


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

Staff Profile

Personal Information			
Name of Teaching Staff: Mr. Harshal Pandit Varade			
Designation: Assistant Professor			
Department : Mechanical Engineering			
Date of joining : 27th December, 2007			
E Mail ID :	varadeharshalmech@sanjivani.org.in		
Contact No:	(+91) 9657618078		
Education Details			
Qualification	Specialization with Class or Grade	University	Year
UG	Mechanical Engineering	Pune University	2000
PG	Design Engineering	S. P. Pune University	2013
Ph.D.	Pursuing		
Total experience in years:			
Teaching:	18 years		
Industry:	5.5 years		
Research and Publications			

1. P. William, Pravin B. Khatkale, Harshal P. Varade, Santosh Kumar Sharma, N. Yogeesh. "Developing Food Packaging with Nanomaterials: In-Depth Examination based on Electromagnetic and Optical Radiations" Journal of Polymer and Composites. 2024; 12(06):36-44.
2. M.V. Kulkarni¹, P. William, Pravin B Khatkale, Harshal P. Varade, Sandip R. Thorat. Developing an AI-Based Novel Forecasting Framework for Surface Irregularity in Metal Matrix Materials. Journal of Polymer and Composites. 2024; 12(05):48-56.
3. "Modal Analysis Of Healthy And Damaged 60 Kg Type Rail - A Step Towards Crack Detection In Indian Rail" Proceedings of the XVI Vibration Engineering & Technology of Machinery Conference VETOMAC 2021 December 16 - 18, 2021, B.M.S. College of Engineering, Bengaluru, India.
4. S.R. Thorat, K.C. Bhosale, H.P. Varade "FE Analysis and Experimental Validation of Residual Stresses in Arc Welding" STM Journals, Journal of Experimental & Applied Mechanics ISSN: 2230-9845(online), ISSN: 2321-516X (print) Volume 6, Issue 1
5. Prof. H.P. Varade, Prof. K.C. Bhosale, Prof S.R. Thorat, Prof. P.W. Ingle "Use of Fuzzy Logic Method for the Optimisation of the Wear Parameters of Aluminum Alloy" STM Journals, Trends in Mechanical Engineering & Technology ISSN: 2231-1793(online), ISSN: 2347-9965(print) Volume 5, Issue 1
6. ¹H.P.Varade, ²Dr.A.G.Thakur, ³P.M.Patare, ⁴N.D.Sadaphal "Tribological Studies of Aluminium Zinc Alloy Composites using Design of Experiments (DOE)", Proceedings of National Conference on Recent Trends in Mechanical Engg.-2013 held at GHRCOE Wagholi, Pune.
7. ¹H.P.Varade, ²Dr.A.G.Thakur, ³P.M.Patare, ⁴N.D.Sadaphal "Wear Studies Of Aluminium Zinc Alloy Metal Matrix Composites" IJEST, ISSN: 0975-5462 Vol. 5 No.05 May 2013.
8. Prof N D Sadaphal, Prof A G Thakur, Prof P M Patare & Prof. H P Varade "Tribological Performance of Composite Polytetrafluoroethylene (PTFE) under Dry Condition" Sanjivani Vision 2012- National Conference on Emerging Trends in Engineering and Technology ISBN - 978-93-81583-30-2.(2011-12)
9. N D Sadaphal , K C Bhosale, S B Kharde , H P Varade "Performance Behaviour of Composite Polytetrafluoroethylene (PTFE) - A Taguchi Approach", International Journal of Current Engineering and Technology, ISSN 2277 – 4106.(2013-14)

Book Chapters:					
Sr. No.	Name of Author	Title of Book Chapter	Title of Book	Publisher	Page No.
1	P William, S C Bhangale, H P Varade, Santosh Kumar Sharma	Future of Business Organizations Based on Robotic Process Automation: A Review	Robotic Process Automation	John Wiley & Sons, Inc.	181-188
2	Vyankatesh P Bhaurkar, Laxmikant S Dhamande, Harshal P Varade	Vibration analysis of advanced healthy and damaged rail—a step towards fault detection	Recent Advances in Material, Manufacturing, and Machine Learning	CRC Press	451-459
Papers presented in conferences:					
Sr No.	Author	Title of Paper	Name of Conference	Date and Venue	
1	Harshal P Varade, Sonal C Bhangale	“Convolutional Neural Network Based On-Line Defect Recognition in Additive Manufacturing Using Image Processing”	4th International Conference on Computation, Automation and Knowledge Management (ICCAKM-2023)	12th - 13th December 2023	
2	Sonal C Bhangale, Harshal P Varade, Sandip R Thorat	Air Quality Hotspot Monitoring with Trajectories of IOT in Smart City	3rd International Conference on Pervasive Computing and Social Networking" on June 19-20,	19-20 June, 2023.	

3	Harshal P Varade, Sonal C Bhangale, Sandip R Thorat	Framework of Air Pollution Assessment in Smart Cities using IoT with Machine Learning Approach	2nd International Conference on Applied Artificial Intelligence and Computing (ICAAIC-2023)	04-06 May 2023
Research Profile URL				
Google Scholar		https://scholar.google.com/citations?hl=en&user=vj3POEUAAAAJ		
Scopus		https://www.scopus.com/authid/detail.uri?authorId=58408836000		
Orcid		https://orcid.org/0000-0002-1156-6128		
publons		--		
Other Research Details				
Ph D Guide ?Give field & University:		NA		
Ph Ds/ Projects Guided:				
Books Published		1. An Introduction to Nanoscience and Nanotechnology ISBN-9789357621656 Authors: Harshal P Varade, Sandip R Thorat, Sonal C Bhangale Alpha International Publication, Tamilnadu 2. Industrial Instrumentation and Control ISBN-9789357576062 Authors: Sonal C Bhangale, Harshal P Varade Scientific International Publishing House, Tamilnadu 3. Robotics –Fundamentals ISBN-978-93-6674-282-3 Authors:Harshal P Varade, Sonal C Bhangale Scientific International Publishing House, Tamilnadu		
IPRs/Patents		1. Framework using IOT and Image Processing Anti-Theft Systems for Vehicles (<i>1st author</i>) PUBLISHED, Application Ref Number-202321009821, Filing Date-14/02/2023 -Indian Patent Office 2. Nanotechnology and the future of additive manufacturing using 3-D printing (<i>3rd Author</i>) PUBLISHED, Application Ref Number-202321011814, Filing Date-21/02/2023 -Indian Patent Office		

Professional Memberships:	Life Member of Indian Society of Technical Education (ISTE)		
Interaction with professional institutions	NA		
Consultancy Activities			
Duration	Title of Activity	Issued Organization	Amount
-	-	-	-
Grants fetched			
Duration	Title	Issued Organization	Amount
Nil			
FACULTY DEVELOPMENT PROGRAMMES ATTENDED			
Name of the FDP / Workshop	Organization	Duration	Month-Year
Material Characterization and Optimization	CVR College of Engineering Mangalpalle, Telangana 501510	24/09/2024 to 28/09/2024	September-2024
Advanced Artificial Techniques (AI) And Matlab Integration	Sanjivani College of Engineering Kopargaon	21/10/2024 To 26/10/2024	October-2024
Mastering Research Excellence: AI-Assisted Scientific Writing & High Impact Publications	Sanjivani College of Engineering Kopargaon	25/11/2024 To 30/11/2024	November-2024
Engineering Metrology	NPTEL	July-October 2023	October-2023
Design Technology Innovation	NPTEL	July-September 2023	October-2023

Recent Developments in Materials and Manufacturing Processes	Smt. Kashibai Navale College of Engineering, Pune	15th January to 27th January 2024	January-2024
Application of Multicriteria Decision Making Methods	Pimpri Chinchwad College of Engineering and Research, Ravet, Pune	02nd April, 2024 to 06th April, 2024	April-2024
Quantative Research through IBM SPSS	Sanjivani College of Engineering Kopargaon	5-Days FDP 26th September to 30th September, 2022	September-2024

FACULTY DEVELOPMENT PROGRAMMES ORGANIZED

Name of the FDP / Workshop	Organization	Duration	Month-Year	Capacity
2nd International Conference ETBS-2024-Worked as Organizing Incharge for Presentation and Registration	Sanjivani College of Engineering, Kopargaon	27 and 29 April 2024	April-2024	65
Organizing Committee member for FDP "Mastering Research Excellence: AI-Assisted Scientific Writing & High Impact Publications"	Sanjivani College of Engineering, Kopargaon	25/11/2024 To 30/11/2024	November-2024	82
Organizing Committee member for Workshop "Awareness of National Education Policy (NEP)-2020"	Sanjivani College of Engineering, Kopargaon	13/07/2024	July-2024	120
Organizing Committee Member – Sanjivani conference ICRTC 2025	Sanjivani College of Engineering, Kopargaon	25/04/2025 to 26/04/2025	April-2025	300

INVITED LECTURES IN CONFERENCE/SEMINAR				
Title of Lecture/ Academic Session		Title of Conference/ Seminar etc.	Organized By	
Nanotechnology		Invited Lecture	Padmashri V B Kolte College of Engineering and Polytechnic Malkapur.	
Advances in Metrology		Invited Lecture	Sanjivani KBP Polytechnic Kopargaon	
OTHER Professional URLs				
Personal Website		Nil		
Linked In Profile		https://www.linkedin.com/in/mr-harshal-varade-96a5b634/		
GitHub URL		Nil		
YouTube Channel		https://www.youtube.com/@harshalvarade2271		
Other		ResearchGate Profile https://www.researchgate.net/profile/Harshal-Varade-3?ev=hdr_xprf		
Any Other:				
NPTEL Certifications				
Sr. No	Title of Course	Certification Body	Duration	Certification Date
1	Total Quality Management-I (Elite-63%)	NPTEL/ SWAYAM	Feb-April 2025	06 May 2025
2	Introduction to Research Methodology (75%)	NPTEL/ SWAYAM	Jan-April 2025	21 May 2025
3	Engineering Metrology	NPTEL/ SWAYAM	July-October 2023	29-10-2023
4	Design Technology Innovation	NPTEL	July-September 2023	17-10-2023

5	Nanomaterials for Energy Harvesting and Storage application	NPTEL/ SWAYAM	August-October 2022	
6	Accreditation and Outcome Based Learning	NPTEL/ SWAYAM	July-August 2022	