

# CURRICULUM VITAE



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Date of Birth: 02/05/1994

## Educational Qualification:

Degree	University/ Board	College/ School	Subject	Year	Percentage
Ph.D.	University of Pune	SPPU, Pune	Physics		Pursuing
NET	CSIR-UGC JRF NET	CSIR UGC	Physics	2018	Qualified
B.Ed.	SNDT University Mumbai	Mahila Mahavidyalay Malegaon	Math/Sci.	2018	74.00
M.Sc.	University of Pune	RYK College Nashik	Physics	2016	66.00
B.Sc.	University of Pune	KRA College Deola (Nashik)	Physics	2014	84.84
HSC	Divisional Board	KRA College Deola (Nashik)	Eng, Mar, Math, Phy, Chem & Bio	2011	66.83
SSC	Divisional Board	Jijamata kanya Vidyalay Deola (Nashik)	Eng Mar Hin Math Sci & Soc. Sci	2009	84.46

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## Additional

1. Program Advisory committee member of V141 M. Sc. (Physics)
2. Life Member of RARE EARTHS ASSOCIATION OF INDIA

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## Authored eBook published by YCMOU

1. PHY134 Fundamentals of Materials Science
2. PHY116: Electronics Devices – Practical
3. PHY125: Physics-II – Practical

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## Conferences and Seminars:

1. Attained a short course on "Learn to Design your own Solar Home System". Organized by Energy Literacy Drive of the Energy Swaraj Foundation in association with Vidyavardhini's College of Engineering & Technology on dated June 30.2020.
2. One week Faculty Development Programme on Research Methodology Participation Certification organized by Amar seva mandal's Kamla Nehru Mahavidyalaya Sakkardara Square, Nagpur-440024, India 26<sup>th</sup> April to 1<sup>st</sup> may 2021.

3. Workshop on Ethical Conduct of Research dated 13 th Oct 2021 to 21th Oct 2021 organized by YCMOU, Nasik and School of Education, Central University of Haryana, Mahendergarh.
4. Two days “National Conference on Advance Trends in Material Science & Applications” 30th to 31th August, 2021.Organized by Department of Physics, (KTHM) College, Nashik-02.
5. ‘Virtual International Conference on Multifunctional Advanced Materials (VICMAM-2021)’ 9th and 10th August, 2021.Organized by Jnan Vikas Mandal’s Degree College, Airoli, Navi Mumbai.
6. One Week Workshop on “Investor Awareness Program on Securities Market dated 25th June 2021 to 1st July 2021 Organized by Nishitha Degree College, Nizamabad.
7. Two days national workshop on “Lasers- Characteristics-Applications and Fundamentals of Nuclear Physics” 21st June 2021 to 22nd June 2021 Organized by Department of Physics and IQAC, Nishitha Degree College, Nizamabad .
8. International Conference on “Smart Materials : Application to Devices (ICSMAD - 2021 dated 2nd may 2022 to 7th may 2022 Organized by Department of Physics and Department of Electronics, Amar Sewa Mandal’s Kamla Nehru Mahavidyalaya, Nagpur.
9. Participated in the Webinar on “DELNET: Resources and Services” in collaboration with YCMOU Nashik on 13-July-2022
10. International webinar on Breaking Barrier in science on 14th February 2023 Organized by kamala Nehru Mahavidyalaya, Nagpur
11. Two Days National Workshop on “Lasers-Characteristics-Applications and Fundamentals of Nuclear Physics” at NISHITHA DEGREE COLLEGE, NIZAMABAD held from 21st June 2021 to 22nd June 2021 Organized by Department of Physics and IQAC.
12. Two days “National Conference on Advance Trends in Material Science & Applications” Organized by Department of Physics & STRIDE Cell from 30th to 31th August, 2021.
13. International conference on “smart materials Application to Devices” Organized by kamala Nehru Mahavidyalaya, Nagpur 17-18 May 2021
14. 7 day National virtual workshop on “Ethical Conduct of Research” Organized by YCMOU, Nashik & central University of Haryana. 13th October to 21st October 2021
15. International Webinar on “Innovations & Technological Startups in the Present Crises of COVID Pandemic” Organized by Student Startups & Innovation Policy (SSIP) Cell, Saurashtra University, Rajkot held on the occasion of National Technology Day 11th may 2021
16. National Webinar on “Solar Based Green Energy Solution- An Immediate Future” Organized by Department of Physics on 14th April 2021.
17. National level one week faculty development programme on research methodology dated 26 April to 1st may 2021
18. Participated in International Webinar on ‘Breaking Barrier in Science’ on 14 February 2023, organized by Kamla Nehru Mahavidyalaya Sakkardara Square, Nagpur
19. Two day national seminar on “Microsoft System Center Configuration Management organized by Department of Computer Science & application held on 23-24 feb 2023

20. National Seminar on 'R Studio & Data analysis Through Excel' organized by CSSR & SRRM Degree & PG College, Kadapa, Andhra Pradesh held on 13-14 June 2023
21. National Seminar on 'National System center Configurational Management' organized by CSSR & SRRM Degree & PG College, Kadapa, Andhra Pradesh held on 21 – 22 June 2023
22. Participated in the AICTE Recognized Faculty Development Programme on Industrial Chemistry Conducted by Applied Science Department from 18/09/2023 to 22/09/2023 (One Week) at NITTTR, Chandigarh
23. Participated in One Day National Seminar-cum-Workshop on "The Art of Presentation" organised by the School of Education and Training, Maulana Azad National Urdu University, held on 22 June 2023.
24. participated in the International Women's Day Quiz competition Organized by SND POLYTECHNIC, YEOLA (NASHIK) Department Of Central Library
25. Actively participated in the Workshop on "NEP 2020: Framing of Course Structure and Implementation" organized by YCMOU Nashik on 25-Feb-2023 [Experts: Prof. B.N. Jagtap and Prof. Anand Mapuskar]
26. Participated and attended a National Science Day organized by School of Architecture, Science and Technology on 6th Mar 2023. [Topic: 'उपयुक्त विज्ञान आपल्या सर्वांसाठी आणि चॅटजीपीटी (ChatGPT), Speakers- Director and AST team]
27. Participated in the 'Let's Manage Me First' Programme organized by Savitribai Phule Adhyasana on the occasion of National Women's Day at Auditorium Hall on 08/03/2023
28. Participated in the International Women's Day Quiz competition Organized by SND POLYTECHNIC, YEOLA (NASHIK) Department Of Central Library held on 8 March 2023
29. National Seminar on 'National System center Configurational Management' organized by CSSR & SRRM Degree & PG College, Kadapa, Andhra Pradesh held on 21 – 22 June 2023
30. Attained the AICTE Recognized Faculty Development Programme on Industrial Chemistry Conducted by Applied Science Department from 18/09/2023 to 22/09/2023 (One Week) at NITTTR, Chandigarh
31. Attained in One Day National Seminar-cum-Workshop on "The Art of Presentation" organised by the School of Education and Training, Maulana Azad National Urdu University, held on 22 July 2023.
32. Attained in Prof. Ram Takawale Reserch center's Seven days Faculty Development Programme on 'Educational Reserch' held on 25th – 31st October, 2023.
33. Attained online national seminar on Writing Techniques Of Research Paper organized by IQAC & dept. of public administration smt. sushiladevi deshmukh senior college, latur held on 3rd November 2023.
34. Attained the AICTE Recognized Faculty Development Programme on Materials Characterization Techniques by Applied Science Department from 04- 08 December 2023 (One Week) at NITTTR, Chandigarh

