


SRES's, Sanjivani College of Engineering, Kopargaon

(An Autonomous Institute affiliated to SPPU, Pune)

Staff Profile

Personal Information			
Name of Teaching Staff: Dr. Vidyadevi D. Patil			
Designation : Assistant Professor			
Department : Mechatronics Engineering			
Date of joining : 09.08.2011			
E Mail ID :	patilvidyafy@sanjivani.org.in		
Mobile No.	9552847147		
Education Details			
Qualification	Specialization with Class or Grade	University	Year
Ph.D.	Physics	SRTMU University, Nanded	2022
PG	M.Sc. (Physics with First class)	Shivaji University Kolhapur	2002
UG	B.Sc. (Physics with first class)	Shivaji University Kolhapur	2000
Total experience in years:			
Teaching:	15 years		
Industry:	-		
Research and Publications			
<p style="text-align: center;"><u>Year 2025</u></p> <p>1. Spray pyrolysis-based preparation and electrochemical study of zinc ferrite thin film, D. A. Patil , V. D. Patil, A. L. Jadhav, Interactions (2025) 246:83</p> <p style="text-align: center;"><u>Year 2024</u></p>			

1. Spinel nickel ferrite (NiFe_2O_4) materials synthesized via spray-pyrolysis for electrochemical supercapacitor application, **Vidyadevi D. Patil**, Dilip A. Patil, Amar L. Jadhav, Sharad L. Jadhav, Anamika V. Kadam, Sunita R. Dandwate, Bhaurao R. Shinde, Discover Electrochemistry (2024) 1:2

Year 2023

1. Physical and electrochemical characteristics of NiFe_2O_4 thin films as functions of precursor solution concentration, VA Jundale, DA Patil, AA Yadav, Journal of Materials Research 38 (2), 439-449

2. Electrochemical properties of CoFe_2O_4 thin film electrodes prepared by spray pyrolysis
VA Jundale, AA Yadav, Thin Solid Films 772, 139821

Year 2022

1. Preparation and characterization of NiFe_2O_4 thin films for supercapacitor applications, VA Jundale, DA Patil, AA Yadav, Phase Transitions 95 (11), 786-802

Precursor solution concentration-dependent electrochemical properties of CoFe_2O_4 thin films, VA Jundale, AA Yadav, Journal of Materials Science: Materials in Electronics 33 (24), 19612-19626

2. Structural, Morphological, Optical And Electrical Properties Of NiFe_2O_4 Thin Film by Spray Pyrolysis Method, V. D. Patil, D. A. Patil, Journal of the Maharaja Sayajirao University of Baroda 56 (1)

3. Precursor solution concentration-dependent electrochemical properties of CoFe_2O_4 thin films
VA Jundale, AA Yadav, Journal of Materials Science: Materials in Electronics 33 (24), 19612-19626

Year 2021

1. Structural, optical and electrical properties of spray-deposited Fe-doped nanocrystalline $\text{ZnS}_{0.2}\text{Se}_{0.8}$ thin films, NM Patil, SG Nilange, VA Jundale, PB Kadam, R Chandrashekhar, ...
Phase Transitions 94 (6-8), 493-510

1. Structural, morphological and optical properties of CoFe_2O_4 thin film by spray pyrolysis technique, VA Jundale, GY Chorage, AA Yadav, Materials Today: (43), 2678-2681

2. Mesoporous cobalt ferrite thin film for supercapacitor applications, VA Jundale, DA Patil, GY Chorage, AA Yadav, Materials Today 43, 2711-2715

Papers presented in conferences:

➤ **Papers Presented in Conferences:**

1. **V.D. Patil**, V. B. Ghanwat, D.A. Patil, Synthesis And Electrochemical Study Of Nickel Ferrite Thin Film Electrodes Prepared By Spray Pyrolysis Method, International Conference on Nanobiotechnology (ICNB'23), March 17-18, 2023. Dept. of Biotechnology, & Dept. of Nanoscience & Technology, Yashavantrao Chavan Institute of Science, Satara – 415001 (M.S.), India
2. **V.D. Patil**, International conference on ICMRI-2023 on Multi-Disciplinary Research and Innovation, Cross over destination management company Dubai in collaboration with Arts commerce and Science Sonai, MS India, Lal Bahadur Shastri Sr. College, Partur MS India.
3. **V.D. Patil**, D.A. Patil, Synthesis And Electrochemical Study Of Nickel Ferrite Thin Film Electrodes Prepared By Spray Pyrolysis Method, International Conference on Nanobiotechnology (ICNB'23), March 17-18, 2023. Dept. of Biotechnology, & Dept. of Nanoscience & Technology, Yashavantrao Chavan Institute of Science, Satara – 415001 (M.S.), India.
4. **V.A. Jundale** “Nanofluid as a coolant for a Four stroke Engine”, (NCNAP-2011), Proceeding Book.
5. **V.A. Jundale**, “Future nanocoolant for a Vehicle”, (NCNAP 2013) Proceeding Book.
6. **V.A. Jundale**, Budding Positive and Negative Effects of Nanotechnology on Environment and Health, Proceedings of Functional Materials @ nanoscales concerns and Challenges (2015) ISBN-978-81-930740-0-8.
7. S.R. Dudhat, **V.A. Jundale**, S.S. Chine, Use of Ultrasonic Interferometer To Study Solvent-Solvent Interaction At Different Temperatures, International Journal for Research in Engineering Application & Management (IJREAM), ICRTET (2018) ISSN: 2454-9150.

Google Scholar	https://scholar.google.co.in/citations?hl=en&user=8cyby4QAAAAJ
Scopus	57223282062
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Web of Science	

Other Research Details	
Books Published	<p>1] Dr. S. R. Dandawate, Dr. B. R. Shinde, Dr. V.D. Patil, Engineering Physics, Gigatech Publication, (2024) (ISBN 978-81-952439-8-3)</p> <p>2] Dr. V.D. Patil, Thin Film Deposition and Characterization Techniques, Kindle publications (ISBN 978-93-340- 3368-7) (March 2024)</p>
IPRs/Patents	<ol style="list-style-type: none"> 1. Design patent on IOT BASED BIOGAS LEAKAGE DETECTING DEVICE with design no 415415-001 published on 30/04/2024 inventers: 1.Dr. Sunita Rajendra Dandwate 2. Dr.Vidyadevi Dilip Patil 3.Dr. Bahurao Ramchandra Shinde 2. WIRELESS CHARGER FOR ELECTRIC VEHICLE with design no 415416-001 in the name of 1.Dr. Bahurao Ramchandra Shinde 2. Dr.Vidyadevi Dilip Patil 3.Dr. Sunita Rajendra Dandwate published on 30/04/2024 3. PORTABLE SOLAR POWERED CHARGER FOR ELECTRONIC DEVICES, with design no 415414-001 published on 30/04/2024 inventers: 1.Dr. Sunita Rajendra Dandwate 2. Dr. Vidyadevi Dilip Patil 3.Dr. Bahurao Ramchandra Shinde

Professional Memberships:	
Interaction with professional institutions	<ol style="list-style-type: none"> 1. 12 Weeks NPTEL Swayam course on Physics of Renewable Energy Systems-organized by Indian Institute of Technology, Karagpur on July-Oct 2022 2. 8 weeks course on Work Smarter, Not Harder: Time management for personal and professional productivity, by UCI, Division of continuing of Education, university of California on 13.8.2022. 3. 12 Weeks NPTEL Swayam course on NBA- Accreditation and Teaching - Learning in Engineering (NATE) oJan-April 2020. 4. 8 weeks NPTEL Course on Enhancing soft Skill and personality organized by Indian Institute of Technology, Karagpur on Feb-April 2019. 5. 8 weeks NPTEL Course on LASER: Fundamentals and Applicationsorganized by Indian Institute of Technology, Kanpur on Aug-Oct 2017 6. Workshop on “Intellectual Property Rights (IPR)- Process and procedure in India’SRES’sSanjivani College of Engineering, Kopargaon, 17-18.1.2020. 7. Workshop on “Effective way of online teaching” organized by PVIT, Pune, on 12.6.2020 8. Workshop on “ ICT tools for online Teaching” organized by Dept. of MBA, Sanjivani College of Engineering, Kopargaon on 26.5.2020. 9. Three days workshop on “Art of Research paper writing and IPR” organized by First Year Engineering Department of PCET’s Pimpri Chinchwad College of Engineering (PCCOE, Nigdi), Pune on 25-27.5.2020. 10. Workshop on “Innovative Techniques of Research in Science & Technology” organized by Dept. of Engineering Science, Sanjivani College of Engineering, Kopargaon, on 6.1.2019. 11. Workshop on “Big Data &IoT” organized by Dept. of Computer Engineering, SRES’s Sanjivani College of Engineering, Kopargaon on 25-

	26.11-2016. 12. Workshop on “Virtual Lab” organized by Dept. of Mechanical Engineering, SRES’s Sanjivani College of Engineering, Kopargaon on 4.4.2016. 13. Workshop on “Nano Composite Materials-A Research Horizon” organized by Dept. of Mechanical Engineering, SRES’s Sanjivani College of Engineering, Kopargaon on 25.2.2015.		
Consultancy Activities			
Duration	Title of Activity	Issued Organization	Amount
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Grants fetched			
Duration	Title	Issued Organization	Amount
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Awards			
<ul style="list-style-type: none">• Best Researcher Award 2023 received from Cross over destination management company Dubai in collaboration with Arts commerce and Science Sonai, MS India, Lal Bahadur ShashrtiSr.College, Partur MS India in 6 June 2023• Global Best Teacher Award 2022” for recognition and appreciation of contribution in key areas and working position, received in International Conference on Changing Perspectives in Environment, Management, Humanities, Sciences and Technology (ICCEMST-2022) on 15th July 2022, by management of MSSPM’s, LalbahadurShastri Sr. College Partur (MS), MES’s, Arts Commerece and Science College, Sonai (MS) and Yuvraja’s College Mysuru, Karnataka.			

FDPs and STTPs ATTENDED

<ol style="list-style-type: none"> 1. One week FDP on Lasers Fundamentals and Applications Conducted by Applied Science Department from 21/07/2025 to 25/07/2025 (One Week) at NITTTR, Chandigarh 2. One week FDP on Nanomaterials and Devices Conducted by Applied Science Department from 22/07/2024 to 26/07/2024 (One Week) at NITTTR, Chandigarh 3. One week FDP on Research Methodolgy organized by IIT Madras on oct 2023 4. One week, FDP on “Nanotechnology: Synthesis, Characterization, Applications of nanomaterials in Engineering and Science” organized by Bharti Vidyapeeth’s college of Engineering, Kolhapur, on 17-22.2.2022. 5. One week FDP on “AICTE- ISTE Non-Conventional Energy Sources (Green Energy)” organized by Sanjivani K.B.P. Polytechnic, Kopargaon on 18-24.5 2021 6. One week ATAL FDP on “Scilab”organizedbyRajarshiShahuMahavidyalaya, Latur and spoken tutorial project IIT, Bombay, on 1-7.5.2020. 7. Two weeks Training on “Physics in Daily Life” organized by Swa. SavarkarMahavidyalaya, Beed on 25.4.2020-1.5.2020. 8. Two weeks Training on “SCILAB” organized by Rajarshi Shahu Mahavidyalaya, Latur, on 1.5.2020-7.5.2020. 9. One week FDP on “Photonics” organized by Rajarshi Shahu Mahavidyalaya, Latur, on 3-7.11. 2020. 10. One week FDP on “Role of Engineer in uplifting the industry post COVID-19 Lockdown in India”. 11. One week NPTEL-ATAL FDP on “ Enhancing Soft Skill and Personality” organized by IIT Madras, on April 2019. 12. AICTE Sponsored Two week FDP on “ Present Scinario of treatment of Waste in india: Challenges, Issues and New Techniques of treatment organized by Dept. of Civil Engineering, SRES’s Sanjivani College of Engineering, Kopargaon on 13-25.11.2017.
EVENTS ORGANIZED
INVITED LECTURES IN CONFERENCE/SEMINAR
<ul style="list-style-type: none"> • Worked As A Resource Person In The International Conference On Climate Change And

Its Effect On Environment, Agriculture, Management, Health And Society, Held On 13th And 14th November 2024. (ICCEAMHS - 2024) November 13th - 14th, 2024 Jointly 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

- **Expert Talk on** Research Paper Writing in the workshop organized by PVPC Pravaranagar on 20 th Jan 2024
- Worked As A **Chairperson** For The Physics Session, Oral & Poster Presentation, At The International Conference On Climate Change And Its Effect On Environment, Agriculture, Management, Health And Society, Held On 13th And 14th November 2024.
- Worked as **Chairperson** in International Conference on “Changing Perspective in Environment, Management, Humanities, Sciences and Technology” (ICCEMST-2022) held on 14 and 15th July 2022.
- Worked as a **Chairperson** in 45th State level Science Exhibition Entitled “Shashwat Vikasasathi Vidnyanani Tantradnyan” on 24-27 Feb 2020.

OTHER Professional URLs	
Personal Website	-
Linked In Profile	
GitHub URL	-
YouTube Channel	https://studio.youtube.com/channel/UCrdi5-MTgBWEFY5wrFAXioA
Other	Researchgate - https://www.scopus.com/authid/detail.uri?authorId=57223282062

Any Other: