

Faculty Profile



- **Faculty Name** : **Sourabh Sadanand Kulkarni**
- **Designation** : Associate Professor
- **Department** : Mechanical Engineering
- **Mobile No.** : 7588260130
- **Email Id.** : sskulkarni6493@gmail.com

● Educational Qualification

Sl.	Degree	University	Class
1	B.E.- Mechanical Engineering	Shivaji University, Kolhapur	First class with Dist
2	M.E. Mechanical Design	Shivaji University, Kolhapur	First class
3	Ph.D – Mechanical Engineering	Shivaji University, Kolhapur	Awarded

● Professional experience:-

Total experience in years:-11 Years & 05Months

Teaching: - 11 Yr. & 5 Months

Industrial: - 00

Research: - 00

Sl.	Organization	Post	Period
1	AMGOI, Wathar	Associate Professor	July 2026 till date
2	SSPM's College of Engineering, Kankavli	Assistant Professor	August 2019 to June 2026
3	Sanjay Bhokare Group of Institutes, Faculty of Engineering	Assistant Professor	August 2017 to July 2019
4	Dr. J. J. Magdum College of Engineering, Second Shift Diploma, Jaysingpur	Lecturer	February 2016 to August 2017
5	Shree Datta Polytechnic, Shirol	Lecturer	June 2014 to May 2015

➤ Subject Taught: -

Undergraduate Subjects			
1	Theory of Machines	2	Machinery Diagnostics
3	Mechanical Measurement and Control	4	Optimization Techniques
5	Production Planning and Control	6	Logistics and Supply Chain Management
7	Engineering Graphics	8	Machine Interface Design
9	Cad Modelling	10	IC Engines
11	Power Plant Engineering	12	Renewable Energy

➤ **Patent:** Dual-Action precision gearbox with variable torque output, Granted, No. 475279-001

➤ **Research Area of Interest:** - Design optimization, Non-Conventional Energy, Vibration Analysis, Condition Monitoring, Wind Engineering

➤ **Soft skill:-**

- ✓ Design and Modelling: AUTO CAD , CATIA V5R20, Solid Works.
- ✓ Analysis Software: ANSYS 16, for Static structural and modal analysis
- ✓ Automation and Simulation: MATLAB.

- **Project Work at U.G.:-** "Robotic supporting leg for handicapped people."
- **Project Work at P.G.:-** "Analysis of crack detection in cantilever beam by frequency-based method."
- **Project Work at Ph.D. :-** "Some theoretical and experimental studies on vibration analysis of crack on wind mill structure for structural health analysis by frequency-based method"
- **Major Contribution in Institute Accreditation:**
 - Head of Criteria no. 01 of NAAC committee at SSPM, COE, Kankavli
 - Controller of Examination at SSPM, COE, Kankavli
- **Paper Published in National & International Journal:-**

Sr. No.	Title of the Paper	Publication/Presentation Details	Date/Period
01	Analysis of crack detection in cantilever beam by frequency-based method	National Conference on "Recent Trends in Mechanical Engineering" NCRTME-2016	July 2016
02	R404a-R23 Cascade Refrigeration system performance evaluation	International conference on "Recent Trends in Engineering, Science and Management"	December 2016
03	A review on optimal selection of machining parameters in turning operations on MRR and surface roughness	International Research Journal of Engineering and Technology (IRJET)	Sept 2020
04	Analysis of optimal selection of machining parameters on MRR and surface roughness using Taguchi Method	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)	Sept 2020
05	A review on application based on Cutter Using Crank and Slotted Lever Mechanism	International Research Journal Engineering and Technology (IRJET)	April 2021
06	Automated pesticide sprayer for Arecanut	International Research Journal Engineering and Technology (IRJET)	April 2021
07	Automatic Mechanical Cutter Using Crank and Slotted Lever Mechanism	International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET)	June 2021

08	A review on experimental methods in health monitoring techniques for wind turbine blade	9th International Conference on “Advancements and Futuristic Trends in Mechanical and Materials Engineering” at IIT Ropar	Dec 2021
09	Experimental investigation of effect of a transverse crack on Wind Turbine Blade using vibration-based method for the development of SHM	9th International Conference on “Advances in Energy Research” at IIT Bombay	Dec 2023
10	Numerical and experimental investigations in a cracked wind turbine blade using natural frequencies	Wind Engineering, SAGE Publication	April 2024
11	Experimental Investigation of Effect of Edgewise Crack on Wind Turbine Blade Using Vibration-Based Method	Journal of The Institution of Engineers (India): Series C	Nov 2025
12	Experimental investigation of vibration damping system using pendulum and spring	ICASME – 2026	March 2026

- **No. of Project Guided at U.G. Level: -** 17
- **No. of Project Guided at P.G. Level: -** 00
- **STTP/FDP/Workshops/Attended/Participated: -**

Sr. No.	Name of the Conference /Seminar/Workshop	Place	Year
01	2 Days Workshop on “Vibration Measurement and Analysis”	PVPIT, Budhgoan	Nov 2015
02	3 Days Workshop on “Vibration and Noise: Method of Analysis, Measurement and Control”	Dr. J.J.M.C.O.E Jaysingpur	March 2016
03	One Day Workshop on “Research Methodology”	Dr. J.J.M.C.O.E Jaysingpur	Oct 2016
04	One-week STTP on “Introduction to FFT Analyzer and its Application for Industrial Consultancy”	SVERI’s College of Engineering, Pandharpur	December 2017
05	One day workshop on “Teaching Methodologies in the subject Noise and Vibration”	Nanasaheb Mahadik College of Engineering, Peth	December 2017
06	One-week National Level Online FDP on “Effective use of ICT tools in Teaching Learning Process”	Organized by Government Polytechnic, Malvan	June 2020
07	National Webinar on: “CPM & PERT Techniques for Product Launch”	Sanathana Research and Training Institute in Association with Rotary Club of Mysore-West	March 2021
08	Webinar on “Implementation of National Education Policy-2020”	SGM College of Engineering Mahagaon In Collaboration With Government College of Engineering Karad	April 2021

09	5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education”	AICTE	July 2021
10	Five Day Faculty Development Program on “EMERGING TECHNOLOGIES IN AUTOMOTIVE INDUSTRY”	Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering And Technology	August 2021
11	one day Entrepreneurship Awareness Program	SSPM’s College of Engineering, Kankavli In collaboration with MSME, Government of India	Feb 2022
12	How to Write Thesis Report in Latex	SSPM’s College of Engineering, Kankavli	Feb 2022
13	How to Publish a Scientific Research Paper	SSPM’s College of Engineering, Kankavli	Feb 2022
14	Nanotechnology and Nano materials	SSPM’s College of Engineering, Kankavli	Feb 2022
15	Matlab Fundamentals	SSPM’s College of Engineering, Kankavli	Sept 2023
16	One Week Online Faculty Development Program (FDP) on "Recent Trends in Mechanical Engineering"	Department of Mechanical Engineering of ATS SBGI, Miraj in collaboration with ISTE, New Delhi	Jan 2024
17	2 Days FDP on “Recent Trends in Renewable Energy and Energy Conservation”	Yashwantrao Chavan Polytechnic, Ichalkaranji	Feb 2024
18	Present Scenario and Future of Automobile Fuel	SSPM’s College of Engineering, Kankavli	March 2024
19	5 Days FDP on “Emerging Trends in Mechanical Engineering”	SSPM’s College of Engineering, Kankavli	May 2024
20	One Week STTP on “Condition Based Monitoring – Leverage Technology for Smarter Industrial Maintenance”	St. Francis Institute of Technology, Borivali	Jun 2024
21	ATAL FDP on “The Role of Additive Manufacturing in the Era of Industry 4.0”	GMR INSTITUTE OF TECHNOLOGY	Sept 2025
22	Innovating Education: AI Applications in Technical Learning	SSPM’s College of Engineering, Kankavli	Sept 2025
23	STTP on AI Integrated Proactive Maintenance Strategies in Industry 5.0	FCRIT, Vashi	July 2026

➤ **Programs Organized:-**

Sl.	Name of Program	Institute	Date
1	National Level Symposium	SSPM's College of Engineering, Kankavli	2022
2	Virtuosic 2k23		2023
3	International Conference on Emerging Trends in Engineering Science and Technology		2026

➤ **Coordinator /In-charge /member in various committees:**

- 1) Member of R&D committee
- 2) Controller of Examination
- 3) IT Coordinator for On Screen Digital Evaluation
- 4) NAAC Criteria – I In-charge
- 5) Departmental Faculty Coordinator of Students association
- 6) Departmental coordinator of time table
- 7) Departmental coordinator of library
- 8) Lab in-charge of maintenance engineering Lab (Total Investment 5 L)

➤ **Social Contribution If Any:** - Tree Plantation, Blood Donation, Career counselling sessions for students, RSS Swayamsevak, Shivpratishtan Dharkari.

➤ **Professional Membership:**

- Lifetime Member of ISTE.