


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

Staff Profile

Personal Information			
Name of Teaching Staff : Dr. Shantanu Madhukar Kadam			
Designation : Assistant Professor			
Department : Mechatronics Engineering			
Date of joining : 23/07/2007			
E Mail ID :	smkadammk@sanjivani.org.in		
Contact No:	7775008181		
Education Details			
Qualification	Specialization with Class or Grade	University	Year
Ph.D.	Mechanical Engineering	Oriental University	2023
PG	Design Engineering - 61.80%	Sivaji University	2016
UG	Mechanical Engineering - 67.80%	NMU University	2004
Total experience in years:			
Teaching:	21 years		
Industry:	-		
Research and Publications			

Conference Publications

1. Shantanu Madhukar Kadam, Sunil K. Somani, “Optimization of different parameters of aluminium-steel alloy by Friction stir welding”, *International conference on advances in materials processing (ICAMP-2022)*, Organised by National Institute of Technology, Raipur, Jan. 2022.

Journal Presentations

2. Shantanu Madhukar Kadam, Sunil K. Somani, H. S. Patil, “Determine the feasibility for dissimilar material by Friction stir welding”, *Neuroquantology*, Volume 20, Issue 14, pp. 1035-1045, 2022 (SCOPUS Indexed Journal)
3. Shantanu Madhukar Kadam, Netra Pal Singh, “Experimental Analysis of two dissimilar metal alloy by friction stir welding” *International Journal of Engineering Research in Mechanical and Civil Engineering*, Volume 9, Issue 6, 2022,
4. Shantanu Madhukar Kadam, Netra Pal Singh, “Friction stir welding of two dissimilar metal alloy: A survey” *Springer book Advances in Manufacturing Technology and Management*, pp. 313-320, 2022, (SCOPUS Indexed Journal)
5. Shantanu Madhukar Kadam, Ashok Kumar Gupta, “Friction Stir Welding of Two Dissimilar Metal Alloy: A review” *Bhugol Swadesh Charcha (Multidisciplinary International Journal)*, Vol. 16, Issue 4, 2020.

Research Profile URL

Google Scholar

<https://scholar.google.com/citations?user=KSRI9aoAAAAJ&hl=en>

FAB Academy

<https://fabacademy.org/2025/labs/sanjivani/students/shantanu-kadam/index.html>

Other Research Details

Ph D Guide ?Give field & University:	PhD Guide: No
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Ph.d Guided details	Nil
Books Published	

<p>IPRs/Patents</p>	<ol style="list-style-type: none"> 1. ‘Micro Windmill Unit’, Design Patent no: 402482-00, Date of issue: 19/04/2024, Inventors: Sanjivani College of Engineering, Sachin S Raj, G.Vijayakumar, J.Eswari. 2. ‘Phase change material-enhanced energy efficient water heaters for industrial applications’, Utility Patent no: 202341060646, Date of publication: 06/10/2023. Inventors: M Babu, Sachin S Raj, Paulmar Pushparaj, R Jeremiah, M S Jagatheeshwaran, R Ramadoss. 3. ‘Agriculture fertilizer spreader machine’, Design Patent no: 379554-001, Date of issue: 17/05/2023. Inventors: Sachin S Raj, P Arulmozhi, A Jayaganthan, M sudhagar. 4. ‘An artificial intelligence based helmet for accident detection and notification’, Utility Patent Reg. no. 202221065842, Date of Publication: 25.11.2022. Inventors: Sachin S Raj, S Muthuraj, S Saravanan, M Babu, 5. ‘Remote monitoring of semi-automatic pepper threshing machine using industrial internet of things’, Utility Patent Reg. no. 202141033840, Date of Publication: 28/07/2021. Inventors: M Babu, Sachin S Raj, T K Kannan, B Sanjay Gandhi, N Balakrishnan, C Thiruvassagam. 6. ‘Handy Sanitizer Dispenser’, Utility Patent Reg. no. 202041028733, Date of Publication: 10.07.2019. Inventors: V Dhinakaran, M Ramarao, M Babu, P Devvabalan, R Suresh, P Senthilkumar, N Kirubakaran, S DaisonStallon, A Senthilkumar, S Muthukumaran, P Naveenkumar, D Mala, Sachin S Raj, N Nagarajan, R D H Devi.
<p>Professional Memberships:</p>	<ul style="list-style-type: none"> ○ Member of International Association of Engineers (IAENG) – 180264. ○ Senior Member of Indian Society of Mechanical Engineers (ISME) – SMISME20171215GCT8726. ○ Life member in Society of Innovative Educationalist and Scientific Research Professionals (SIESRP) – LM171899227.

Interaction with professional institutions	<ol style="list-style-type: none"> 1. NPTEL – Engineering Graphics-Isometric Projections, Jan-Apr 2023, 84% - <i>Elite with Silver Medal and Topper Certification</i>. 2. NPTEL - Engineering Graphics-Orthographic Projections, Jan-Apr 2023, 65% - Elite Certification. 3. Training program on National Intellectual Property Awareness Mission, 04.11.2022, Ministry of Commerce and Industry, Government of India. 4. Online course on Designing Course Outcomes, 04.11.2022, Inpods Ed-Tech. 5. Workshop on Robotics and Medical automation, 18.06.2021, Bharath Institute, Chennai. 6. Webinar on Digital twin-driven smart manufacturing, 17.06.2021, Sri Venkateshwara College of Engineering, Chennai. 7. Three Day National level Workshop on Research Methodology, 02.06.2021 to 04.06.2021, Annai Veilankanni College of Engineering, Kanyakumari. 8. Webinar on Machinability of Composites, 31.05.2021, Arasu Engineering College, Kumbakonam. 9. Webinar on Research scope in boiling heat transfer, 03.06.2020, Bannari Amman Institute of Technology, Sathyamangalam. 10. Webinar on Teaching to Transform – A comparative teaching and learning methodology, 18.07.2020, Easwari College of Engineering, Chennai. 11. Webinar on Nanofluids in solar energy utilization, 11.07.2020, Francis Xavier College, Tirunelveli. 12. Webinar on Fabrication of fiber reinforced composite materials, 30.05.2020, Jayamukhi Institute of technological sciences, Warangal. 13. Webinar on Revolutionize optimize operations in India Manufacturing industries, 28.07.2020, Kalasalingam University, Virudhunagar. 14. Webinar on Plastic Challenges: Processing and Recycling, Vigan Institute, Hyderabad. 15. Webinar on Bio-Materials for Hip implants, 15.06.2020, V.R.S college of E&T, Arasur. 16. One week Workshop on Advances in Manufacturing Processes, 13.07.2020 to 17.07.2020, Bharat Institute of Engineering and Technology, Hyderabad. 17. Two day national Seminar on Functional composite materials – Processing & Characterization, 16.09.2019 and 17.09.2019,
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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"> ○ India Prime 100 Researchers Award presented by Fox Clues and press released by The Hindustan Times & Daily Hunt – 09/08/2021. ○ Young Faculty Excellence Award presented by Global Multidisciplinary Research and Academic Foundation, Chennai – 26/12/2020. ○ Young Researcher Award presented by ESN publications Chennai 28/09/2019. 			

FDPs and STTPs ATTENDED

1. **5 days** online FDP on Inculcating Universal Human Values in Technical Education, 19.12.2022 – 23.12.2022, AICTE, New-Delhi
2. **5 days** online **FDP** on Training of Trainers for Teacher Educators, TLC-8, 05.12.2022 - 09.12.2022, National Institute of Technical Teachers' Training and Research (NITTTR), Bhopal.
3. **5 days** online FDP on IoT and Machine Learning Applications to Engineering Systems, 21.11.2022 – 25.11.2022, Vellore Institute of Technology (VIT), Chennai.
4. **7 days** online Faculty Development Program on Manufacturing and Characterization of Advanced Materials, 14.03.2022 – 21.03.2022, NIT Warangal & Kongu Engineering College, Erode.
5. **6 days** online Faculty Development Program on Advances in Strength of Materials and Manufacturing Engineering, 06.12.2021 to 11.12.2021, Academy of Maritime Education and Training, Chennai.
6. **5 days** online Faculty Development Program on Additive Manufacturing Processes and its Applications, 23.08.2021 to 28.08.2021, Sri Manakula Vinayagar Engineering College, Puducherry.
7. **14 days** online FDP on Advances in Composite Materials, Manufacturing Processes and Optimization Techniques, 01.06.2021 to 14.06.2021, Academy of Maritime Education and Training, Chennai.
8. **6 days** FDP on Additive Manufacturing, 24.05.2021 to 29.05.2021, Dr. N.G.P Institute of Technology, Coimbatore, Sponsored by Centre for Faculty Development, Anna University, Chennai.
9. **5 days** online Faculty Development Program on Sensors Technology, 05.10.2020 to 09.10.2020, Gnanamani College of Technology, Sponsored by AICTE-ATAL.
10. **5 days** online Faculty Development Program on Recent trends in Mechanical Engineering, 22.06.2020 to 26.06.2020, Narsimha Reddy Engineering College, Telangana.
11. **7 days** online Faculty Development Program on Advanced Engineering Materials for strategic & Societal sectors, 10.06.2020 to 15.06.2020, Vel Tech High Tech College, Chennai.
12. **15 days** Faculty Development Program on Recent trends in driverless electric vehicle technologies, 24.11.2019 to 07.12.2019, sponsored by AICTE, held at IRTT Erode.
13. **7 days** FDP on Power Plant Engineering, 04.06.2018 to 10.06.2018, sponsored by Centre for Faculty Development, Anna University, Chennai and held at Gnanamani College of Technology, Namakkal.

EVENTS ORGANIZED

1. Sanjivani I connect programme - Industry 4.0 and 5.0, Conducted with Keijon tools, South Korea, 12.03.2025.
2. Sanjivani I connect programme - ML Gen-AI and Agentic Framework, Conducted with Quartic.ai, Bangalore, 14.03.2025.
3. Sanjivani I connect programme - Financial Literacy, Conducted with Security Exchange Board of India (SEBI), 17.03.2025
4. Sanjivani I connect programme - The Digital twin: Bridgining the Physical and Digital worlds in Engineering, Mrs. Fabeena Roselin, Innovation Lead, Virgin Atlantic, London, UK, 18.07.2025.
INVITED LECTURES IN CONFERENCE/SEMINAR
Nil

OTHER Professional URLs	
Personal Website	-
Linked In Profile	https://www.linkedin.com/in/dr-sachin-s-raj-527326275/?originalSubdomain=in
GitHub URL	-
YouTube Channel	https://www.youtube.com/@Dr.Sachin_Mech
Other	Researchgate - https://www.researchgate.net/profile/Sachin-Raj-4

Any Other: