagdishprasad Jhabarmal Tibrewala university, Jhunjhunu, Rajasthan 333010. Mumbai 06-02-2023
- ❖ **Expertise in** Nanomaterials, Photovoltaic, Characterization Technique
- ❖ **Skilled in** XRD, SEM, UV Visible Spectroscopy, Data Analysis, FTIR.

Ph.D/M.Sc PROJECT PROFILE

❖ **Doctor of Philosophy (Ph.D)**

This research focuses on the study of selenium and its various physical properties, especially when combined with different dopants, for potential use in photovoltaic applications. The aim is to enhance the efficiency and performance of solar cells by modifying selenium with dissimilar elements and analyzing the resulting changes in its structural, optical, and electrical characteristics. The work involves detailed material characterization using advanced techniques to understand the effects of doping on selenium.

A Thesis Submitted To The Shri. Jagdishprasad Jhabarmal Tibrewala university, Jhunjhunu, Rajasthan 333010. Mumbai (MH)

This thesis is submitted by **Mr. Dipak Ashok Zope (Registration No.: 231218039)** for the award of the degree of Doctor of Philosophy in Physics under the supervision of **Dr. Sandhya Nitin, Head of Department of physics and Research Director at Shri J. J. T. University, Jhunjhunu, Rajasthan, India.** The research work was carried out and completed in the year 2023.

❖ **Master of Science (M.Sc)**

During the final semester of my Postgraduate studies, I undertook a project titled **“FTIR Study of Sodium Phosphate Glasses Doped with Zinc Oxide (ZnO)”**, under the valuable guidance of Prof. R. V. Salodkar, **Head of the Department of Physics, Shri Shivaji Arts, Commerce & Science College, Akola (2017).** The project involved the synthesis of phosphate-based glass samples and their characterization using **Fourier Transform Infrared (FTIR) Spectroscopy** to study structural changes due to ZnO doping. This study provided insights into bonding characteristics and modifications in glass network structure upon metal oxide incorporation.

BOOK PUBLISHED

Foundation of Physics: Principles, Theories and Applications (Dr Dipak Ashok Zope, Pagify Publication, 1st Ed., 2025, ISBN 978-81-991029-3-4) is a clear and comprehensive undergraduate physics textbook. It thoughtfully covers foundational topics—ranging from classical mechanics to quantum theory while blending theoretical explanations with practical examples, applications,

and problem-solving strategies. Ideal for both students and educators, it supports deep conceptual understanding and analytical thinking.

RESEARCH PUBLICATION (JOURNALS) PAPER.

INTERNATIONAL JOURNAL

- 1. A Research Paper Title “Cosmic Microwave Background Radiation: Insights Into The Early Universe” Was Published In The ‘Advance Research Educational Society’ (Ares) (Issn: 2349-2819), Volume X, Issue Xii, In Dec-2023. The International Journal Of Advance Research In Engineering Technology And Science With An Impact Factor Of 7.10. (Ares-2023).**
- 2. A Research Paper Title “Synthesis Of Optical Characterization Of Quantum Dot Semiconductor Nanoparticles” Was Published In The ‘International Journal Education And Science Research Review’ (Ijesrr) (Issn: 2348-6457), Volume Xii, Issue Ii, In March-2025. The Journal Is Peered Review, Open Access, Fully Refereed International Journal With An Impact Factor Of 7.02. (Ijesrr-2025)**
- 3. A Research Paper Title “Graphene Oxide Application In Electrical Devices” Was Published In The ‘Indo Asian Research Reporter’ (Iarr) (Issn: 2454-3306), Volume I, Issue Xiv, In 2025. The Journal Is Ugc Approved, Peered Review With An Impact Factor Of 6.20. (Iarr-2025)**
- 4. A Research Paper Title “Synthesis Of Metal Nanoparticles And Their Application” Was Published In The ‘Gurukul International Multidisciplinary Research Journal’ (Gimri) (Issn : 2394-8426), Volume 8, Issue 5, In 2025. The Journal Is Peered Review With An Impact Factor Of 8.357. (Gimri-2025)**
- 5. Journal Of Advance And Scholarly Researchs In Allied Education Vol.16, May-2019, Issn 2230-7540. On The Topic A Study Of The Different Properties And Characterization Of Selenium For Photo-Voltaic Application With Variable. Impact Factor : 3.46**
- 6. Selenium Nanoparticles For Photovoltaic Applications: Synthesis & Characterization. Received For Publication In International Journal Of Renewable Energy Exchange, Issn 2321-1067, Special Volume-9 Issue-7, 2021.**
- 7. Study Of Selenium For Photovoltaic Applications & Characterization With Dissimilar Dopant. Received For Publication In International Journal Of Renewable Energy Exchange, Issn 2321-1067, Special Volume-9 Issue-8, 2021.**
- 8. Study Of Selenium For Various Properties And Its Characterization With Different Dopant**

For Photovoltaic Received For Publication In International Journal Of Advance And Innovative Research, Issn No. 2394-7780, Volume 8. Issue 3 (Iv) July – Sept 2021 Part 2.

