


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

Staff Profile

Personal Information			
Name of Teaching Staff: LAXMIKANT SHANKARRAO DHAMANDE			
Designation: Associate Professor			
Department : Mechanical Engineering			
Date of joining : 24/11/2003			
E Mail ID :	dhamandelaxmikantmech@sanjivani.org.in		
Contact No:	9404319427		
Education Details			
Qualification	Specialization with Class or Grade	University	Year
UG	B.E. Mechanical, First Class with Distinction	Dr. B. A. M. Univ. Aurangabad	2000
PG	Design Engineering	S. P. Pune University, Pune	2007
Ph.D	Mechanical Engineering	S. P. Pune University, Pune	2019
Total experience in years:			
Teaching:	18 years		
Industry:	2.5 years		
Research and Publications			
<ol style="list-style-type: none"> 1. <u>Laxmikant S. Dhamande</u>, Mangesh B. Chaudhari, “Compound Gear-Bearing Fault Feature Extraction Using Statistical Features Based on Time-Frequency Method”, Measurement, 125 (2018) 63-77. 2. Sachin D. Dere, <u>Laxmikant Dhamande</u>, “Rotor bearing system FEA analysis for misalignment”, IJARIII, 3(4), (2017),2102-2112. (ISSN-2395-4396). 3. J. S. Mahajan, <u>L. S. Dhamande</u>, “Review: Design of Passive Composite Isolation System For Machine Foundaion”, International Journal of Advance Engineering and Research Development, 4(5), (2017),1111-1114. 			

4. 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.
5. Laxmikant S. Dhamande, Mangesh B. Chaudhari, "Detection of combined gear bearing fault in single stage spur gear box using Artificial Neural Nework", Procedia Engineering 144 (2016), 759-766. doi:10.1016/j.proeng.2016.05.082
6. 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.
7. 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.
8. V. P. Bhourkar, 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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
15. 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.
16. 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 conferences:

A. National Conference

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, Kopargaon (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, Kopargaon (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.

B. International Conference

1. Laxmikant S. Dhamande, Mangesh B. Chaudhari, “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.
2. 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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.

9. 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.
10. 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.
11. 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.
12. 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.
13. 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.

Research Profile URL

Google Scholar	https://scholar.google.com/citations?user=3j6VEc8AAAJ&hl=en
Scopus	https://www.scopus.com/authid/detail.uri?authorId=57190747593
Orcid	

Other Research Details

Ph D Guide ?Give field & University:	-
Ph Ds/ Projects Guided:	-
Books Published	-
IPRs/Patents	-
Professional Memberships:	ISTE, IE
Interaction with professional institutions	-

Consultancy Activities

Duration	Title of Activity	Issued Organization	Amount
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Grants fetched			
Duration	Title	Issued Organization	Amount
2016-17	one day workshop on “Condition monitoring of rotating machinery using Vibration analysis”	BCUD, SPPU, Pune	60000=00
Awards			
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FACULTY DEVELOPMENT PROGRAMMES ATTENDED			
Name of the FDP / Workshop	Organization	Duration	Month-Year
FDP:"Machinery Condition Monitoring	Zakir Husain College of Engineering & Technology, Delhi (ATAL)	5 Days 10/01/2022 to 14/01/2022	
FDP: Industrial Applications of Machine Learning and Artificial Intelligence	Manipal University Jaipur. (AICTE Training and Learning (ATAL) Academy)	05 days 06/09/2021 to 10/09/2021	
FDP: Design Thinking and Product Development	National Institute of Technology Arunachal Pradesh. (ATAL)	05 days 23/08/2021 to 27/08/2021	
FDP: Damage Tolerance: A New Design Strategy	Veermata Jijabai Technological Institute, Mumbai (ATAL)	05 days 05-07-2021 to 09-07-2021	
National Level Webinar on ‘Intelligent condition monitoring using Artificial Intelligence	Sardar Patel College of Engineering, Mumbai	1 Day 19th October 2021	
Strategies to improve R and D activities in Engineering Institutes	Sanjivani College of Engineering	5 Days,27/09/2021- 01/10/2021	
Three days online National Level Faculty Development Program on ‘Electric	Maratha Vidya Prasarak Samaj’s Karmaveer Adv. Baburao Ganpatrao	3 Days, 06-08/05/2021	

