

CURRICULUM VITAE



Name: Gaikwad Avinash Ramkishan
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College: Vivekanand College, Kolhapur (An Empowered Autonomous Institute)

Qualification: M.Sc. (Physics), B. Ed, B.J., SET, GATE, Ph. D (Pursuing)

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Academic Profile

- **Pursuing Ph.D. in Physics**, From SRTMUN University Nanded, Maharashtra.
- Qualified in the **State Eligibility Test (SET)** examination held for eligibility of Assistant professor in College of Maharashtra State.
- Qualified in the **GATE** with Gate Score: 410 (IIT Madras) **National** level Examination in 2019.
- **M.Sc. (Physics)** from the University of SRTMUN in 2016 with First Class (**69.56%**) (NES Science College Nanded).
- **B.Sc. (Physics, Chemistry, Electronics.)** from the University of SRTMUN in 2014 with First Class. (**76.87%**) (Shree Shivaji College, Kandhar)
- **B. Ed (Science, Math)** in 2020 with First Class (**75.95%**) From S.R.T. Adhyapak Vidyalaya, Kandhar.

MOOC- NPTEL/SWAYAM/IAPT RC-08 Certification Courses

- **“Introduction to Python Programming”** course organised by IAPT RC-08 in collaboration with the Department of Physics and Mathematics, Rajaram College, Kolhapur, held from 15 December 2025 to 8 January 2026.
- **‘Nuclear and Particle Physics’** Indian Institute of technology (IIT) **Guwahati**. NPTEL AICTE 25 July 2022 to 14 Oct. 2022.
- **‘Classical Mechanics – I’** Indian institute of technology (IIT) **Kanpur**. 26 Jan. 2021- 25 April 2021.

Orientation/Refresher/FDP Courses

- UGC Sponsored **Refresher Course in Physics** Organised by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, From August 04,2025 to August 16,2025 and Obtained **Grade A⁺**.
- **FDP** conducted by Maharashtra State Faculty Development Academy (**MSFDA**) and **IIT Bombay** on *‘Experimental learning for students using case- study approach’* at Shivaji University Kolhapur, from 07 August 2024 to 20 December 2024.
- UGC Sponsored GURU DAKSHTA 23rd **Faculty Induction programme (FIP)** Organised by Ranchi University, Ranchi, From July 16,2024 to August 12,2024 and Obtained **Grade A**.
- **‘NEP 2020 Orientation and sensitization programme’** Organised by **IISER Pune**, form April 18, 2024 to April 26, 2024.

Teaching Experience

- Vivekanand College, Kolhapur (*An Empowered Autonomous Institute*) Working as a **Assistant Professor** (Full time permanent faculty) **14 March 2024 to Till Date.**
- Yeshwant Mahavidhyalaya, Nanded (Assistant Professor On CHB) From **Jun-2017 to May-2023.**

Honours and Awards

- Recipient of Chhatrapati Shahu Maharaj **National Research Fellowship-2021** from SARTHI, an Autonomous Institute of Govt. of Maharashtra w.e.f 01/01/2022.
- Selection as **Junior Research Fellow for the ISRO RESPOND – Project** entitled - ‘Theoretical and Observation Study of Polycyclic Aromatic Hydrocarbons (PAHs) at different temperature.’(Jan.2020)

Book Published

- **“Practical Course in Physics”** Book published in Nirali Publication in Nov.-2024 (N2204- Practical Course in Physic ISBN Number 978-93-6109-446-0 Dr. Ganesh J. Navathe, Dr. Sanjay S. Latthe, Dr. Sumayya I. Inamdar, **Avinash R. Gaikwad**)

Intellectual Property Rights (IPR)-04

Designs Registered-03

- **Mr. Avinash R. Gaikwad**, Dr. Ravi S. Kawale, Dr. Santosh S. Jadhav, Dr. Shyam. K. Gore, Prof. Rajaram S. Mane, **“TOXIC GAS MONITORING WEARABLE DEVICE”** (Indian Design Registration No. 487672-001 Filed on 19 Jan. 2026 and Published on date of 05 March 2026).
- Dr. Girish S. Gund, Dr. Ganesh J. Navathe, Dr. Sumayya S. Inamdar, Dr. Sarita S. Kumbhar, **Mr. Avinash R. Gaikwad**, Mr. Rushiraj S. Supale **“BATTERY PACK TEMPERATURE MEASURING DEVICE”** (Indian Design Registration No. 486472-001 Filed on 07 Jan. 2026 and Published on date of 23 April 2026).
- Mr. Amol Rajendrasing Pardeshi, **Mr. Avinash Ramkishan Gaikwad**, **“ENERGY STORAGE DEVICE”** (Indian Design Registration No. 495629-001 Filed on 21 March. 2026 and Published on date of 02 July 2026)

Copyrights Registered-01

- **Mr. Avinash R. Gaikwad**, **“KANNANPASUN VISWAPARYANT-BHAUTIKSHASTRACHI ROMANCHAK SAFAR”** (Book copyright Diary No. LD-37491/2026-CO, Request No. 294097, Filed on 10 August. 2026)

Research Paper Published-02

- **Avinash R. Gaikwad**, Sumayya I. Inamdar, Ajinkya G. Bagde, Tanay S. Gore, Rushikesh R. Suryawanshi, Madhuri V. Kadam, Rajaram S. Mane, Ravi S. Kawale, Oxygen vacancy driven defect-engineered Bi-substituted LaFeO₃ nanocomposites NH₃ gas sensor synthesized via sol–gel route, *Ceramics International*, 2026, ISSN 0272-8842, <https://doi.org/10.1016/j.ceramint.2026.07.570>.
- **Gaikwad, A. R.**, Bagde, A. G., & Kawale, R. S. (2026). The Superior Gas Sensing Properties Achieved through La-Doping in BiFeO₃: The Case of Bi_{0.75}La_{0.25}FeO₃. *International Journal of Physics Research and Applications*, 9(4), 65–70. <https://doi.org/10.29328/journal.ijpra.1001148>

Book Chapter Published-03

- **Avinash Ramkishan Gaikwad**, & Amol Rajendrasing Pardeshi. (2026). Rare Earth Doped Metal Oxides for Enhancing Gas Sensing Response in BiFeO₃ Ferrite. In *Emerging Frontiers in Science*

and Technology: Integrating Physics, Materials, and Energy Systems (pp. 64–68). Nature Light Publication.

- Kailas Namdevrao Warale, & **Avinash Ramkishan Gaikwad**. (2026). Recent Advances in Multifunctional Polymer–Metal Oxide Nanocomposites for Gas Sensing and Energy Storage Applications. In Emerging Frontiers in Science and Technology: Integrating Physics, Materials, and Energy Systems (pp. 194–198). Nature Light Publication.
- Amol R. Pardeshi, & **Avinash R. Gaikwad**. (2026). Supercapacitors for Sustainable Energy Storage: A Mini Review. In Emerging Frontiers in Science and Technology: Integrating Physics, Materials, and Energy Systems (pp. 280–284). Nature Light Publication

Research Projects-01

- Name of the project: ***‘Influence of La Doping on Ferrite-Based Bi-Metal Oxides for Advanced Gas Sensors’*** Funding agency: Vivekanand college Kolhapur (seed Money), Year: 2025-2027, Amount (Rs.): **1,00,000/- (One Lakh)**. Status: Ongoing.

Project guided to M.Sc. Students-04

- Guided M.Sc. students in **research projects** on material science (From academic Year: 2024–25). Successfully **mentored 03 students**.

Project names:

- 1) **Mr. Dhiraj Prakash Bhingardev**: “Characterization and synthesis of nickel magnesium ferrite By Sol-gel auto combustion Method”- (2024-25).
- 2) **Mrs. Anjali Kamble**: Characterization and synthesis of La doped Barium ferrite By Sol-gel auto combustion Method”- (2024-25)
- 3) **Mrs. Pooja Jaydip Gadkari**: “Synthesis and Structural Characterization of Lanthanum-Doped Zn - Co Spinel Ferrite ($\text{Zn}_{0.5}\text{Co}_{0.5}\text{La}_x\text{Fe}_{2-x}\text{O}_4$) Nanomaterials by Sol–Gel Auto-Combustion Method”- (2025-26)

Participation and Paper Presentation in conference, workshop, webinar

International

- ***“Intellectual Property Rights (IPR) & Filling of Patents, Copyrights and Trademark Application”*** Organised by IQAC & RDC, Vivekanand College, Kolhapur on date 05/08/2026 and 10/08/2026 Participated as a Organizing committee Member.
- ***Presented a paper in International Conference on Multifunctional Advanced Materials (ICMAM-2024)*** from 28th Oct to 30th Oct, 2024 Organized by the Department of Physics, VelTech Rangarajan Dr. Sagunthala R&D Institute of science and technology, Chennai.
- ***108th The Indian Science Congress International Conference*** at R.T.M. University Nagpur. Between 03 Jan 2023 to 07 Jan 2023. Organized by Ministry of Science & Technology, Government of India.
- ***International Conference on Advancement in renewable Energy (ICARE-2020)*** held at SRTM University, Nanded, Maharashtra, India, Between 11 Jan.2023 to 13 Jan 2023. Organized by School of Physical Sciences, Swami Ramanand Teerth Marathwada University, Nanded.

National

- Presented a paper in One Day National Conference on ***“Innovation in science and technology”*** on date 07 March 2026 organized by Dada Patil Mahavidhyalaya, Karjat, Dist, Ahilyanagar, Maharashtra.
- Presented a paper in One Day National Conference on ***‘New Horizons Basic And Applied Science For sustainable Development’*** on date 24 Jan. 2026 organized by Shikshanmaharshi Dr. Bapuji Salunkhe College, Miraj.
- Actively Participated in workshop on ***“AI-Powered Teaching & learning: Aligning with NEP - 2020”*** under lead college scheme on Shivaji College, Kolhapur (New College, Kolhapur Cluster) organized by department of computer and IQAC Vivekanand college, Kolhapur on date of 21 Nov 2025.

- Presented a paper in ***National conference on Nanomaterial and Applications (NCNA-2025)*** from 21 Feb.2025 to 22 Feb.2025 Organized by the Department of Physics, The New College, Kolhapur, Maharastra-416012.
- ***“The Role of National Education Policy in the Re- Accreditation Framework of Higher Education”*** Seminar Organized by Internal Quality Assurance Cell (IQAC) Yeshwant Mahavidhyalaya, Nanded on date of 23 May 2022.
- ***‘Yashwant learning Management System’ (YLSM-22) workshop*** Organised by Yeshwant Mahavidhyalaya, Nanded Between 30 Aug 2022 to 10 Sept 2022.
- ***“Innovative and Creative Approaches in Teaching- Learning with Technology”*** Workshop On date of 12th October 2019. Organized by Department of Electronics & Internal Quality Assurance Cell of Yeshwant Mahavidhyalaya, Nanded.
- ***"Research Integrity and Prevention of Plagiarism"*** Seminar on date of 19 March 2024 Organized By Anandibai Raorane Arts, Commerce and Science College, Vaibhav wadi, Intellectual Property Right (IPR) Cell in Collaboration with IQAC.

Committees Membership

- **Life Member of the Indian Association of Physics Teachers (IAPT)** Actively engaged in promoting physics education, participating in academic programs, and contributing to a national network of educators dedicated to excellence in physics teaching.
- Member of Board of Studies (BOS) in Physics committee under faculty of Science and Technology, Vivekanand College, Kolhapur (2024-25 to till date).
- Member of **Science Association** committee in Vivekanand College, Kolhapur (2024-25, 2025-26, 2026-27).
- Member of **ABC-ID** committee in Vivekanand College, Kolhapur (2024-25, 2025-26, 2026-27).
- Member of **Admission committee (B. Sc-I)** in Vivekanand College, Kolhapur (2024-25).
- Member of **Extra Curricular Activities Committee (Cultural Activities & Youth Festival)** in Vivekanand College, Kolhapur (2025-26).
- Member of **‘Vivekanand innovation and Incubation Centre’** in Vivekanand College, Kolhapur (2024-2025).

Committees Convenor

- Convenor of **Staf Academy** committee in Vivekanand College, Kolhapur (2025-26, 2026-27).
- Convenor of **Debating and various competition** committee in Vivekanand College, Kolhapur (2025-26).
- Convenor of **Energy Audit** committee in Vivekanand College, Kolhapur (2026-27).

Delivered Lecture/Invited Guest

- Delivered Guest lecture on ***“National Science Day”*** as a resource person at S.B. Khade Mahavidhyalaya, Koparde, Kolhapur on date of 28 Feb.2026.
- Worked as a ***judge*** for the Inter college ***Elocution competitions at S. B. Khade Mahavidhyalaya, Koparde, Kolhapur*** which was held January 13, 2026.
- Worked as a ***judge*** for the ***Elocution and Debate competitions at SRTMUN during the Youth Festival Dnyantirth – 2025***, which was held between October 12-15, 2025.
- Delivered Guest on ***“Future Opportunities in Physics”*** at Late Bhimrao Chavan Arts and Science college, Chavhanwadi. (03/09/2025)
- Worked as a ***judge*** for the ***Elocution competitions at Dr. Babasaheb Ambedkar University, Chatrapati Sambhaji Nagar (Aurangabad) during the Kendriy Youth Festival- 2024-25***, which was held between October 25 Dec.2024 to 28 Dec. 2024.
- Worked as a ***judge*** for the ***Elocution and Debate competitions at SRTMUN during the Youth Festival Dnyantirth - 2024***, which was held between October 18-21, 2024.

Presentations /(Talks)

- **SET, NET Workshop** at school of Physical Sciences, Punyashlok Ahilyadevi Holkar Solapur University, Solapur. 24 March 2023.
Invitation to guide post graduate students about structure of NET, SET exam and also discussed question of previous NET, SET examinations.
- **“शिवराय समजून घेताना”** at Nanded Education Society Science College, Nanded. 27 Feb. 2020.
Shivaji Maharaj Birth’s anniversary speech was organised to make the students aware of the history and create the future from history.
- **“SHIV-CHARITRA”** at Gramin Polytechnic college, Vishnupuri. 21/02/2017. The program arrange on SHIV-CHARITRA for students to provide something extra special information regarding Chatrapati Shivaji Maharaj.
- Attended as poet at the **“Kavy-sandhya”** event organized by NSS Department at DKASC college Ichalkaranji (23 Jan, 2025).

Participated & Winner

- Participated in “Swacchta Mitra Elocution Contest 2016-17 Organized by WSSO Maharashtra by Swachh Bharat Mission, India” at Aurangabad, and I got the Encouragement prize.
- Got the first prize in “Marathwadyacha Yuvavakta” Elocution Contest organized by Bhanudasrao chavhan Pratishthan at Science College, Nanded.
- Participated in **State level** Elocution Contest at Vidhya Bharati Mahavidhyalaya, camp Amravati and secured **first prize**. (Sept.2016)
- Participated in **State level** Elocution Contest at Vidhya Bharati Mahavidhyalaya, camp Amravati. (Sept 2017)
- Participated in **State level** Elocution Contest at Yashwantrao Chavan Pratisthan, Mumbai and got Encouragement Prize. (Jan.2017)
- Participated in youth Festival and secured **1st prize** in Debate competition in NES Science College, Nanded. (Jan 2015).
- Participated in Youth Festival and secured **1st prize** in Poem competition in NES Science College, Nanded (Jan 2015)
- Participated in Essay Competition and got **first prize**. Competition organized by Navodit Sahitya Sanskuti Mandal Kandhar. (Jan 2013)
- Participated in Elocution Contest ‘Swacchta Mitra’ Organized by WSSO Maharashtra by Swach Bharat Mission, India” at ZP Nanded. Got **First Prize**. (2016-2017)
- Participated in Elocution Contest ‘Swacchta Mitra’ Organized by WSSO Maharashtra by Swach Bharat Mission, India” at Panchayat sameeti Kandhar. And got **First Prize** (2017-2018)
- Participated in Poetry and Elocution Contest at SRTMUN **Surbhi-2012** Youth Festival, Aditya college of computer science and food technology college dist. Parbhani. (2012-2013)
- Participated in Poetry and Elocution Contest at SRTMUN **Shivneri-2013** Youth Festival at Maharashtra Mahavidhyalaya, Nilanga (2013-2014)
- Participated in Poetry and Elocution Contest at SRTMUN **Sahayog-2014** Youth Festival at Indira college of Pharmacy, VishnuPuri, Nanded (2014-2015)
- Participated in Elocution Contest **“Marathwadyacha Yuva-Vakta”** and got Prize in 2014 - *First Prize*, 2015 - *Third prize*, 2016 - *First prize*, 2018 - *First Prize*.
- Participated in Youth Festival Elocution Competition at Shivaji college Kandhar and got **First Prize**. (Feb.2014)

Date :11/08/2026

Your faithfully

Place : Maharashtra (India)

Avinash R. Gaikwad