9. *“International Journal Of Applied Research” Organized By Recent Advance And Opportunities In Biological Sciences (Raobs-2017) On The Topic “Biophysical Interaction Of Scalar Energy On Cellular Mechanism Of Life”, Held At Late Pundalikrao Gawali Arts & Science Mahavidyalaya, Shirpur (Jain). Tq. Malegaon Dist. Washim, (Issn Online 2394-5869) On 17 March, 2017*
10. *“International Journal Of Advance And Innovative Research” By 2nd International Conference On Science, Technology And Innovation Organized By Indian Academician And Research Association On The Topic “Electrical And Optical Properties Of Sol– Gel Synthesis Of Nanostructured Pd-Doped SnO₂ Thin Films”, Volume 9, With (Issn No. 2394-7780). Issue 1 (Iv) January- March 2022.*

CONFERENCE PRESENTATIONS

INTERNATIONAL CONFERENCES

- *One Day Interdisciplinary International Conference On “Introspection, Prognosis And Strategy For Global Water Resources” Sponsored By Punyashlok Ahilyadevi Holkar Solapur University, Solapur & Solapur Bhoogol Shilshak Sangh, Solapur, (Mh) Paper Entitled “Bio Physical Interaction Of Scalar Energy On Aquatic Ecosystem.” On 7th Jan 2020.(Ipasgwr-2020)*
- *“International Virtual Conference”, (Afm-2020) At Kalinga Institute Of Industrial Technology (KiiT) Deemed To Be University, Bhubaneswar, Odisha, India*
- *“International E-Conference On Recent Advances In Chemical, Physical And Biological Science” Organized By Department Of Chemistry, Nabira Mahavidyalaya, Katol And Association Of Chemistry Teachers (Act), (Tifr) Mumbai. (Afm-2020)*
- *International Conference On Multifunctional Advanced Materials (Icmam-2018) Organized By Kamla Nehru Mahavidyalaya, Nagpur And Dharampeth M. P. Deo Memorial Science College, Nagpur He Delivered Invited Poster Paper Entitled Second Prize In Poster Paper Presentation. (Icmam-2018)*
- *Society For Technologically Advanced Materials Of India (Stami) Organized International Web Conference On Science, Engineering & Technology (Iwcset- 2020).*
- *“Reimagining Future Librarianship: Roles And Competencies” Organized By Department Of Library And Information Science, Shri. Jagdishprasad Jhabarmal Tibrewala University,*

Vidyanagari, Chudela, Jhunjhunu, Rajasthan Held On 29th & 30th 2022.(Rfl-2022)

- *“Recent Trends In Science & Technology Sustainable Development Through Scientific Approach” (Icrts-2017) Organized By Shri Shivaji Education Society Amravati’s Science College, Congress Nagar, Nagpur-440012, (M.S) India. (Icrts-2017)*

NATIONAL CONFERNCES

- A.** *Recent Trends In Life Science For Sustainable Development (Rtlssd-2019) On The Topic “Effect Of Scallar Energy On The Biochemical Content Of Aquatic Fish Labeo Rohita”. Held At Dept. Of Zoology And Iqac, Sant Gadge Baba Amravati University, Amravati (Ms) During 22nd-23rd January 2019.*
- B.** *Emerging Trends In Science (2019) On The Topic “The Scalar Wave Energy Healing And Regeneration”, Held At Vidyabharati Mahavidyalaya, Amravati 1st-2nd February 2019.*
- C.** *Multidisciplinary Research In Science And Technology For Healthy Lifestyle Management (Ncmrst-2020) On The Topic “Ftir Study Of Sodium Phosphate Glass Doped With Zno.” Held At Shri. R. L. T. College Of Science, Akola. 24th January 2020.*
- D.** *Gondwana University, Gadchiroli, Ms, India Administration Of Educational Institution Organized By Chintamani College Of Commerce Dist. Chadrapur, Ms, India.*
- E.** *Shri. Shivaji Science And Arts College, Chikhli, Dist- Buldana Organized By National E-Conference On “Role Of Nanotechnology For Sustainable Future” In Association With Aucta, Amravati At 31 Aug 2021.*

