

Mrs. Rupali Ravindra Katkar (M.Sc. Physics, SET, B.Ed.)

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Email Id: rupalikatkar08@gmail.com**Address:**Neel House, Behind Wale English
School, Vaibhav Nagar, Latur.**OBJECTIVE:**

Maharashtra SET-cleared (Physics, 2025), B.Ed. qualified and Ph.D. (Physics) scholar with 3.5 years of teaching experience seeking an opportunity to contribute to education through effective teaching.

WORK EXPERIENCE:

- Assistant Professor (Dec 2025 to Till Date)**
Rajarshi Shahu Mahavidyalaya, Latur
- Teacher (April 2025 to Dec 2025)**
Drona Defence Academy, Latur
- Science Teacher (April 2023 to October 2023)**
Sant Tukaram National Model School, Latur
- Assistant Professor (January 2021 to April 2023)**
Rajarshi Shahu Mahavidyalaya, Latur

EDUCATIONAL QUALIFICATION:

Degree	University/Board	Year of Passing	Result
Ph.D. Physics	SRTMU, Nanded	Final Synopsis Submitted	Registered in 2021
B. Ed.	SRTMU, Nanded	2019	80.86 %
M. Sc. Physics	Dr. BAMU, Aurangabad	2017	83.20 %
B. Sc. (Phy, Math, Comp)	Dr. BAMU, Aurangabad	2015	81.25 %
H.S.C	Aurangabad	2012	64.33 %
S.S.C.	Aurangabad	2009	76.46 %

ACHIEVEMENTS:

1. Qualified **Maharashtra State Eligibility Test (MH-SET) in Physics**, 2025, conducted by Savitribai Phule Pune University.
2. Qualified **Ph.D. Entrance Test (PET)**, Swami Ramanand Teerth Marathwada University (SRTMUN), [2021]
3. Qualified **B.Ed Entrance Examination (Maharashtra CET, 2017)**

RESEARCH WORK / PROJECTS:

1. Ph.D. Research

Topic: *Synthesis and Characterization of Sn and Al Doped ZnO Nanostructures Thin Films and Its Applications in Gas Sensor*

2. M.Sc. Dissertation

Topic: *Arduino Based Wireless Parameter Monitoring System*

Arduino Uno is a microcontroller used to develop bluetooth based monitoring system that automates the process control. A simplified environmental monitoring system with least number of components, and less complexity has been constructed. This system is compact and highly cost effective.

TECHNICAL SKILLS:

- MS-office
 - Spray Pyrolysis
 - Arduino based systems
 - Operating systems - Windows, XP, Linux
 - Processor – Microprocessor 8086
 - Controller – Microcontroller 8051
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PUBLICATIONS:

1. Rupali R. Katkar, Prathviraj L. Sarwade, Vishwanath D. Mote, Kamlakar N. Shivalkar. Investigation on Structural, Morphological and Optical Properties of Nanostructured Sn Doped ZnO Thin Films. J Sci Res Sci Eng Technol, 2026, 13 (3) : 844-849.
2. Rupali R. Katkar, Vishwanath D. Mote, Kamlakar N. Shivalkar. Enhanced Room-Temperature Hydrogen Sensing Performance of Nanostructured Al-Doped ZnO Thin Films Prepared by Spray Pyrolysis. Journal of Material Science: material in Electronics. (Submitted)
3. Rupali R. Katkar, Vishwanath D. Mote, Kamlakar N. Shivalkar. Microstructural and Optical Characteristics of 4 at.% Sn-Doped ZnO Thin Films Deposited by Spray Pyrolysis. J Sci Res Sci Eng Technol, 2026, 13 (3) : 925-928.

CONFERENCES/ WORKSHOPS:

1. Presented a paper entitled “Optical Characterization of ZnO Thin Films Using UV–Visible Spectroscopy” at the International Conference on Developments in Physical, Mathematical & Computational Sciences (ICDPSMSCS-2026) held on 16–17 March 2026 at Rajarshi Shahu Mahavidyalaya, Latur.
 2. Presented a poster paper entitled “Synthesis and Characterization of Al-Doped ZnO Thin Films by Spray Deposition Technique” at the International Conference on Innovations in Materials Science for Sustainable Future (ICMS-2026) organized by the Department of Physics, Dr. Babasaheb Ambedkar Marathwada University, Chhatrapati Sambhajnagar (MS), India, held during 3–5 February 2026.
 3. Attended four MSFDA programs focused on enhancing research skills, LMS development, and IDP programs at Rajarshi Shahu Mahavidyalaya, Latur.
 4. Participated in ‘Two days workshop on Arduino and its applications’ organized by Department of Physics, J.E.S. College Jalna, held on 20th – 21st Feb. 2017.
 5. Volunteer for “Jalna Talent Search Exam” held on 10th Jan 2017 organized by J.E.S. & Rotary Club Jalna at J.E.S. College, Jalna.
 6. Attended “Workshop on Research Methodology” held on 22nd Aug 2015 organized by Smt. Dankunwar Mahila Mahavidyalaya, Jalna.
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PERSONAL DETAILS:

Date of Birth: 07/01/1994

Gender: Female

Marital Status: Married

Language: Marathi, English, Hindi

I hereby declare that all the above information is true to the best of my knowledge.

Date: 20/06/2026

Mrs. Rupali Katkar