Vehicles: Present Status and Future Prospects'	Thakare College of Engineering, Nashik	
One week FDP on Recent Advancement in AI & Robotics	Dr D Y Patil School of Engineering and Technology, Pune	5 days, 25-29/04/2021
Webinar on "National Education Policy 2020 with special reference to HEI's"	Dept. of MBA, Sanjivani College of Engineering, Kopargaon	1 day, 10/04/2021
Webinar on "Articulating Course Outcomes, Program Outcomes and Mappings"	Mastersoft ERP Solutions Pvt. Ltd, Nagpur	1 day, 20/03/2021
One week STTP on "Noise and Vibration Control of Industrial Rotary Machines"	Annasaheb Dange College of Engineering and Technology, Ashta	5 Days, 15-20/03/2021
One day online webinar on "Outcome Based Education and Accreditation"	NBA, DTE, and COE, Pune	1 day, 27/11/2020
Three days online workshop on "Rotor and Bearing Systems (RBS-2020)"	SRM Institute of Science and Technology, Kattankulathur, Tamilnadu	3 Days, 24-26/11/2020
Three days online workshop on "Metallurgical Failure Analysis of Engineering Components"	Indus Institute of Technology and Engineering, Indus University, Ahmedabad, Gujrat	3 Days, 28-30/10/2020
Faculty Development Programme (Webinar) on "ICT tools for Online Teaching"	Sanjivani College of Engineering, Dept. of MBA, Kopargaon	1 Day, 26/5/2020
Faculty Awareness (Webinar) Program on "NBA Accreditation Process"	SNJB's Late Sau. Kantabai Bhavarlalji Jain COE, Chandwad	1 Day, 18/5/2020

Online workshop on Smart Use of ICT Using WordPress (Blog Creation)	SNJB's Late Sau. Kantabai Bhavarlalji Jain, COE, Chandwad	1 Day, 11/05/20
IOT Mechanical Engineering Perspective And Case Studies (webinar)	AVCOE, Sangamner	1 Day, 15/05/2020
Webinar on "Implementing OBE with effectively defining and Mapping CO, PO and PSO"	Department of Mechanical Engineering, Sanjivani College of Engineering, Kopargaon	25/05/2020
Webinar on "Genius Code- Science of PEAK Performance	Department of Production Engineering, AISSMS COE Pune	26/05/2020

FACULTY DEVELOPMENT PROGRAMMES ORGANIZED

Name of the FDP / Workshop	Organization	Duration	Month- Year	Capacity
FDP on "Research Opportunities in Vibration Engineering"	SRES's Sanjivani College of Engineering	6 Days	24- 29/01/2022	56
Webinar on " Industrial Design Practices-An Overview"	SRES's Sanjivani College of Engineering	1 Day	07/01/2022	74
Webinar on " Automotive Seating Systems"	SRES's Sanjivani College of Engineering	1 Day	16/10/2022	60
Webinar on "Outcome Based Education" by Dr. U. S. Malik	SRES's Sanjivani College of Engineering	1 Day	7, Aug. 2020	100
Three day workshop on "Implementation of Outcome Based Education in context of	SRES's Sanjivani College of Engineering	3 Days	17-19 July 2020	30

