


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

## Staff Profile

Personal Information			
Name of Teaching Staff: (Dr.) Dhamande Laxmikant Shankarrao			
Designation: Associate Professor			
Department : Mechanical Engineering			
Date of joining : 24 <sup>th</sup> Nov, 2003			
E Mail ID :	<a href="mailto:dhamandelaxmikantmech@sanjivani.org.in">dhamandelaxmikantmech@sanjivani.org.in</a>		
Contact No:	(+91) 9763567881		
Education Details			
Qualification	Specialization with Class or Grade	University	Year
UG	Mechanical Engineering	Dr. B.A.M.U.	2000
PG	Design Engineering	Dr. B.A.M.U.	2007
Ph.D.	Mechanical Engineering	SPPU, Pune	2019
Total experience in years:			
Teaching:	22.5 years		
Industry:	2.5 years		
Research and Publications			
<div>1. Vaibhav D. Dabhade, Bhagyashree Ashok Tingare, Sandip R. Thorat, R.A. Kapgate, Tarun Dhar Diwan, Laxmikant S Dhamande, P. William, “Forecasting Dielectric Behavior of Nano-Epoxy Materials through AI-based Electronic Properties”, Journal of nano- and electronic physics, vol. 17 no 3, 03023(5pp) (2025)</div> <div>2. Laxmikant S. Dhamande, “Condition Monitoring of Forced-Draft Fan Using Vibration Analysis: A Case Study”, Eng. Proc. 2025, 93, 9. <a href="https://doi.org/10.3390/engproc2025093009">https://doi.org/10.3390/engproc2025093009</a></div> <div>3. Nitin S. Aher, Umesh Gurnani , Laxmikant S. Dhamande , Rakhi Bornare and Anurag Hamilton, “Improving Ice Plant Efficiency with Al<sub>2</sub>O<sub>3</sub> Nanoparticles and Evaporative Cooling Techniques”, International Journal of Air-Conditioning and Refrigeration, 33:4, 2025, 1-9.</div> <div>4. VP Bhaurkar, L S Dhamande, HP Varade, “Vibration analysis of advanced healthy and damaged rail—a step towards fault detection” Recent Advances in Material, Manufacturing, and Machine Learning, (2024) 451-459.</div> <div>5. Dhiraj P. Bhaskar , Santosh V. Bhaskar, Sachin S. Raj, L.S. Dhamande, “Numerical investigation of sandwich plate in bending by a new inverse shear deformation theory based on finite element analysis” Forces in Mechanics,13, (2023)100238.</div> <div>6. Laxmikant S. Dhamande, Vishal B. Jadhav, “Vibration Reduction in Ambulance Using Modified Stretcher with Vibration Absorber”, Vibration Engineering and Technology of Machinery, Volume I, Mechanisms and Machine Science 137, (2023).207-217.</div>			

7. Laxmikant S. Dhamande, Vyankatesh Bhaurkar, P N Patil, "Vibration analysis of induced draft fan : A case study", *Materials Today: Proceedings*, Volume 72, Issue 3, (2023), Page 657-663.
8. Laxmikant S. Dhamande, Mangesh B. Chaudhari, "Compound Gear-Bearing Fault Feature Extraction Using Statistical Features Based on Time-Frequency Method", *Measurement*, 125 (2018) 63-77.
9. Laxmikant S. Dhamande, Mangesh B. Chaudhari, "Detection of combined gear bearing fault in single stage spur gear box using Artificial Neural Network", *Procedia Engineering* 144 (2016), 759-766. doi:10.1016/j.proeng.2016.05.082
10. Laxmikant S. Dhamande, Mangesh B. Chaudhari, "Bearing Fault Diagnosis Based on Statistical Feature Extraction in Time and Frequency Domain and Neural Network, *International Journal of Vehicle structures and systems*", 8(4), (2016), 229-240. doi:10.4273/ijvss.8.4.09.
11. Ubed Sayyad, Laxmikant S. Dhamande, "Stress Analysis Of Adhesively Bonded Joint Using Experimental Theoretical And Finite Element Method", *NeuroQuantology*, Volume 20, Issue 14, (2022), Page 1168-1180.
12. Ashish B. Pendharkar, Laxmikant S. Dhamande, Titanium alloy is the best material for roller shaft in sugar mill, *International journal of innovative technology and exploring engineering*, 10(12),(2021), pp.1-6.
13. Ashish B. Pendharkar, Laxmikant S. Dhamande, To identify best material for roller shafts using static structural analysis, *International journal for research trends and innovation*, 6(8), (2021), pp.24-30.
14. Sachin D. Dere, Laxmikant Dhamande, "Rotor bearing system FEA analysis for misalignment", *IJARIE*, 3(4), (2017),2102-2112. (ISSN-2395-4396).
15. J. S. Mahajan, L. S. Dhamande, "Review: Design of Passive Composite Isolation System For Machine Foundaion", *International Journal of Advance Engineering and Research Development*, 4(5), (2017),1111-1114.
16. J. S. Mahajan, L.S.Dhamande, "Design of Passive Composite Isolation System For Machine Foundaion", *International Research Journal of Engineering and Technology*,4(5), (2017), 3270-3276.
17. Vikram Vakte, Laxmikant Dhamande, "Simulation of helical spring used in tractor seat application", *International Journal of Modern Trends in Engineering and Reasearch*, 2(7), (2015),1958-1962.
18. V. P. Bhaurkar, A. G. Thakur, L. S. Dhamande, "Identification and determination of cracks in beams using vibration analysis and FEA approach", *International Engineering Research Journal*, 2, (2015), 531-534.
19. Vikram Talekar, L. S. Dhamande, "Condition Monitoring of Deep Groove Ball Bearing using FFT Analyzer", *International Journal of Engineering Research & Technology (IJERT)*, 4(4), (2015), 215-222.
20. L. S. Dhamande, A. C. Pawar and V. J Suryawanshi, "Detection of Fault in Gear Box System using Vibration Analysis Method", *International Journal of Current Engineering and Technology*, 4(6), (2014), 3985-3989.
21. Laxmikant S. Dhamande, Mangesh B. Chaudhari, "An Overview of Fault Detection Methods for Transmission System Components using Vibration Analysis", *International Journal of Emerging Engineering Research and Technology*, 2(4), (2014), 360-368.
22. Vaibhav J Suryawanshi and L. S. Dhamande, "Vibration Based Condition Assessment of Rotating cracked shaft using changes in critical speed and RMS Velocity response functions", *International Journal of Current Engineering and Technology*, 3, (2014), 170-174.
23. L. S. Dhamande and R. V. Bhaskar, "Damage Detection in Aluminium Honeycomb

Structure using Vibration Analysis”, International Journal of Current Engineering and Technology, 4(5), (2014), 3374-3379.

24. L. S. Dhamande, Dr. H. N. Kudal, “An Overview Of Fault Detection Methods For Transmission System Components Using Vibration Analysis”, International Journal of Advanced Technology in Engineering and Science, 01(11), (2013), 09-16
25. Sonam M. Gujrathi, L. S. Dhamande and P. M. Patare, “Wear Studies on Polytetra fluroethylene (PTFE) Composites: Taguchi Approach”, Bonfring International Journal of Industrial Engineering and Management Science, 3(2), (2013), 47-51.
26. Abhinay V. Dube, L. S. Dhamande, P. G. Kulkarni, “Vibration Based Condition Assessment of Rolling element Bearings with Localized Defects”, International Journal of Scientific & Technology Research, 2(4), (2013), 149-155.

### **Papers presented in International conferences:**

1. Shubhangi Jadhav, Laxmikant S. Dhamande, ‘Development of a Smart Crop and Fertilizer Recommendation System Using Machine Learning for Precision Agriculture’ International conference on Recent trends in computing, ICRTC 2025.
2. Laxmikant S. Dhamande, ‘Condition Monitoring of Forced Draught Fan Using Vibration Analysis: A Case Study’, at the International Conference on Mechanical Engineering Design (ICMechD-2024) held at Sri Sivasubramaniya Nadar College of Engineering, Chennai, India on 21-22 March 2024.
3. Vyankatesh Bhaurkar, Laxmikant S. Dhamande, “Vibration analysis of advanced healthy and damaged rail - a step towards fault detection”, 2<sup>nd</sup> International Conference on “Recent Advances in Materials, Manufacturing and Machine Learning. RAMMML-2-4 Feb. 2023
4. Laxmikant S. Dhamande, Vyankatesh Bhaurkar, Pankaj Patil, “Vibration analysis of induced draft fan : A case study”, 2<sup>nd</sup> International Conference & Exposition on Advances in Mechanical Engineering (ICAME-2022) at College of Engineering Pune [COEP], Pune, Maharashtra, 23 – 25 June 2022
5. Laxmikant S. Dhamande, Vishal B. Jadhav, “Vibration Reduction in Ambulance Using Modified Stretcher With Vibration Absorber”, International Conference on Vibration Engineering and Technology of Machinery (VETOMAC-2021) at BMS College of Engineering, Bengaluru, 16 – 18 Dec. 2021.
6. Vyankatesh Prabhakar Bhaurkar, Ajaykumar Thakur, Laxmikant S. Dhamande, Harshal P. Varade, “Modal Analysis of Healthy and Damaged 60 Kg Type Rail - A Step Towards Crack Detection in Indian Rail”, International Conference on Vibration Engineering and Technology of Machinery (VETOMAC-2021) at BMS College of Engineering, Bengaluru, 16 – 18 Dec. 2021.
7. Laxmikant S. Dhamande, Mangesh B. Chaudhari, “Detection of multiple defects in rolling contact bearing using wavelet multi-resolution analysis”, International Conference on Vibration problems (ICOVP-2017) held at IIT Guwahati, 29 Nov. – 02 Dec. 2017.
8. Laxmikant S. Dhamande, Mangesh B. Chaudhari, “Effective gear teeth defect identification using multi-domain feature extraction” International Conference On Advances in Thermal System, Materials and Design Engineering (ATSMDE-2017) at VJTI, Mumbai, 21-22 Dec. 2017.
9. Laxmikant S. Dhamande, Mangesh B. Chaudhari, ‘Bearing Fault Diagnosis Based on Statistical Feature Extraction in Time and Frequency Domain and Neural Network’, International Conference on Mechanical Engineering Design (ICMED-2016) at SSN, CoE, Chennai, 25-26 April 2016.
10. Laxmikant S. Dhamande, Mangesh B. Chaudhari, “Detection of combined gear bearing fault in single stage spur gear box using artificial neural network” 12th International