WORKSHOPS

- 1.** *Attended A One-Week Online Research Workshop On "Writing A Review Paper Using Ai Tools", Organized By Nuhianwali Education Society, Sirsa (Haryana), India, From 10th To 15th February 2025. Successfully Completed The Workshop Under The Guidance Of Dr. Kulwant S. Kookna (Resource Person), Aimed At Enhancing Research Writing Skills Using Ai-Assisted Techniques.*
- 2.** *Two Days State Level Workshop On E-Content Development. (Chandamal Tarachand Bora College, Shirur Dist. Pune Pin Code - 412210)*
- 3.** *Statistical Package For The Social Science(Spss) (Shri.Jagdish Prasad Jhabarmal Tibrewala University, Chudela Dist. Jhunjhunu. Rajasthan. Pin Code -333504).*
- 4.** *International Workshop On “Nanomaterials Synthesis Is Emerging Facet Of The World” At Late Pushpadevi Patil Arts And Science College Risod Dist. Washim (M.S).*
- 5.** *Work Shop On “Memdeley Refernce Manager” Organized By Nuhianwali Education Society.*

SEMINARS

1. *CHANGING PERSPECTIVES OF INLAND FISHERIES (CPIF-2018) AT YOGESHWARI MAHAVIDYALAYA, AMBAJOGAI*
2. *UNNAT BHARAT ABHIYAN, MODEL DEGREE COLLEGE, BULDHANA (443001), (M.S.)*
3. *E-CERTIFICATE COURSE ON RENEWABLE ENERGY THE DEMAND OF FUTURE ORGANIZED BY DEPARTMENT OF PHYSICS IN COLLABORATION WITH IQAC AT SHRI. R. L. T. COLLEGE OF SCIENCE, AKOLA.*
4. *SANT GADGE BABA AMRAVATI UNIVERSITY ORGANIZED BY ONE DAY PROGRAM ON CBCS-NEP EXECUTORS TRAINING PROGRAM AT JANATA KALA-VANIJYA MAHAVIDYALAYA MALKAPUR, DIST- BULDANA.*

TEACHING EXPERIENCE

1. **Assistant Professor, Department of Physics, Padm. Dr. V. B. Kolte College of Engineering, Malkapur(2024–Present)**
Teach Engineering Physics to Bachelor of Engineering students; design syllabi, set up labs, and adopt outcome-based education. Mentor projects, coordinate assessments, and offer academic counseling. Support departmental administration and faculty workshops, while engaging in research and improvements to boost learner engagement and uphold institutional quality.
2. **CHB Lecturer, Department of Physics, Vidnyan Mahavidyalaya, Malkapur, Dist. Buldhana (2018–Present)**
Teaching undergraduate physics courses on CHB basis since 2018. Involved in practical sessions, student guidance, and academic support. Contributed to departmental activities and continuous improvement in teaching methodologies.
3. **CHB Lecturer, Department of Physics, Shri Shivaji Arts, Commerce and Science College, Motala, Dist. Buldhana (2018–2019)**
Served as a CHB lecturer for one academic year, teaching undergraduate physics courses. Conducted theory and practical sessions, assisted in academic activities, and supported students in understanding core physics concepts effectively.
4. **Physics Faculty, PCMB Coaching Classes, Malkapur (2019–Present)**
Teaching Physics to 11th and 12th students with focus on board and competitive exam preparation.

OTHER TECHNICAL INFORMATION

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| ✓ OPERATING SYSTEMS | : WINDOWS 7 |
| ✓ TYPING ENGLISH 30 | : 78 % |
| ✓ TALLY 9.0 SPECIALIST | : A+ GRADE |
| ✓ MS – CIT | : 90 % |
| ✓ MICROSOFT OFFICE SPECIALIST | : OFFICE EXCEL 2007 |

AWARDS AND ACHIVEMENTS

- Qualified **MH-SET (Maharashtra State Eligibility Test) in Physical Science 2025** with First Rank In Maharashtra

DECLERATION

“I hereby declare that the information and data presented in this cumulative report are true, authentic, and based on my personal academic and professional performance during the stated period. This document has been prepared under proper guidance and reflects my sincere efforts and achievements. I affirm that no part of this record is false, misleading, or fabricated, and all supporting details have been provided wherever necessary.”

I understand that the submission of any false or incorrect information may result in disciplinary action as per the rules and regulations of the institution. I have maintained honesty and integrity in documenting my progress, and I take full responsibility for the content of this record.

This declaration is made in good faith and with a clear understanding of its implications.

Date:- / /

Place:- Shemba (BK)

TQ. Nandura

DIST. Buldana

(Dr. Dipak Ashok Zope)