


**SRES', Sanjivani College of Engineering, Kopargaon**  
(An Autonomous Institute affiliated to SPPU, Pune)

## Staff Profile

Personal Information			
Name of Teaching Staff : Dr. Sunita R Dandwate			
Designation : Assistant Professor			
Department : Mechatronics Engineering			
Date of joining : 01.08.1994			
E Mail ID :	dandwatesunitafy@sanjivani.org.in		
Contact No:	8378995507		
Education Details			
Qualification	Specialization with Class or Grade	University	Year
Ph.D.	Material Science, Awarded	Dr. BAMU, Chatrapati Sambhajinagar	2019
PG	MSc. Physics, First Class with Distinction	SPPU, Pune	1993
UG	BSc. Physics, First Class with Distinction	SPPU, Pune	1991
Total experience in years:			
Teaching:	31 years		
Industry:	-		
Research and Publications			
<u>Year 2025</u>			
<u>Year 2024</u>			
1. Vidyadevi D Patil, Dilip A Patil, Amar L Jadhav, Sharad L Jadhav, Anamika V Kadam, <b>Sunita R Dandwate</b> , Bhaurao R Shinde Spinel nickel ferrite (NiFe <sub>2</sub> O <sub>4</sub> ) materials synthesized via spray-pyrolysis for electrochemical supercapacitor application, Discover Electrochemistry, Vol. 1, Issue 1, Springer Nature Singapore, August 2024			

### Year 2023

### Year 2022

2. Miss. Ishwari Bhaskar Tirse, Prof. Nilesh Pardeshi, Dr. T. Bhaskar, **Dr. Sunita Dandwate**, Multiple Disease Prediction using Machine Learning, Neuroquantology, September 2022, Volume 20, Issue 11, Page 4369-4378, <https://www.neuroquantology.com/search?q=multiple%20disease%20prediction>
3. V. D. Patil, D. A. Patil, **S. R. Dandwate**, Structural, Morphological, Optical and Electrical Properties of NiFe<sub>2</sub>O<sub>4</sub> Thin Film by Spray Pyrolysis Method, Journal of the Maharaja Sayajirao University of Baroda, ISSN :0025-0422, Volume-56, No.1 (VIII) 2022.

### Year 2021

4. **Sunita Dandwate**, Ultrasonic Investigation of Binary Liquid Mixtures of DMSO with primary alcohols, International Journal of Researches in Biosciences, Agriculture and Technology, May-2021, IX(2), 163-170, e-ISSN 2347 – 517X

### Year 2020

5. **S. R. Dandwate**, S. B. Deshmukh, Acoustic and Thermodynamic Properties of Binary Liquid Mixtures Using DMSO at Different Temperatures, Current Pharma Research, 2020, 10(2), 3716-3723.

### Year 2018

6. **S. R. Dandwate**, S. B. Deshmukh, Excess Thermodynamic Properties of Binary Liquid Mixtures of DMSO with Methanol at Different Temperatures, International Journal of Universal Print, Vol. 4 (4), 2018, 196-201 (UGC Approval No.: 62813).

### Year 2016

7. **S. R. Dandwate**, S. B. Deshmukh, Comparative Evaluation of Ultrasonic Velocity in Binary Liquid Mixtures Over Wide Range of Temperatures, International Journal of Scientific Research, Vol. 5 (10), 2016, 340-345.
8. **S. R. Dandwate**, S. B. Deshmukh, [V](#)iscometric and thermodynamic study of binary liquid mixtures at 295 K, 300 K, 305 K, 310 K and 315 K, International Journal of Advancement in Engineering Technology, Management and Applied Science (IAETMAS), Vol. 3 (9), 2016, 99-106.

9. **S. R. Dandwate**, S. B. Deshmukh, Acoustic and Thermodynamic study of binary liquid mixtures at different temperatures from 295 K to 315 K, International Refereed Research Journal, (Special Issue on International Conference on Pure and Applied Sciences), Vol. 7 (4), 2016, 119-124.

**Year 2015**

10. **S. R. Dandwate**, S. B. Deshmukh, R. R. Dandwate, B. R. Shinde, V. A. Jundale, Seasonal Study of Physico-Chemical Characteristics of Ground Water of Rahata Area, M.S., IJMTER, July-2015, 663-669 (Impact factor: 1.711, e-ISSN No.: 2349-9745).

**Year 2012**

11. **S. R. Dandwate**, Study of Physico-chemical Parameters of Ground Water Quality of Kopergaon Area In Premonsoon and Post-monsoon Seasons E-Journal of Chemistry, 2012, 9(1), 15-20 (ISSN 0973-4945, Impact Factor: 0.715).

**Papers presented in conferences:**

1. -26.
- 2.

**Research Profile URL**

Google Scholar	<a href="https://scholar.google.com/citations?user=tU8a5rEAAAAJ&amp;hl=en&amp;authuser=3">https://scholar.google.com/citations?user=tU8a5rEAAAAJ&amp;hl=en&amp;authuser=3</a>
Scopus	54960935500
Orcid	<a href="https://orcid.org/0000-0002-8144-6834">https://orcid.org/0000-0002-8144-6834</a>
Web of Science	

**Other Research Details**

Ph D Guide ?Give field & University:	PhD Guide: No
	University: NIL

<b>Ph.d Guided details</b>	<b>Nil</b>
<b>Books Published</b>	<ol style="list-style-type: none"> <li>1. <b>Dr. S.R. Dandwate</b>, Dr. B.R. Shinde, Dr. V. D. Patil, Engineering Physics, Gigatech Publishing House, ISSN No.: , 2023</li> <li>2. <b>Dr. S.R Dandwate</b>, NEP Fundamentals, Challenges, Trends and Practices for Modern Sustainability, ISSN No.: 978-93-6674-650-0, 2025</li> </ol>
<b>IPRs/Patents</b>	<ol style="list-style-type: none"> <li>1. PORTABLE SOLAR POWERED CHARGER FOR ELECTRONIC DEVICES, Design No.: 415414-001, in the name of Dr. Sunita Rajendra Dandwate, Dr. Vidyadevi Dilip Patil, Dr. Bhaurao Ramchandra Shinde, Published on 30/04/2024</li> <li>2. IOT BASED BIOGAS LEAKAGE DETECTING DEVICE, Design No.: 415415-001, in the name of Dr. Sunita Rajendra Dandwate, Dr. Vidyadevi Dilip Patil, Dr. Bhaurao Ramchandra Shinde, Published on 30/04/2024</li> <li>3. WIRELESS CHARGER FOR ELECTRIC VEHICLE, Design No.: 415416-001 in the name of Dr. Bhaurao Ramchandra Shinde, Dr. Vidyadevi Dilip Patil, Dr. Sunita Rajendra Dandwate, published on Published on 30/04/2024</li> </ol>

<b>Professional Memberships:</b>	<ul style="list-style-type: none"> <li>o Life member in ISTE (Indian Society for Technical Education) LM22447.</li> </ul>
<b>Interaction with professional institutions</b>	<ol style="list-style-type: none"> <li>1. NPTEL: Effective Engineering Teaching in Practice, 63%, 4 week course, January-February 2024</li> <li>2. NPTEL: Accreditation and Outcome Based Learning, Elite with Silver, 8 weeks course, August to October 2022</li> <li>3. NPTEL: NBA Accreditation and Teaching Learning in Engineering (NATE), 75%, 12 weeks course, January to April 2020</li> <li>4. NPTEL: LASERS: Fundamentals and Applications, 8 weeks course, 22.10.2017</li> </ol>

### **Consultancy Activities**

<b>Duration</b>	<b>Title of Activity</b>	<b>Issued Organization</b>	<b>Amount</b>
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<b>Grants fetched</b>			
<b>Duration</b>	<b>Title</b>	<b>Issued Organization</b>	<b>Amount</b>
<b>2009 to 2011</b>	Assessment of Suitability of Water for Drinking in and around Kopargaon and Rahata Tehasils, Dist. Ahmednagar	<b>BCUD, Pune</b>	<b>60,000/-</b>
<b>Awards</b>			
<ul style="list-style-type: none"> <li>○ Global Lifetime Achievement Award-2023 received in International Conference held at Dubai on Multidisciplinary Research and Innovation.</li> <li>○ <b>Global Women Empowerment Award-2022</b> received in International Conference ICCMST 13<sup>th</sup> and 14<sup>th</sup> July 2022.</li> </ul>			

<b>FDPs and STTPs ATTENDED</b>
<ol style="list-style-type: none"> <li>1. <b>5 days</b> online FDP on <b>Lasers Fundamentals and Applications</b>, NITTR, Chandigarh, 21.07.2025 to 25.07.2025 (Online mode)</li> <li>2. <b>5 days</b> STTP on <b>Curriculum Design and Development</b>, NITTR Bhopal 06.01.2025 to 10.01.2025 at Sanjivani COE, Kopargaon</li> <li>3. <b>5 days</b> online FDP on <b>Nanomaterials and Devices</b>, NITTR, Chandigarh, 22.07.2024 to 26.07.2024 (Online mode)</li> <li>4. <b>10 days training program</b> on <b>Business Opportunity in Food Industries</b>, MCED, Govt. of Maharashtra, 08.01.2024 to 17.01.2024 (Online mode)</li> <li>5. <b>3 days</b> face-to-face FDP on <b>Inculcating Universal Human Values in Technical Education</b>, AICTE, Delhi at SRES COE Kopargaon, 10.08.2023 to 12.08.2023</li> <li>6. <b>7 days National level FDP</b> on <b>Outcome Based Education</b>, St. James College of Nursing and St. James College of Pharmaceutical Sciences, Chalakudy in association with The Kerala State Higher Education Council, 08.03.2023 to 15.3.2023 (Online mode)</li> <li>7. <b>5 days FDP</b> on <b>Accreditation and Outcome Based Education</b>, AICTE Training And Learning (ATAL) Academy, 08.02.2021 to 12.02.2021, Yeshwantrao Chavan College of Engineering (Online Mode)</li> </ol>

<p>8. <b>5 days FDP on Green Technology &amp; Sustainability Engineering</b>, AICTE Training And Learning (ATAL) Academy, 15.12.2020 to 19.12.2020, L.D. College of Engineering (Online Mode)</p> <p>9. <b>7 days National level FDP on Covid-19: Issues, Challenges and Interventions in the Contemporary Crisis</b>, Government First Grade College, Bangalore, 30.04.2020 to 06.05.2020 (Online Mode)</p> <p>10. <b>1 day FDP on ICT tools for Online Teaching</b>, SRES COE, Kopargaon , 26.05.2020 (Online mode)</p> <p>11. <b>1 day FDP on Effective Ways of Online Teaching</b>, PVPIT, Pune, 12.06.2020 (Online mode)</p> <p>12. <b>7 days Short term course on e-Content Development</b>, UGC, HRDC, Gujrat University, 14.05.2020 to 20.05.2020 (Online mode)</p> <p>13. <b>14 days FDP on Multimedia and Drawing</b>, Government First Grade College, Harihara in association with Spoken Tutorial, IIT Bombay, 03.06.2020 to 16.06.2020 (Online mode)</p> <p>14. <b>12 days National training Program on Entrepreneurship development and Management</b>, Entrepreneurship Development Institute of India sponsored by Department of Science and Technology, 04/03/2019 to 15/03/2019</p> <p>15. <b>13 days FDP on Present Scenario of Treatment of Waste Water in India: Challenges, Issues and New Techniques of Treatment</b>, 2 weeks FDP, Department of Civil Engineering, SRES, Sanjivani College of Engineering, Kopargaon, 13.11.2017 to 25.11.2017</p> <p>16. <b>5 days Workshop on Applications of Engineering Mathematics</b>, Sandip Institute of Technology and Research centre, Nashik, 20.04.2015 to 24.04.2015</p> <p>17. <b>5 days ISTE Sponsored STTP on Design of Experiments and Optimization Techniques (DOE-OT-15)</b>, SERS COE, Kopargaon, 01.06.2015 to 05.05.2015</p>
<b>EVENTS ORGANIZED</b>
<p>1. Poster competition on Modern Physics of Sensors, for the students of first year engineering, on 28.03.2024 at Sanjivani COE, Kopargaon</p> <p>2. Coordinator for State Level Webinar on <b>Applications of Basic Physics for Design and Development of various types of Sensors</b>, at SRES College of Engineering, Kopargaon on 09.06.2020</p> <p>3. Worked as coordinator of Engineering Science Dept. for two days National level Conference viz. <b>Emerging Trends in Engineering and Science</b> organized by SRES's COE, Kopargaon, 01.11.2014 to 02.11.2014</p>
<b>INVITED LECTURES IN CONFERENCE/SEMINAR</b>
<p>▪ <b>Worked as a resource person to talk on the topic Research for the beginners</b> in an International Conference on Climate Change and its Effect on Environment, Agriculture,</p>

Management, Health and Society organized By Mes's Arts, Commerce And Science College, Sonai, Ahmednagar, Ms, Msspm's Lal Bahadur Shastri Sr. College, Partur, Jalna, Ms, & Yuvaraja's College (Autonomous), Mysuru, Karnataka, on 13/11/2024 (Online mode)

OTHER Professional URLs	
Personal Website	-
Linked In Profile	<a href="https://www.linkedin.com/in/dr-sunita-dandwate-47768595/">https://www.linkedin.com/in/dr-sunita-dandwate-47768595/</a>
GitHub URL	-
YouTube Channel	<a href="http://www.youtube.com/@dr.sunitadandwate2251">http://www.youtube.com/@dr.sunitadandwate2251</a>
Other	Researchgate - <a href="https://www.researchgate.net/profile/Sunita-Dandwate?ev=hdr_xprf">https://www.researchgate.net/profile/Sunita-Dandwate?ev=hdr_xprf</a>

**Any Other:**

- **Expert talk** on Functional Dyes to MSC Chemistry (Part 2) students of Sanjivani Senior College, Kopargaon on 26.03. 2025.
- **Chairperson for the group of Basic Sciences** for oral and poster competition in an International Conference ICCEAMHS-2024, 13.11.2024 to 14.11.2024
- **Expert talk** and interactive session on “Palya aani Palakatva” at Goda Valley School, Ravande on 15<sup>th</sup> February 2024.
- **Worked as a Chairperson** in an International Conference ICCMST 2022 for the group of Basic Sciences, 14.07.2022 to 15.07.2022 (Online mode)
- **Expert talk** on “Women’s Education, Safety and Security” on 7/3/2020 at Arts, Commerce and Science College, Sonai Tal. Newasa, Dist. Ahmednagar.