- conference on vibration problems (ICOVP-2015) held at IIT Guwahati, 14-17, Dec, 2015.
11. A. Pawar, L. S. Dhamande, “Faults detection methods in a Gear System-A Review” International Conference On Design, Manufacturing and Mechatronics (ICDMM-2014), held at Trinity College of Engg., Pune during 9-10, Jan, 2014.
  12. V. J. Suryawanshi, L. S. Dhamande, S. V. Bhaskar, “Vibration Based Condition Assessment of Rotating cracked shaft using changes in critical speed and RMS Velocity response function” International Conference On Design, Manufacturing and Mechatronics (ICDMM-2014), held at Trinity College of Engg., Pune during 9-10, Jan, 2014.
  13. V. P. Bhaurkar, L. S. Dhamande, A. G. Thakur, “A Review of methods for determining location and severity of multiple cracks” Proceedings of International Conference on Advances in Mechanical Engineering-13 (ICAME’2013) held at Govt. College of Engg., Pune during 20-31 May, 2013.
  14. S. M. Gujrathi, L. S. Dhamande, “Analysis of PTFE Composites as Bearing Material” Proceedings of International Conference on Recent Trends in Engineering and Technology-2013( ICRTET’2013) during 22-23 Feb. 2013.
  15. L. S. Dhamande, P. S. Shinde “Non-linear finite element analysis approach to a vehicle structure crashworthiness” Proceedings of International Conference on Total Engineering, Analysis & Manufacturing Technologies (TEAM-TECH 2008), held at Indian Institute of Science, Bangalore during 22-24 September 2008.
  16. P. S. Shinde, L. S. Dhamande, “Modal analysis on passive suspension system for cars using quarter car, half car & full car model simulations” Proceedings of International Conference on Total Engineering, Analysis & Manufacturing Technologies (TEAM-TECH 2008), held at Indian Institute of Science, Bangalore, Karnataka.
  17. S. V. Bhaskar, L. S. Dhamande, “Theoretical and experimental analysis of motor cycle chassis (800cc) frame using fem and FFT analyzer” Proceedings of TEAM-TECH 2008, held at Indian Institute of Science, Bangalore, Karnataka

#### **Papers presented in National conferences:**

1. Laxmikant S. Dhamande, Mangesh B. Chaudhari, “Condition monitoring of gearbox system for detecting multi-component defects using wavelet de-noising”, National Conference on Emerging Trends in Mechanical Engineering (NCETME-2019) held at VIT, Pune, 7 Feb. – 08 Feb. 2019.
2. L.S.Dhamande, “An optimization of cutting parameters to prevent chatter vibration via Tauguchi based Response Surface Methodology” is presented and published in the proceedings of National Conference on Sustainable Development in Mechanical Engineering, held at Zeal college of Engineering and Research, Pune (MS), on 16-17 February 2018.
3. S. U. Turkane, L.S.Dhamande, “Design optimization and analysis of rollers used for manufacturing of Honda active rim” is presented and Published in the proceedings of National Conference on Advanced Technology and Innovations in Mechanical Engineering, held at SAE Konthwa, Pune (MS), on 22-24 Jan 2015.
4. V. J. Suryawanshi, L. S. Dhamande, “Crack detection technique in rotary shaft ” is presented and Published in the proceedings of National Conference on Recent Trends in mechanical Engineering, held at SRES College of Engineering, Kopergaon (MS), on 25th March 2013.
5. A. V. Dube, L. S. Dhamande, “Vibration Based condition assessment of rolling element Bearings in Time-frequency domain” is presented and Published in the proceedings of National Conference on Recent Trends in mechanical Engineering, held at SRES College of Engineering, Kopergaon (MS), on 25th March 2013.
6. L. S. Dhamande, “An overview of Condition Monitoring methods for detection of damage

in different Transmission system components” is presented and Published in the proceedings of National Conference on “Emerging Trends in Engineering and Technology, held at SRES College of Engineering, Kopargaon (MS), on 24-26 March 2012.

7. L. S. Dhamande, “Analytical, Numerical and Experimental study of hydrostatic journal bearing for test bench of grinding machine” is presented at regional research conference for Pune university college teachers Innovation-2009, Innovation -2010 and Innovation-2012 organised by University Of Pune, Pune during 21 -23 March 2012.
8. S. V. Bhaskar, L. S .Dhamande, “Tribological behavior of low friction surface coating materials” is presented and Published in the proceedings of National Conference on “Advances in Mechanical Engineering” held at Vasavi College of Engineering Imbrahimbagh, Hyderabad (AP.), on 18-19 November 2010
9. L. S. Dhamande, “Analytical and experimental study of hydrostatic journal bearings behavior for grinding machine ”is presented and Published in the proceedings of National Conference on “Advances in Mechanical Engineering” held at Vasavi College of Engineering Imbrahimbagh, Hyderabad (AP.), on 18-19 November 2010.
10. A. T. Talware, L. S .Dhamande, “Analytical and experimental investigation on forced convection solar drier”is presented and Published in the proceedings of National Conference on “Advances in Mechanical Engineering” held at Vasavi College of Engineering Imbrahimbagh, Hyderabad (AP.), on 18-19 November 2010.
11. L. S .Dhamande, “Analysis of Crashworthiness of Bus body structure using FEM.” is presented and Published in the proceedings of National Conference on “Innovations in Mechanical Engineering” held at J.T.Mahajan College of Engineering Faizpur, Jalgaon. (Mh.), during 29-30 March 2007.
12. L. S .Dhamande, “Recent Applications of CAD/CAM” is presented and published in Proceedings of National Conference YANTRA’00, held at Belgaum, Karnataka during 19-20 May 2000.

#### Research Profile URL

<b>Google Scholar</b>	<a href="https://scholar.google.com/citations?user=3j6VEc8AAAAJ&amp;hl=en&amp;authuser=1">https://scholar.google.com/citations?user=3j6VEc8AAAAJ&amp;hl=en&amp;authuser=1</a>
<b>Scopus</b>	<a href="https://www.scopus.com/authid/detail.uri?authorId=57190747593">https://www.scopus.com/authid/detail.uri?authorId=57190747593</a>
<b>Orcid</b>	: <a href="https://orcid.org/my-orcid?orcid=0000-0003-0382-7022">https://orcid.org/my-orcid?orcid=0000-0003-0382-7022</a>
<b>publons</b>	--

#### Books Published

Sr. No.	Title of Book	Publisher	ISBN No.
1	Design of Machine Elements,	Scientific International Publishing House	ISBN NO: 978-93-6674-378-3

#### Grants fetched

- **BCUD, SPPU, Pune Funded Project:** Completed successfully a project on “Analytic, numeric and experimental study of hydrostatic journal bearings performance for test bench of grinding machine”, **Funding amount Rs.1,50000.00, Year-2009-2011.**

#### Consultancy Activities

Sr. No.	Date	Name & Address	Workdone
1.	22/02/2013	Mr. Avahad Adinath :Genba Sopanrao Moze College of Engg., Pune	Friction and wear test on Pin on disc machine.

2.	04/02/2013	Mr. H. H. Patil : R.I.T. College, Islampur	Friction and wear test on Pin on disc machine.
3.	07/02/2013	Mr. Kulkarni S.S. :Rajarambapu Institute of Technology, Kolhapur	Friction and wear test on Pin on disc machine.
4.	08/04/2013	Prof. K.M. Bhuptani :Atmiya Institute of Technology & Science, Rajkot	Friction and wear test on Pin on disc machine.
5.	14/12/2013	Mr. Rane H.S :S.S.G.B. College of Engg., Bhusawal	Natural frequency of gear box cover using FFT Analyser
6.	14/12/2013	Mr. Bagul A.D. :S.S.G.B. College of Engg., Bhusawal	Natural frequency of healthy and cracked beam using FFT Ana.
7.	07/01/2014	Mr. Kadlag R.U :S.N.D. College of Engg., Yeola	Natural frequency of healthy and cracked beam using FFT Analyser
8.	10/01/2014	Mr. Y B. Patil :S.S.G.B. College of Engg., Bhusawal	Natural frequency of healthy and cracked beam using FFT Analyser
9.	10/02/2014	Mr. M.P.Badgujar :S.S.G.B. College of Engg., Bhusawal	Vibration analysis of Bearings using FFT Analyser
10.	25/02/2014	Mr. M. Ramjan : J.T. Mahajan ,COE, Faizpur	Vibration analysis of beams using FFT Analyser
11.	26/02/2014	Mr. M. M. Chavan :ADCET, Ashta, Sangali	Friction and wear test on Pin on disc machine.
12.	10/03/2014	Mr. Ajinkya S.Pisal :RIT,Sakhrale	Friction and wear test on Pin on disc machine.
13.	10/03/2014	Mr. Abhijit Suryawanshi :RIT,Sakharale	Friction and wear test on Pin on disc machine.
14.	09/05/2014	Mr. M. Ramjan : J.T. Mahajan , COE, Faizpur	Vibration analysis of Rubber Isolator using FFT Analyser
15.	03/06/2014	Mr. Amit Patil, SMIT, Polytechnic, Jalgaon	Natural frequency of healthy and cracked beam using FFT Analyser
16.	22/09/2014	Mr. Ashish Borhade :AVCOE,Sangamner	Natural frequency of healthy and cracked beam using FFT Analyser
17.	06/11/2014	Miss. Poonam Sonawane,: NDMVP,Nashik	Vibraion measurement using FFT Analyser
18.	08/04/2015	Mr. Vaibhav Jondhale: AVCOE, Sangamner	Natural frequency of healthy and cracked beam using FFT Analyser
19.	13/05/2015	Mrs. Archana Bhandwalkar : L.G.N.Sapkal COE,Nashik	Vibration analysis of Gear box
20.	04/06/2015	Mr. Pankaj D. Shinde : AVCOE, Sangamner	Surface finish testing
21.	30/06/2015	Miss.Toshita Dhande : MIT, Aurangabad	Determination of Natural frequency of wind mill blades using FFT Analyser
22.	15/07/2015	Mr. Kolhe M.P. : AVCOE,Sangamer	Natural frequency of healthy and cracked beam using FFT Ana.
23.	25/03/2015	Mr. Mhaske Rushikesh	Natural frequency of healthy and



		:SNJB College of Engg Chandwad	cracked propeller shaft using FFT Analyser
24.	01/04/2015	Mr. George Jinson : SSGB Bhusawal	Vibration analysis of composite isolator
25.	23/09/2015	SNJB College of Engg, Chandwad	Measurement and analysis of Noise of machines using FFT Analyser.
26.	04/04/2016	Mr. Jadhav Sandeep : SNJB College of Engg, Chandwad	Vibration analysis of Gear box
27.	03/10/2016 25/09/2017	MMANTC COE & T, Malegaon	Determination of Natural frequency of infinite degree of freedom system using FFT Analyser.
28.	07/01/2019	Mr. Dharmaraj Aher : Deogiri College of Engg. & Management, Aurangabad	Natural frequency of healthy and cracked beam using FFT Analyser.
29.	18/03/2019	Mr. Farquan Akhtar : MMANTC COE & T, Malegaon	To find damping coefficient of leaf spring
30.	29/07/2021	Mr. Nilesh S. Navagale : KBC, NMU, Jalgaon	Vibration analysis of composite beam

#### Awards

Nil

#### FACULTY DEVELOPMENT PROGRAMMES ATTENDED

Sr No	Organizing Institute	Name of event	Date/period
1.	NITTTR Bhopal	Curriculum design and development	5 days 6 Jan to 10 Jan 2025
2.	Sanjivani College of Engineering, Kopargaon and RSP Science hub, Coimbatore, Tamil nadu India	FDP: Innovative AI tools for research excellence: a hand on STTP for effective writing and data visualization	6 days 16 <sup>th</sup> Dec 2024 to 21 <sup>st</sup> Dec 2024
3.	Bharti Vidyapeeth College of Engineering for Women, Pune	Empowering Research and Innovation: Writing, Proposal Writing, and Patent Development	6 days 23-28/12/2024
4.	The University of Engineering & Management Jaipur, Rajasthan and Nirmala College, Muvattupuzha (Autonomous), Kerala	STTP: Outcome Based Education and Application of Generative AI in Teaching and Research,	1 Week 19 Sep 2024 to 28 Sep 2024
5.	Online course by centre for environment education	Online course: Living with climate change and water management	20 March 2024
6.	Punyashlok Ahilyadevi	<b>FDP:</b> Integrating skills in	5 days

	Holkar Solapur University, Solapur	curriculum	30 <sup>th</sup> Jan 2024 to 03 <sup>rd</sup> Feb 2024
7.	IFS Academy and Sanjivani College of Engineering, Kopergaon	<b>FDP:</b> Dassault systems Solidworks 2024 3D experience, hands on workshop on FEA/CFD/MBD/Solid modeling assignments	2 days 9-10/02/2024
8.	A. G. Patil Institute of Technology, Solapur	<b>FDP:</b> Research paper writing and IP Rights	3 days 18-20/01/2024
9.	D Y Patil College of Engineering Akurdi, Pune	<b>FDP:</b> Effective drafting of research paper and IPR	5 Days 18/12/2023 to 23/12/2023
10.	Sanjivani College of Engineering, Kopergaon	<b>FDP:</b> Inculcating Universal Human Values in Technical Education	3 Days 10-12/08/23
11.	Sanjivani College of Engineering, Kopergaon	<b>FDP:</b> Patent Drafting and Filing	5 Days 05 /06/2023 to 09/06/2023
12.	BVB's Sardar Patel College of Engineering, Mumbai	<b>FDP:</b> Analysis of Engineering Systems Using CREO	6 Days 15/10/2022 to 20/10/2022
13.	NITTTR, Chandigarh	<b>FDP:</b> Outcome Based Education	5 Days 19/09/2022 to 23/09/2022
14.	Zakir Husain College of Engineering & Technology, Delhi (ATAL)	<b>FDP:</b> Machinery Condition Monitoring	5 Days 10/01/2022 to 14/01/2022
15.	Manipal University Jaipur. (AICTE Training and Learning (ATAL) Academy)	<b>FDP:</b> Industrial Applications of Machine Learning and Artificial Intelligence	05 days 06/09/2021 to 10/09/2021
16.	National Institute of Technology Arunachal Pradesh. (ATAL)	<b>FDP:</b> Design Thinking and Product Development	05 days 23/08/2021 to 27/08/2021
17.	Veermata Jijabai Technological Institute, Mumbai (ATAL)	<b>FDP:</b> Damage Tolerance: A New Design Strategy	05 days 05-07-2021 to 09-07-2021
18.	Sardar Patel College of Engineering, Mumbai	National Level <b>Webinar</b> on 'Intelligent condition monitoring using Artificial Intelligence	19th October 2021
19.	Sanjivani College of Engineering	<b>FDP:</b> Strategies to improve R and D activities in Engineering Institutes	27/09/2021-01/10/2021
20.	Maratha Vidya Prasarak Samaj's Karmaveer Adv. Baburao Ganpatrao Thakare College of Engineering, Nashik	Three days online National Level Faculty Development Program ( <b>FDP</b> ) on 'Electric Vehicles: Present Status and Future Prospects'	06-08/05/2021



21.	Dr D Y Patil School of Engineering and Technology, Pune	One week <b>FDP</b> on Recent Advancement in AI & Robotics	25-29/04/2021 (Online)
22.	Dept. of MBA, Sanjivani College of Engineering, Kopergaon	<b>Webinar</b> on “National Education Policy 2020 with special reference to HEI’s”	10/04/2021
23.	Mastersoft ERP Solutions Pvt. Ltd, Nagpur	<b>Webinar</b> on “Articulating Course Outcomes, Program Outcomes and Mappings”	20/03/2021 (Online)
24.	Annasaheb Dange College of Engineering and Technology, Ashta	One week <b>STTP</b> on “Noise and Vibration Control of Industrial Rotary Machines”	15-20/03/2021 (Online)
25.	NBA, DTE, and COE, Pune	One day online <b>webinar</b> on “Outcome Based Education and Accreditation”	27/11/2020 (Online)
26.	SRM Institute of Science and Technology, Kattankulathur, Tamilnadu	Three days online <b>workshop</b> on “Rotor and Bearing Systems (RBS-2020”	24-26/11/2020 (Online)
27.	Indus Institute of Technology and Engineering, Indus University, Ahmedabad, Gujrat	Three days online <b>workshop</b> on “Metallurgical Failure Analysis of Engineering Components”	28-30/10/2020 (Online)
28.	Sanjivani College of Engineering, Dept. of MBA, Kopergaon	Faculty Development Programme ( <b>Webinar</b> ) on “ICT tools for Online Teaching”	26/5/2020 (Online)
29.	SNJB’s Late Sau. Kantabai Bhavarlalji Jain COE, Chandwad	Faculty Awareness ( <b>Webinar</b> ) Program on “NBA Accreditation Process”	18/5/2020 (Online)
30.	SNJB’s Late Sau. Kantabai Bhavarlalji Jain, COE, Chandwad	Online <b>workshop</b> on Smart Use of ICT Using WordPress (Blog Creation)	11/05/20 (Online)
31.	AVCOE, Sangamner	IOT Mechanical Engineering Perspective And Case Studies ( <b>webinar</b> )	15/05/2020 (Online)
32.	Department of Mechanical Engineering, Sanjivani College of Engineering, Kopergaon	<b>Webinar</b> on “Implementing OBE with effectively defining and Mapping CO, PO and PSO”	25/05/2020 (Online)
33.	Department of Production Engineering, AISSMS COE Pune	<b>Webinar</b> on "Genius Code-Science of PEAK Performance	26/05/2020 (Online)
34.	Mechanical Engineering Department, JSPM’s Jayawantrao Sawant COE, Hadapsar Pune -028.	Online International Faculty Awareness Program ( <b>FDP</b> )	11-15/5/2020 (Online)

35.	CAAST and CASWM, MPKV,Rahuri	Fundamentals of Drone Technology For Precision Agriculture ( <b>FDP</b> )	25-30/4/2020 (Online)
36.	CAAST and CASWM, MPKV,Rahuri	Fundamentals of Robotics For Precision Agriculture ( <b>FDP</b> )	26-30/5/2020 (Online)
37.	NITTTR, Kolkata	Short Term Training Programme ( <b>STTP</b> ) through ICT Mode on Refresher course on Analog & Digital Electronics	04-08/05/2020 (Online)
38.	Dept. of MBA, Sanjivani College of Engineering, Kopargaon	Integration of Moral values, Ethics, Behavioral science, and attitude towards outcome based education for new age Teachers ( <b>FDP</b> )	13 days (Two weeks)
39.	Sardar Vallabhbhai National Institute of technology, Surat	AICTE Training And Learning (ATAL) Academy Online <b>FDP</b> on "Augmented Reality (AR) / Virtual Reality (VR)"	18-22/05/2020 (Online)
40.	LTJSS's Priyadarshini Institute of Engineering and Technology, Nagpur	Innovaions and research in CAD/CAM and 3D Printing ( <b>FDP</b> )	22-27/04/2019
41.	Confederation of Indian Industries	Study tour on manufacturing excellence ( <b>Industrial Visit</b> )	21-22/02/2019
42.	SRES College of Engineering, Kopargaon	Three day <b>workshop</b> on 'Use of excel in Engineering Application'	12-14/12/2018
43.	JSPM's Jayawantrao Sawant College of Engineering, Pune	One day syllabus implemetation <b>workshop</b> on Dynamics of machinery	30/06/2018
44.	JSPM's Rajarshi Shahu Sawant College of Engineering, Pune	Two day State level <b>workshop</b> on Research Opportunities in Condition Monitoring and Fault diagnosis of Machine Tools.	8 – 9/09/2017
45.	N. Wadia Institute of Management studies and research, Pune.	Two days National level Conference on 'Achieving excellence in Higher education through accreditation.( <b>FDP</b> )	19-20/12/2016
46.	SRES College of Engineering, Kopargaon	Two days State level <b>workshop</b> on 'Introduction to Finite Element Method and Engineering Applications'	09-10/12/2016
47.	MIT, Pune	Three days <b>FDP</b> 'National Teachers congress'	23-25/09/2016
48.	SRES College of Engineering, Kopargaon	One day <b>workshop</b> on 'Virtual Lab'.	04/04/2016
49.	SRES College of Engineering, Kopargaon	Two days National level <b>FDP</b> on 'Finite Element method for Engineering Applications.	22-23/02/2016
50.	IIT Guwahati, Assam	TEQIP sponsored <b>STTP</b> on	16-18/12/2015

		‘Rotor Dynamics: Theory and Practice’	
51.	SRES College of Engineering, Kopargaon	One week <b>STTP</b> on ‘Design of Experiments and optimization techniques(DOE-OT-15)’	01-05/06/2015
52.	SRES College of Engineering, Kopargaon	One day <b>workshop</b> on ‘Nano composite Materials- A research Horizon’	25/02/2015
53.	G.H.Patel College of Engineering and Technology, Vallabh Vidyanagar,Gujarat	One week <b>STTP</b> on ‘Dynamic analysis of Mechanism and Machine’	05-09/01/2015
54.	KCT’s Late G. N. Sapkal College of Engineering, Nashik	Two days National level <b>workshop</b> on ‘Machine Condition Monitoring & Fault Diagnostics’	26-27/12/2014
55.	P. Dr. D. Y. Patil Institute of Engineering & Technology, Pimpri, Pune	One day <b>workshop</b> on ‘Teaching methodology of subject Design of Machine Elements-II’	22/12/2014
56.	SRES College of Engineering, Kopargaon	One day <b>seminar</b> on ‘MATLAB and simulink in Engineering Education.	05/11/ 2014
57.	SRES College of Engineering, Kopargaon	Two days <b>workshop</b> on ‘Applications of Neural Network, Fuzzy Logic and Genetic Algorithm in Engineering’	08-09/04/2014
58.	SRES College of Engineering, Kopargaon	Three days <b>Faculty development program</b> on ‘Professional Skills’	01-03/04/2014
59.	S.V. National Institute of technology, Surat	One week <b>STTP</b> on ‘Advanced Engineering Optimization through Intelligent Techniques’	24-28/03/2014
60.	K. J. Sommaya College of arts and Science	One day <b>workshop</b> on Value Education	14/03/2014
61.	S.R.E.S.College of Engg., Kopargaon	One day <b>workshop</b> on ‘Lab practice Teaching Methodologies for Material science and Metallurgy.’	27/01/2014
62.	S. S. G. B. College of Engineering and Technology, Bhusawal.	One week <b>STTP</b> on ‘Matlab Fundamentals and applications’	22-27/04/13
63.	S.V. National Institute of technology,Surat	One week <b>STTP</b> on ‘Finite element modeling with Matlab’	06-10/05/2013
64.	S.V. Institute of Technology, chincholi, Nashik	Two days <b>workshop</b> on ‘Vibration Noise Measurement & Control using FFT Analyser’	15-16/03/2013
65.	S.V. National Institute of	Two days <b>workshop</b> on	12-13/05/2012

	technology, Surat	'Advanced finite element methods-Theory and applications'	
66.	Sinhgad Academy of Engineering, Kondhawa.	One week <b>staff development program</b> on 'Research methodology for innovative research in mechanical Engineering.	16-21/04/2012
67.	MIT College of Engineering, Pune.	Two days <b>workshop</b> on 'Vibration Diagnostics and condition monitoring of Machine Elements 2011'	07-08/11/2011
68.	Sinhgad Institute of Technology, Lonavala.	Two days State level <b>workshop</b> on Industrial Fluid power and its Applications	14-15/02/2012
69.	SRES College of Engineering, Kopergaon.	One Day <b>workshop</b> on Effective Research Methodology.	31/01/2010
70.	Army Institute of Technology, Pune.	One Day <b>workshop</b> on Revision of syllabi: Design Engineering group subjects at third & final year of Mechanical Engineering.	16/11/2009
71.	VIIT, Pune	Three days <b>workshop</b> on Role of Engineers in Rural Development.	03-05/08/2009
72.	S.R.E.S.College of Engg., Kopergaon	<b>Five days workshop</b> on Mission 10X- High Impact Teaching Skills" held during, organized by SRES College of Engineering Kopergaon.	11- 15/05/2009
73.	Amrutvahini College of Engineering Sangamner.	One day <b>workshop</b> on Detailing of Syllabus of Strength of Machine Elements, SE Mechanical.	28/01/2009
74.	PDP College, Pravaranagar, Dist: Ahmednagar.	One day <b>workshop</b> on University level project competition AVISHKAR-2007.	25/11/2007
75.	P.V.G.College of Engg.	Two days <b>workshop</b> on MECHATRONICS Hands on Training Program.	24-25/08/2007
76.	S.R.E.S.College of Engg. , Kopergaon.	Three days <b>Workshop</b> on Autodesk INVENTOR 11.	5 – 7/01/2007
77.	ARAI, Pune.	One Day <b>workshop</b> on System Integration for vehicle Crashworthiness.	25/04/2006
78.	SRES College of Engineering, Kopergaon.	Two days <b>workshop</b> on Soft computing tools in Engineering.	08-09/04/2006
79.	SRES, College of Engineering Kopergaon.	One day <b>workshop</b> on Finalisation Of Revised Syllabus (2003) Of Thermal Engineering	17/02/2004

		Subjects At SE/TE/BE (Mechanical Engineering.	
<b>FACULTY DEVELOPMENT PROGRAMMES ORGANIZED</b>			
<b>Sr No</b>	<b>Name of event</b>	<b>Date/period</b>	
1.	International conference on Recent trends in computing, ICRTC 2025	25-26/04/2025	
2.	One day workshop on “Training supporting staff for NBA accreditation	25/03/2023	
3.	FDP on “Research Opportunities in Vibration Engineering-2023”	04-08/04/2023.	
4.	Capsule course on Analysis of Engineering Systems Using CREO	13-20/11/2022	
5.	FDP on “Research Opportunities in Vibration Engineering”	24-29/01/2022	
6.	Webinar on “ Industrial Design Practices-An Overview”	07/01/2022	
7.	Webinar on “ Automotive Seating Systems”	16/10/2022	
8.	Webinar on “Outcome Based Education” by Dr. U. S. Malik	7, Aug. 2020	
9.	Three day workshop on “Implementation of Outcome Based Education in context of NBA”	17-19 July 2020	
10.	Three day capsule course on Use of excel in Design for Engineering Application.	30 Aug- 01 Sep. 2018	
11.	Three day Mentor orientation programme for faculty of Sanjivani College of Engineering	8 <sup>th</sup> -10 <sup>th</sup> June 2017	
12.	One day State level workshop on Condition monitoring of Rotating Machinery using Vibration Analysis.	6 <sup>th</sup> Octo. 2016	
13.	Tech-Fest-2016	9-10, Sep. 2016	
14.	One day workshop on Condition monitoring of machine components using FFT Analyser.	31 <sup>st</sup> July 2015	
15.	One day workshop on Use of Excel in Engineering Applications	10 <sup>th</sup> March 2015	
16.	A Two days National level workshop on ‘Design of Machine Elements with standard practices used in design office.’	02 <sup>nd</sup> -03 <sup>rd</sup> January 2015	
17.	One day workshop on Lab Practices of Hydraulics and Pneumatics Practicals.	06 <sup>th</sup> September 2014	
18.	A Two days National level workshop on ‘Condition Monitoring of Machine Elements Using FFT Vibration Analyser’	12 <sup>th</sup> -13 <sup>th</sup> July, 2013	
19.	Seminar on topic ‘Reformation Indian Economy’ (Arthkranti)	16 <sup>th</sup> Sep. 2014	
20.	A one week Personality Development Program for Students	10-15 <sup>th</sup> Sep. 2014	
21.	One day workshop on Awareness of important laws related to students such as Anti ragging, Cyber law	23 <sup>rd</sup> Aug. 2014	
22.	Seminar on topic ‘Role of youth in Building National economy’	24 <sup>th</sup> Feb., 2014	
23.	One day Workshop on topic ‘Personality development and Hypnotism’	01 <sup>st</sup> Jan., 2014	

24.	Seminar on topic ‘Youth Power’	16 <sup>th</sup> Jan., 2013	
25.	Seminar on topic ‘Wonders of Attitude’	08 <sup>th</sup> Sept., 2012	
26.	Workshop on topic ‘Stress Management’	03 <sup>rd</sup> Feb., 2012	
27.	Seminar on topic ‘Personality development’	19 <sup>th</sup> Jan., 2012	
<b>INVITED LECTURES IN CONFERENCE/SEMINAR</b>			
<b>Sr No</b>	<b>Organizing institute</b>	<b>Name of event</b>	<b>Date/period</b>
1.	K.B.P.Polytechnic, Kopargaon	Expert for Sanjivani Techmantra 2k25	18/03/2025
2.	K.B.P.Polytechnic, Kopargaon	Expert Lecture: Basics of Vibration	05/03/2025
3.	SRES College of Engineering, Kopargaon	FDP on Research Opportunities in Vibration Engineering-2023”	06/04/2023
4.	SRES College of Engineering, Kopargaon	One day workshop on :Training supporting staff for NBA accreditation.	25/03/2023
5.	SRES College of Engineering, Kopargaon	FDP on Research Opportunities in Vibration Engineering	29/01/2022
6.	ZEAL COE and R, Pune	Expert Lecture: Vibration and Noise Measurement	29/09/2021
7.	PDPVP,COE, Ahmednagar	Webinar on “Design by excel” under FDP product design and novelty	09/06/2020
8.	VIT Pune	STTP Advanced Measurement Techniques Expert Lecture: Condition Monitoring using vibration analysis.	23-28/11/2020
9.	VIT Pune	STTP Advanced Measurement Techniques Expert Lecture: Condition Monitoring using vibration analysis.	07-12/12/2020
10.	SRES College of Engineering, Kopargaon	Three day workshop on “Implementation of Outcome Based Education in context of NBA”	17-19/07/2020
11.	SRES College of Engineering, Kopargaon	Lecture on how to write CO and CO-PO mapping	Feb 2020
12.	M. M. C.O.E. ,Malegaon	Expert Lecture: Vibration and Noise Measurement.	01 <sup>st</sup> ,Octo.2016
13.	AVCOE, Sangamner	Expert Lecture: Mechanical Vibration.	20 <sup>th</sup> Sep.2016
14.	K. K. Wagh, COE Nashik	As a NBA Resource person	01 <sup>st</sup> Feb. 2016
15.	SNJB,COE,Chandwad	Expert Lecture: Vibration and Noise Measurement.	23 <sup>rd</sup> ,Sep,2015
16.	AVCOE, Sangamner	Expert Lecture: Vibration and	22 <sup>d</sup> Sep.2015

		Noise Measurement.	
17.	SRES College of Engineering, Kopargaon	Expert Lecture: Condition monitoring of machine components using FFT analyser.	31 <sup>st</sup> July 2015
18.	SRES College of Engineering, Kopargaon	Expert Lecture: Use of Excel in Engineering Applications	04 <sup>th</sup> March 2015
19.	SRES College of Engineering, Kopargaon	Expert Lecture: Design of Two Stage gear box, Design for assembly and manufacture	03 <sup>rd</sup> Jan 2015
20.	SRES College of Engineering, Kopargaon	Expert Lecture: Lab practices of Hydraulic circuits.	06 <sup>th</sup> September 2014
21.	S.N.D. College of Engineering & Research centre, Babhulgaon, Tal-Yeola, Dist: Nashik	Expert Lecture: Advanced Mechanical Vibration measurement	05 <sup>th</sup> of April 2014
22.	Sandip foundation's S.I.T.& R.C., Nashik.	Expert Lecture: Design of Bearings and Two stage Gear Box.	07 <sup>th</sup> of March, 2013
23.	Matoshri Institute of Technology, Dhanore, Tal-Yeola, Dist –Nasik	Expert Lecture: Automobile component Design	11 <sup>th</sup> of Sep., 2012
24.	S.N.D.Polytechnic Yeola, Dist: Nashik.	Expert Lecture : Industrial fluid Power and its Applications	11 <sup>th</sup> of March, 2010
<b>OTHER Professional URLs</b>			
<b>Personal Website</b>	Isdhamande.wordpress.com		
<b>Linked In Profile</b>	--		
<b>GitHub URL</b>	--		
<b>YouTube Channel</b>	<a href="https://www.youtube.com/@learnengineeringbydr.laxmi3800">Learn Engineering by Dr. Laxmikant - YouTube</a> <a href="https://www.youtube.com/@learnengineeringbydr.laxmi3800">https://www.youtube.com/@learnengineeringbydr.laxmi3800</a>		
<b>Other</b>			