

Ms. Supriya Dattatraya Raut / (Mrs. Supriya Nilesh Tambe)

M.Sc., B.Ed.

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Ms. Supriya Dattatraya Raut

Research Scholar, Department of Physics,

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Date of Birth: 28/02/1989.

Status - Married

Home address- 16/3, Om Nupoor CHS, Near heaven bell school, Sahyadri Nagar,

Badlapur-East-421503 Dist- Thane

❖ Educational Qualification:

Education/Degree	Name of the school/college	Board/University Name	Grade/Class	Year of Passing
Ph.D.	Dr. Babasaheb Ambedkar Technological University, Lonere	Dr. Babasaheb Ambedkar Technological University, Lonere	-	Appear (2019-upto date)
B.Ed.	Seva Sadan College of Education, Ulhasnagar-3	Mumbai University	Second Class	2015
M.Sc.(Physics)	Ahmednagar College, Ahmednagar,	Pune University	First Class	2011
B.Sc.(Physics)	New Arts, Commerce and Science College, Ahmednagar	Pune University	First class with distinction	2009

❖ **Work Experience: total 7 years**

1. Present- Assistant Professor in Physics Department, Dr. B. A. Tech. University, Lonere.
2. Lecturer in Physics Department of Diploma , Dr. B.A.T.U.'s -I.O.P.E. Lonere 2022-2023.
3. Research Scholar (Full Time), From last 3 years pursuing in the Department of Physics.
4. Lecturer in Physics Department of Diploma , I.O.P.E., Lonere For the period- 4 months July2019-October 2019
5. Assistant Professor in Physics Department Dr. B. A. Tech. University, Lonere year 2018-19.
6. Assistant Professor in Physics Department Shree Chhatrapati Shivaji Maharaj College of Engineering , Nepti year 2017-18.
7. Assistant Professor in Physics Department Baneshwar College of Arts, and Science, Burhangar, Ahmednagar period of 3 months.
8. Assistant Teacher in Physics at S. H. Jondhale Jr. College, Dombivali(W) year 2016-17.
9. Assistant Professor in Physics Department, Dr. B. A. Tech. University, Lonere year 2011-2014.

❖ **Computer Skills**

- Course on Computer Concept(CCC)
- C-language
- Internet and E-mailing, MS office(word, excel, PowerPoint), Origin Software, ,Online work related skills

❖ **Research Area of interest**

Material Science- Solid state Physics, Spintronics, Nanomaterials

❖ **Conferences and Workshop**

1. Attended AICTE FDP (1week) programme on Characterization of Nano-Materials and Applications, NITTTR, Chandigarh, at remote centre Dr. B. A. T. U., Lonere 22nd – 26th June 2023.
2. Participated in Three Days National Workshop on “How to Draft Effective Scientific

Publications, Patents and Patent Filing” organized by Department of Electrical and Electronics Engineering, Research and Development Cell, In Association with IEI & ISTE Chapter, BIET from 02.07.2020 to 04.07.2020

3. NPTEL October 2020, **Surface Engineering of Nanomaterials**, Elite plus silver grade certificate.
4. Attended FDP of one and half week of –NPTEL October 2019, **Physics of Materials**
5. Attended FDP of one week of –NPTEL October 2019, **Introduction to Research**
6. NPTEL October 2018, **Solid State Physics**, Elite grade certificate.
7. Attended International Conference 99th ISCA-2012 at Bhubaneswar in KIIT University. 3-7th January 2012.
8. Attended International Conference 98th ISCA-2011 at Chennai, SRM University. 3-7th January 2011.
9. Attended International Conference 97th ISCA-2010 at Triuvananthapuram, Kerala University. 3-7th January 2010.
10. Workshop on ‘High Impact Teaching Skills’ at Dr. Babasaheb Ambedkar Technological University, Lonere.
11. Workshop on ‘Robotics’ at Ahmednagar, Vikhe patil Engineering College, Loni(post-graduation level)

International Conferences Participation and paper presented:

1. International Conference ON Materials Science and Nanotechnology for sustainable Application organized by University Department of basic and Applied Science , MGM university, Chatrapati sambhaji Nagar during 23rd -24th March 2023 presented the paper entitled with “ Cobalt Nano Ferrite via sol-gel auto combustion synthesis for application of spintronics”
S. D. Raut, S. G. Dahotre
2. 2023 International Conference on “Advanced Technologies in Chemical, Construction and Mechanical Sciences (ICATCHCOME 2023)” Paper ID: CCM 3059
09 - 10, February 2023 | Coimbatore, Tamil Nadu, INDIA
Paper Presented entitled with “**Investigation of Structural and Magnetic effect of Ca²⁺**”

Doped Ferrous Ferric Oxide Nanoparticles via sol-gel auto combustion synthesis”

S. D. Raut, S. G. Dahotre

3. 2nd One Day National Interdisciplinary Conference- ‘Climate Change and Youth-Time for Action’ 12th Feb 2022, Paper Presented

Study of Magnetite Nanoparticles for spintronics Application : A Brief Review

S. D. Raut, S. G. Dahotre, L. N. Singh, S. N. Jadhav

Conference Proceedings of 2nd One Day National Interdisciplinary Conference- ‘Climate Change and Youth-Time for Action’ 12TH Feb 2022 ISBN-No. -978-93-83342-67-9, pp 138-147 (NIC-CCY-2022).

4. One Day Virtual International Conference on Recent Advances in Engineering, Science and Technology-2021 (ICRAEST-2021) 16 July, 2021

Paper Presented: “Synthesis and Characterization of Magnetite and Cobalt Ferrite Nanoparticles by Sol-Gel Auto Combustion Technique”

S. D. Raut, S. G. Dahotre, L. N. Singh, S. N. Jadhav.

5. 6th International conference on ‘perspectives of preparing and implementing the swachh Bharat Abhiyan’ -6th march 2021 at Birla College, “Synthesis of Cobalt Substituted Magnetite for energy storage and minimization of e-waste”

S.D. Raut, S.G. Dahotre, L. N. Singh

International Journal Publications:

1. “Synthesis and Characterization of Magnetite and Cobalt Ferrite Nanoparticles by Sol-Gel Auto Combustion Technique”,
S. D. Raut, S. G. Dahotre, L. N. Singh, S. N. Jadhav
“International Journal of Innovation in engineering and Science ISSN- 2456-3463”,
Vol 6 Number 10, 2021
<http://doi.org/10.46335/IJIES.2021.6.10.4>
2. “Structural and Magnetic Studies of $\text{Co}_x\text{Fe}_{3-x}\text{O}_4$ By Sol-gel Auto combustion Technique For Spintronics Applications”
S. D. Raut, S. G. Dahotre, L. N. Singh, S. N. Jadhav
GIS Journal Page No: 644-662 DOI:20.18001.GSJ.2021.V8I9.21.38018
<http://www.gisscience.net/VOLUME-8-ISSUE-9-2021/>

Awards and Prizes:

“1st Prize (Best paper) award

For the paper Presentation “Synthesis and Characterization of Magnetite and Cobalt Ferrite Nanoparticles by Sol-Gel Auto Combustion Technique” ,

S. D. Raut, S. G. Dahotre, L. N. Singh, S. N. Jadhav

One Day Virtual International Conference on Recent Advances in Engineering, Science and Technology-2021 (ICRAEST-2021) 16 July, 2021

❖ **Memberships :**

Life Member of **IAPT** (Indian Association for Physics Teachers)

❖ **Project Undertaken**

- Project on electronics based “Sequential Light Timer” at graduation level
- Project on “microcontroller Based Token Number Display System” at Post graduation level

❖ **Other Activities:**

1. Work as Paper setter for Diploma Section, Dr. B. A. T. U., Lonere
2. Attended 5-day online National Programme on “women empowerment through Higher education” 21-25 Jan, 2021 conducted by Dr. B. A. T. University, Lonere in association with Bahai’s Academy, Panchgani and Himachal Pradesh Technical University, Hamirpur.
3. Participated in National Level Online Technical Quiz on “RESEARCH METHODOLOGY” during 20th – 22nd JUNE 2020 organized by Lokmanya Tilak College Of Engineering Sector -4, vikasnagar, Koparkhairane, navimumbai –400709 Department Of Mechanical Engineering In association with Indian Institution of Industrial Engineering Nhq Cbd Belapur, navi Mumbai
4. Attended 3days online FDP on “Enhancing Research Work of Ph.D. Aspirants through Systematic Approach” 8-10 June,2020. Lokmanya Tilak College Of Engineering Sector - 4, Vikasnagar, Koparkhairane, Navimumbai –400709 Department Of Mechanical Engineering In association with Indian Institution of Industrial Engineering Nhq Cbd Belapur, navi Mumbai
5. Participated in the ‘Teaching the next generation’, a 12 part webinar **series**, organised by the center of Excellence in Science and Mathematics Education, at the Indian Institute of Science Education and Research Pune, in collaboration with the Royal Society of Chemistry.
6. Participated in Online National Quiz on ‘Engineering Physics’ organized by Department of Physics, Medi-caps University, Indore in march 2020.

7. Attended one day webinar on 'Importance of Physics in Industry and Opportunities For Physics Students' organized by Department of Physics, Milind College of Science, Aurangabad on July 21, 2020.
8. Participated in 6 days workshop of Science leadership workshop organized by Central University of Punjab, Bhatinda, India from 22 June 2020 to 28 June 2020.
9. Attended webinar series 2020 on Characterization Techniques for Nanoparticles and Data Analysis on October 13-14, 2020 organised by Rayat Bahra University.
10. Participated workshop of Experimental Physics
11. Participate in 'Earn and Learn Scheme' at College Level.



Yours sincerely
Supriya Raut