35. Presented 'ANCIENT INDIAN METALLURGY' Research Paper in prof. ram takawale research center 56th annual national conference of iate "indian knowlwdge system : teachers, teaching and learning on dated 10.02.2024 to 12.02.2024 at YCMOU, Nashik
36. Attained the two week Faculty Development Programme on Design Develop And Deliver Online / Blended Learning Courses organized by School Of Online Learning, on dated 29.04.2024 to 03.05.2024 at YCMOU, Nashik
37. Attained one day workshop on Workshop On Video Script Writing organized by School Of Online Learning, on dated 21.05.2024 at YCMOU, Nashik
38. Attained Online National One Week Faculty Development Programme on Research Methodology, FDP-2024 organized by Kamla Nehru Mahavidyalaya, Nagpur from 22nd July to 27th July 2024.
39. Attained online FDP one week faculty development programme on "New Techniques Of Assesments" organized by prof. ram takawale research center on dated 22.07.2024 to 27.07.2024 at YCMOU, Nashik
40. Attained training program, "National Intellectual Property Awareness Mission (NIPAM)" at M.G.V's Maharaja Sayajirao Gaikwad Arts, Science and Commerce College, Malegaon on dated 02nd august 2024.
41. Attained Training program under National Intellectual Property Awareness Mission At Yashwantrao Chavan Maharashtra Open University,Nashik On December 19, 2024
42. Attained 5th International e-Conference on Thin-film Deposition, Characterization and Applications (IeC-TDCA-2024) held on 5-6 Dec. 2024.
43. Attained online FDP Two week faculty development programme on Refresher Course in Engineering Physics 19th November 2024 to 2nd December 2024 at NITTTR, Chandigarh
44. Attained online one week faculty development programme on Solar Plant Design and Installation from 6th January 2025 to 10th January 2025 at NITTTR, Bhopal
45. Attained and presented research paper "An International Conference on Advancement and Emerging Trends in Sciences" (ICAETS- 2025) on dated 8th to 10th January, 2025 organized by Rayat Shikshan Sanstha's Dahiwadi College Dahiwadi, Tal-Man, Dist•Satara, Maharashtra.
46. Attained online one week faculty development programme on Latest Advances in Renewable Energy from 27<sup>th</sup> January 2025 to 31<sup>st</sup> January 2025 at NITTTR, Bhopal
47. Attained online one week faculty development programme on Latest Advances in Renewable Energy from 27<sup>th</sup> January 2025 to 31<sup>st</sup> January 2025 at NITTTR, Bhopal
48. Attained a National Level Webinar on " Fundamentals of Electrochemistry ". held on Wednesday, 12th February 2025 Organized by Department of Chemistry Of M.G.V's Arts, Commerce & Science College Malegaon City.
49. Attained Five Days online FDP on "Recent Advanced Functional Materials and Sustainable Development", from 12-02-2025 to 17-02-2025 organizes by Department Of Physics Of Prathyusha Engineering College, (An Autonomolß Institution) Poonamallee-Thiruvallur High Road, Thiruvallur-602025, Tamilnadu , India

50. Attained online course "Designing Learner-centric MOOC" by Prof. Sameer Sahasrabudhe, Professor of Practice. IIT Gandhi Nagar conducted from 3rd Jan to 31st Mar, 2025 for MahaDnyanDeep Organized by YCMOU, Nashik
51. Attained online Special Lecture on "Digital Space and Gender" organized by Dr. Babasaheb Ambedkar Chair, Yashwantrao Chavan Maharashtra Open University, and Nashik on the Occasion of International Women's Day on 8th March, 2025.
52. Attained '3rd Online Faculty Induction Programme' and obtained A Grade organized by the UGC-Malaviya Mission Teacher Training Center (MMTTC) of Central University of Haryana, Mahendergarh (India) from 12th June 2025 to 10th July, 2025.
53. Attained a one-day workshop on "Reading for Researchers, " organized by the Prof. Ram takawale Research & Development Center at Yashwantrao Chavan Maharashtra open University, Nashik, held on 4th July 2025.
54. Attained National webinar on "AI in Libraries: A Catalyst for Innovation, Discovery and Engagement" held on July 16, 2025 organized by the Indian Library Association, New Delhi.
55. Attained 10th International Conference on Human Values in Higher Education (ICHVHE 2025) held on 19th to 21st December, 2025
56. Attained IP Awareness/Training Program under National Intellectual Property Awareness Mission On January 19, 2026 Organized By Intellectual Property Office, India

#### **PATENTS:**

1. Innovative Organic Nanomaterials For High-Efficiency Solar Cells  
Patent No. 202321044897 (2023)
2. Durable And High-Performance Lithium Ion Batteries With Nanostructured Cathode Materials  
Patent No. 202341068059 (2023)
3. Device for Digital Education  
Patent No. 435292-001(2024)

#### **List of Publications: Research Papers**

SN	Title of Research Paper	Name of Journal	Page No., Volume No., Issue No., Year of Publications and Impact factor, if any	ISSN No.	No. of Coauthor
1	Study the Luminescence Properties of Ce Doped Ba <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> Phosphor	Scopus Listed-Journal for Basic Sciences	JBS, Vol 24, Issue 5, May 2024	1006-8341	4
2	Study of Luminescence Properties of Eu Doped Ba <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> Phosphor	UGC Care Listed- Juni Khyat-Maru Bhumi Shodh Sansthan	Vol. 13 Issue 10 No. 4 Oct 2023	2278-4632	2
3	Science for Society and Culture Research	Peer Reviewed Journal- Sanshodhak Etihacharya V.K.Rajvade sanshodhak mandal, Dhule	Impact Factor 9.154	2319-9318	1

SN	Title of Research Paper	Name of Journal	Page No., Volume No., Issue No., Year of Publications and Impact factor, if any	ISSN No.	No. of Coauthor
4	Phule, Shahu Ambedkar aani shtri	Peer Reviewed Journal- Sanshodhak Etihacharya V.K.Rajvade sanshodhak mandal, Dhule	Impact Factor 9.154	2319-9318	1
5	Biodiversity Conservation	Peer Reviewed Journal- Chronicle of Humanities and Cultural studies	Pg No. 76, Vol.10, Issue 1, Feb 2024, Impact Fac.:4.197	2454-5503	1
6	Study of luminescence properties of Ce-Eu doped Ba <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> phosphor	ICAETS- 2025	An International Conference on Advancement and Emerging Trends in Sciences (ICAETS-2025)	Communicated	3
7	Rare earth-doped phosphors and their emerging applications: A Comprehensive Review	Scopus	Journal of the Indian Chemical Society	Communicated	3
8	Biogenic Synthesis of Rare-Earth-Doped Titanium Dioxide Nanoparticles: Sustainable Antimicrobial Agents for Green Pharmaceutical Applications	Scopus	Journal of Crystal Growth	Communicated	3
9	Efficient Ce and Eu Activated Ba <sub>2</sub> Al <sub>2</sub> SiO <sub>7</sub> Phosphors: Structural, Optical, and Luminescence Properties for Potential Lighting Application	Scopus	Journal of Engineering in Industrial Research	Communicated	3
10	Structural, Morphological, and Optical Properties of Nanoparticles Synthesized via Co-precipitation for Optoelectronic Applications	Scopus	IET Optoelectronics	Communicated	3

### 1. Book /Chapter

SN	Title of Book/Chapter	Name of Book/Journal	Details	ISSN NO	No. of Coauthor
1.	Book Edited PHY112: Classical Mechanics	Classical Mechanics	V141: M.Sc. Physics I Semester	Publication No: 2497	2
2.	V141:PHY116: Electronics Devices - Practical	PHY116: Electronics Devices - Practical	V141: M.Sc. Physics I Semester	Publication No: 2571	2
3.	V141: PHY125: Physics-II - Practical	PHY125: Physics-II - Practical	V141: M.Sc. Physics II Semester	Publication No: 2609	1

4.	V141: PHY134: Fundamentals of Materials Science V153: M.Sc. Physics {As per NEP 2020}  PHY515: Fundamentals of Materials Science	V141: PHY134: Fundamentals of Materials Science  V153: M.Sc. Physics{As per NEP 2020} PHY515: Fundamentals of Materials Scienc	V141: M.Sc. Physics III Semester  V153: M.Sc. Physics {As per NEP 2020} II Semester	Publication No: 2874	1
5.	Nanomaterials	Rushi Publication	Jan2024	978-81- 961555-9-9	1
6.	Shtrivadi chalvali aani etihaslekhan	Bhartiya shtriyanchi vatchal	Vol. 1 Issue 1 No. April 2024 Sr. No. 20, Pg. NO.121	978-93- 95494-67-0	2
7.	Swatrantrottar Bhartatil Mahilanchi Stiti	Bhartiya shtriyancha Darja	Vol. 1 Issue 1 No. March 2024 Sr. No. 25, Pg. NO.174		2

### **Teaching experience**

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Three years Teaching Experience at Mahatma Gandhi Vidyamandir's Maharaja Sayajirao Gaikwad, Malegaon as a assistant professor (CHB) - physics.  
Working as a Assistant Professor (Academic Co-ordinator) at Yashvantrao Chavan Maharashtra Open University from January 2020,

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