NBA”				
Three day capsule course on Use of excel in Design for Engineering Application.	SRES’s Sanjivani College of Engineering	3 Days	30 Aug- 01 Sep. 2018	-
Three day Mentor orientation programme for faculty of Sanjivani College of Engineering	SRES’s Sanjivani College of Engineering	3 Days	8 th -10 th June 2017	-
One day State level workshop on Condition monitoring of Rotating Machinery using Vibration Analysis.	SRES’s Sanjivani College of Engineering	1 Day	6 th Octo. 2016	-
Tech-Fest-2016	SRES’s Sanjivani College of Engineering	2 Days	9-10, Sep. 2016	-
One day workshop on Condition monitoring of machine components using FFT Analyser.	SRES’s Sanjivani College of Engineering	1 Day	31 st July 2015	-
One day workshop on Use of Excel in Engineering Applications	SRES’s Sanjivani College of Engineering	1 Day	10 th March 2015	30
A Two days National level workshop on ‘Design of Machine Elements with standard practices used in design office.’	SRES’s Sanjivani College of Engineering	2 Days	02 nd -03 rd January 2015	70
One day workshop on Lab Practices of Hydraulics and Pneumatics Practicals.	SRES’s Sanjivani College of Engineering	1 Day	06 th September 2014	30
A Two days National level workshop on ‘Condition Monitoring of Machine Elements Using FFT Vibration Analyser’	SRES’s Sanjivani College of Engineering	2 Days	12 th -13 th July, 2013	40

INVITED LECTURES IN CONFERENCE/SEMINAR

Title of Lecture/ Academic Session	Title of Conference/ Seminar etc.	Organized By
Condition monitoring using Machine Learning	FDP on Research Opportunities in Vibration Engineering	SRES College of Engineering, Kopargaon
Vibration and Noise Measurement	Expert Lecture: Vibration and Noise Measurement	ZEAL COE and R, Pune
Design by excel	Webinar on “Design by excel” under FDP product design and novelty	PDPVP,COE, Ahmednagar
Condition Monitoring using vibration analysis.	STTP Advanced Measurement Techniques	VIT Pune
Condition Monitoring using vibration analysis.	STTP Advanced Measurement Techniques	VIT Pune
Vision Mission of Department and Institute, CO + PO Mapping	Three day workshop on “Implementation of Outcome Based Education in context of NBA”	SRES College of Engineering, Kopargaon
How to write CO and CO-PO mapping	Lecture on how to write CO and CO-PO mapping	SRES College of Engineering, Kopargaon
Vibration and Noise Measurement.	Expert Lecture: Vibration and Noise Measurement.	M. M. C.O.E., Malegaon
Mechanical Vibration.	Expert Lecture: Mechanical Vibration.	AVCOE, Sangamner
NBA Guidelines	Workshop on NBA	K. K. Wagh, COE Nashik
Vibration and Noise Measurement.	Expert Lecture: Vibration and Noise Measurement.	SNJB,COE,Chandwad
Vibration and Noise Measurement.	Expert Lecture: Vibration and Noise Measurement.	AVCOE, Sangamner

Condition monitoring of machine components using FFT analyser.	Expert Lecture: Condition monitoring of machine components using FFT analyser.	SRES College of Engineering, Kopargaon
Use of Excel in Engineering Applications	Expert Lecture: Use of Excel in Engineering Applications	SRES College of Engineering, Kopargaon
Design of Two Stage gear box, Design for assembly and manufacture	Expert Lecture: Design of Two Stage gear box, Design for assembly and manufacture	SRES College of Engineering, Kopargaon
Lab practices of Hydraulic circuits.	Expert Lecture: Lab practices of Hydraulic circuits.	SRES College of Engineering, Kopargaon
Advanced Mechanical Vibration measurement	Expert Lecture: Advanced Mechanical Vibration measurement	S.N.D. College of Engineering & Research centre, Babhulgaon, Tal-Yeola, Dist: Nashik
Design of Bearings and Two stage Gear Box.	Expert Lecture: Design of Bearings and Two stage Gear Box.	Sandip foundation's S.I.T.& R.C., Nashik.
Automobile component Design	Expert Lecture: Automobile component Design	Matoshri Institute of Technology, Dhanore, Tal-Yeola, Dist –Nasik
Industrial fluid Power and its Applications	Expert Lecture : Industrial fluid Power and its Applications	S.N.D.Polytechnic Yeola,Dist: Nashik.

OTHER Professional URLs	
Personal Website	https://wordpress.com/view/lsdhamande.wordpress.com
Linked In Profile	https://www.linkedin.com/in/dr-laxmikant-dhamande-29528543/
GitHub URL	

YouTube Channel	https://www.youtube.com/channel/UC3LkJlsxOWoYoPlu-cHR9eQ
Other	

Any Other: