BIO-DATA



1.	Nama			VISUAL CAND				
	Name			DR. VISHAL GANPATRAO SALUNKHE				
2.	Designation			Assistant Professor				
3.	Residentia	Addres		ankhurd, Navi Mur	nbai. 40070	09		
4.	Date of bir	th	24 ^t	^h June				
5.	Total Expe	erience	10	yrs				
	Teaching		10	yrs				
6.	Qualifications							
	Exam	Year	Institu	stitution/ University Branch/Sp			oecialization	
	Passed							
	PhD	2022	Shiv	zaji University, Kolhapur	Mechanical Engineering			
	M.E.	2015		DCET, Shivaji ersity, Kolhapur	Mechani	echanical- Design Engineering		
	B.E.	2012	Govt. K	College of Engg. arad, Shivaji ersity, Kolhapur	hanical Engineering			
7.	Employme	nt Reco		ersity, Romapur				
	Institution			Year Designation			gnation	
				(From	To)			
	Fr. C. Rodrigues Instit		nstitute	$\begin{array}{c} \text{Assidue} \\ 14/12/2022 \text{ to till date} \end{array} \right \begin{array}{c} \text{Assidue} \\ \text{Assidue} \\ \end{array}$		Assistant I	tant Professor	
	ADCET			16/06/2014 to 13/12/2022		Assistant Professor		
8.	Undergraduate / Postgraduate Teaching Experience and Subjects Taught						s Taught	
	Subjects Taught at UG level							
	Sr.No. N	Name of Subject					Semester	
	1.Kinematics of2.Material Scient			f Machines nce & Metallurgy			III	
							III	
	3. A	pplied H	Iydrauli	cs & Pneumatics			VI	
	4. N	Ietal Cut	tting & T	Fool Design			VII	
	5. Manufacturing Technol			chnology	nology			
	5. N	Tanufact		,ennere gy				
		mart Ma					VII	

	8.	Composite M	laterials						V	III	
	Subjects Taught at PG level										
	Sr.No.	Name of Sub	ject						Se	emester	
9.	Researc	ch Experience									
10.	Researc	h Funding / C	onsultancy	Services:							
	Sr.No.	Name of the Company	Address	Product		ons ervi	ulting	Consult Fees	ing	Period	
	1.	TATA Power	Trombay		V	ibra	ation	-		2023-24 (On- going)	
	Research Grants:										
	Sr. No.	Name of Funding Organization	Type of Grant	Amount (Rs.)	Year		ear	Name of Research Project			
	1.	Shivaji University, Kolhapur	Research Initiation Scheme	80,000/-		2017- 19 of Dynar Characte Rolling Bearing Dimensio		nenta mic erist Ele Usi iona s ane	al Studies ics of ement ng l d Support		
	2.	FCRIT	ILRF	2,00,000/-		20 25	24 -	Fault Diagnosis of Gearbox and Rol Element Bearing Using Dimension Analysis and Sup Vector Machines with Motor Load Variation		d Roller aring nsion d Support hines	
	Technical Collaboration / Lab Funding with Industries										
	Sr.	Name of the F	Funding	Type of		Amount (Rs.)		Ye	ar		
	No.	Organization		Support							
1.	1. (onal Societies Council of Vib Fribology Soci	ration Spe	cialists -(SM	1L-	220	00198)				
2.	Achieve	ements / Awaro	ds / Positio	n							
		eived 2nd rank e 2018.	c of PhD P	ET Entrance	e Ex	xan	n Shiva	iji Unive	rsity	, Kolhapu	

		ceived 2nd rank for M.E. Design Engineering in Sholhapur June 2015.	uvaji Universit						
3.	Project	ts guided in UG/PG level : 8 UG							
4.	Short Term Training Programmes attended :								
	Sr. No.	Theme/Title of the STTP/ Workshop/ Seminars	Date & Duration						
	1.	One week STTP on "Mechanics of Fibrous Composites" held at ADCET, Ashta.	23 rd -27 th June 2014						
	2.	One week STTP on "MATLAB Based Numerical Methods for Engineers" held at ADCET, Ashta.	24 th – 28 th Nov 2014						
	3.	One week STTP on "Recent Trends In Design, Failure Analysis & Maintenance of Bearing" held at JJMCOE, Jaysinpur.	22 nd – 26 th June 2015						
	4.	One Day workshop on "Teaching Methodology for Third Year Mechanical & Automation Engineering Revised Syllabus", ADCET, Ashta.	24 th August 2015						
	5.	Intellectual Property Rights (IPR), ADCET, Ashta.	15 th Oct 2015						
	6.	FDP on "Vibration Measurement and Analysis" under lead college activity of Shivaji University, Kolhapur.	31 st Oct -1 st Nov2015						
	7.	One week STTP on "Applied Mathematical Modeling & Soft Computing Tools For The Analysis of Vibrations in Rotating Machineries" held at ADCET, Ashta	21 st – 25 th Dec 2015						
	8.	One day "E – Resource Awareness Workshop organized by Springer at ADCET, Ashta.	4 th Dec 2015						
	9.	One week STTP on "Optimization for Engineering Design" Centre for Continuing Education held at IIT, Madras.	26 th Sep-1 st Oct 2016						
	10.	One week STTP on "Tribology in Design" Centre for Continuing Education held at IIT, Madras.	7 th Nov – 12 th Nov 2016						
	11.	One week STTP on "Introduction to PLC & SCADA Programming" held at ADCET, Ashta.	13 th -18 th Feb 2017						
	12.	One week STTP on "E-Mobility and Innovations in Sheet Metal Forming", Quality Improvement program held at IIT, Bombay.	3 rd -7 th Oct 2017						
	13.	One week STTP on "Vibro-acoustics", Quality Improvement program held at IIT, Bombay.	4 th -8 th Dec 2017						
	14.	One Day Faculty Development Program on teaching Methodology for the course Noise & Vibration" held at ADCET, Ashta	17 th March 2018						
	15.	One week STTP on "Machining Dynamics", Quality Improvement program held at IIT, Kanpur.	15 th -19 th Oct. 2018						
	16.	Three Day course on "Research and Development in Condition Monitoring of Rotating Machines", IIT Indore.	10 th -12 th Dec. 2018						
	17.	One week virtual STTP on "Structural Dynamics" organized by IIT, Kharagpur.	12 th -18 th Oct. 2020						
	18.	Five days webinar series "Researches in Surface Engineering for Reliable Tribology" organized by Department of Mechanical Engineering, GIMT Guwahati, sponsored by the collaborative research Scheme of Assam Science and Technology University (ASTU), under TEQIP-III.	1 st -5 th Sept. 2020						
	19.	AICTE Training And Learning (ATAL) Academy	21 st -25 th						

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		Online FDP on "Artificial Intelligence and Machine	Sept. 2021
		Learning Applications in Biomedical Engineering" at	
		University BDT College of Engineering	
	20.	AICTE Training And Learning (ATAL) Academy	14 th -18 th
		Online FDP on "3D Printing & Design" at Bharati	Sept. 2021
		Vidyapeeth College of Engineering Khargar, Navi-	
		Mumbai.	
	21.	One week STTP on "Recent Advances Tribology and	12 th -17 th Oct.
		Surface Engineering": series 3 of 4 – Introduction to	2021
		Special Topics like Nanotribology, Biotribology, Space	_0_1
		Tribology, Biomimetics and Tribology in Industry at	
		Saintgits College of Engg. Kottayam, Kerala.	
	22.	One week STTP on "Recent Advances Tribology and	23 rd -28 th Nov.
	22.		
		Surface Engineering": series 4 of 4 – Surface	2021
		Characterization and Treatments in Tribology at	
		Saintgits College of Engg. Kottayam, Kerala.	
	23.	One week STTP on "Recent Advances Tribology and	14 th - 19 th
		Surface Engineering": series 2 of 4 – Tribology of	Sept. 2021
		Machine Components and applied tribology, during 14-	
		19 September 2020 at Saintgits College of Engg.	
		Kottayam, Kerala.	
	24.	One week Online Faculty Development Programme on	25 th -30 th Oct.
		"Intellectual Property Rights" organized by E&ICT	2021
		Academy IIT Guwahati held in association with	
		Annasaheb Dange College of B Pharmacy(ADCBP) and	
		Annasaheb Dange College of Engineering and	
		Technology(ADCET).	
	25.		26 th June - 1 st
	20.	"Advance Maintenance Practices and Vibration	July 2023
		Diagnostics" organized by Council of Vibration	July 2025
		Specialists Mumbai in association with Fr. C. Rodrigues	
		1	
	26	Institute of Technology, Vashi, Navi-Mumbai.	4 th -9 th Dec.
	26.	AICTE Training And Learning (ATAL) Academy FDP	. ,
		on Digital Twin-Based Predictive Maintenance	2023
		Approach for Industry 4.0 Using Machine Learning	
		Techniques at Veermata Jijabai Technological Institute,	
		Matunga, Mumbai	, oth o and
	27.	One week STTP on "Pedagogical Strategies for	18 th -23 rd
		Effective Teaching Learning" held at FCRIT, Vashi	Dec. 2023
	28.	One Day Research Facility Training Programme under	3 rd May 2024
		SERB-DST Project titled "Detection of Damage in	
		Insulated Pipes using Linear Characteristics of	
		Ultrasonic guided Waves" held at IIT, Bombay	
15.	List of .	Journal Papers Published	
	1 Colu	nkho V C Decevele P C Khot S M and Vely	\mathbf{v}_{2} N D 2024
		inkhe, V. G., Desavale, R. G., Khot, S. M., and Yelv	
		ntification of Bearing Clearance in Sugar Centrifuge U	
		ory and Support Vector Machine on Vibration Measure	
	ASN): pp.021003.
	https	s://doi.org/10.1115/1.4064613	
	• • • •		
		aav, P. S., Salunkhe, V. G., Desavale, R. G., Khot, S., Shino	
		A., and Gadyanavar, P. R., 2024, "Identification and Fa	U
		ing Element Bearings Using Dimension Theory and M	-
	Tecl	nniques." ASME. J. Tribol. doi: https://doi.org/10.1115/1.4	065335
	3. Salu	nkhe, V. G., Khot, S. M., Desavale, R. G., and Yelv	ve, N. P., 2023,

	"Unbalance Bearing Fault Identification Using Highly Accurate Hilbert–Huang Transform Approach." ASME J Evaluation. https://doi.org/10.1115/1.4062929JNondestructive
4.	Salunkhe V.G., Desavale R.G., Khot S.M.,Yelve N.P., 2023, "A Novel Incipient Fault Detection Technique for Roller Bearing Using Deep Independent Component Analysis and Variational Modal Decomposition", ASME , <i>Journal of Tribology</i> . https://doi.org/10.1115/1.4056899
5.	Raut A.S., Khot S.M., Salunkhe V.G., 2023, "Optimization of Geometrical Features of Spur Gear Pair Teeth for Minimization of Vibration Generation", <i>Springer, Journal of Vibration Engineering & Technologies</i> . https://doi.org/10.1007/s42417-023-00857-0
6.	Salunkhe V.G., Desavale R.G., Kumbhar S.G., 2021, "Vibration Analysis of Rolling Bearing Using Finite Element Method And Dimension Analysis ", ASME , <i>Journal of Tribology</i> . https://doi.org/10.1115/1.4053262
7.	Salunkhe V.G., Desavale R.G., T. Jagadeesha., 2021, "Experimental Frequency-Domain Vibration Based Fault Diagnosis of Roller Element Bearings using Support Vector Machine", ASME, ASCE-ASME Journal of <i>Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> . https://doi.org/10.1115/1.4048770.
8.	Salunkhe V.G., Desavale R.G., 2021, "An Intelligent Prediction for Detecting Bearing Vibration Characteristics using Machine Learning Model", <i>ASME. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems</i> . https://doi.org/10.1115/1.4049938.
9.	M.B. Kumbhar, V.G. Salunkhe, A.V. Borgaonkar, T. Jagadeesha., 2020 "Mathematical Modelling and Experimental Evaluation of an Air Spring-Air Damper Dynamic VibrationAbsorber" <i>Springer, Journal of Vibration</i> <i>Engineering & Technologies</i> , 020-00263-w, https://doi.org/10.1007/s42417.
10.	Salunkhe V.G., Desavale R.G., T. Jagadeesha., 2021, "A Numerical Model for Fault Diagnosis in Deep Groove Ball Bearing Using Dimension Theory", <i>Elsevier, Journal of Material Today Proceedings</i> , Vol. 47, Part 11, 2021, pp.3077-3080. https://doi.org/10.1016/j.matpr.2021.06.072
11.	Salunkhe V.G., Pawar D. N., Kathavate V. S., 2020, "Micromechanics Based Models for the Effective Evaluations of Elastic Properties of Polymer Matrix Composites", <i>Elsevier, Journal of Material Today Proceedings</i> , Vol. 21, Part 2, 2020, pp.1298-1302. https://doi.org/10.1016/j.matpr.2020.01.166
12.	Borgaonkar A.V.,Salunkhe V.G.,Kumbhar M.B.,Koli A.R., Potdar S.B., "Theoretical and experimental investigation of effect of boundary conditions on SEA parameters for idealised subsystems", <i>Elsevier, Journal of Material</i> <i>Today Proceedings</i> , Vol. 11, Part 1, 2020, pp.198-104. 10.1016/j.matpr.2020.06.267
13.	Borgaonkar A.V.,Salunkhe V.G.,Mandale M.B., Potdar S.B., "Experimental investigations of different fiber orientations on damping loss factor of fiberglass composite specimens, <i>Elsevier, Journal of Material Today Proceedings</i> ,Vol. 26, Part 2, 2020, pp.256-260. https://doi.org/10.1016/j.matpr.2019.11.208

14. Salunkhe V.G., Amith Kumar. G., Rakesh J. R., T. Jagadeesha., 2019, "Design

	And Finite Element Analysis Of External Fixator Used In Orthopaedics", <i>Journal of American Insitute of Physics Conf. Proc. 2080</i> , pp. 04002-04008. https://doi.org/10.1063/1.5092920
	15. Salunkhe V.G., Amith Kumar. G., Rakesh J. R., T. Jagadeesha., 2019, "Simulation and Experimental Studies on Sliding Wear of Aluminium Alloy Under Dry Condition Using Asymmetric Contact models", <i>Journal of</i> <i>American Insitute of Physics Conf. Proc.</i> 2080, pp. 02007-04014. https://doi.org/10.1063/1.5092890.
	 Salunkhe V.G., Desavale R.G 2016 "Damage Detection of Roller Bearing System Using Experimental Data, <i>Elsevier Procedia Engineering</i>, 144, 2016, pp. 202-207. <u>https://doi.org/10.1016/j.proeng.2016.05.025</u>.
	 17. Salunkhe V.G., Walunj B.S., Ingale A.S., 2017, "Splintering Portrayal of Strung Rebar and Coupler", <i>Journal of Advances in Science and Technology</i> (<i>JAST</i>) Volume:13. Issue:1, pp.287-291. <u>http://ignited.in/a/4808</u>
16.	List of Papers Published in National and International Conferences
	 Salunkhe V.G., Desavale R.G., T. Jagadeesha., 2021, "A Numerical Model for Fault Diagnosis in Deep Groove Ball Bearing Using Dimension Theory", <i>International Conference on Advances in Mechanical Engineering and</i> <i>Nanotechnology (ICAMEN)</i> 2021 held at Manipal University Jaipur, India during March 18-19, 2021.
	 Salunkhe V.G., Desavale R.G., 2021, "A Novel Support Vector Machine Based Fault Identification Approach For Roller Element Bearing" VETOMAC - XVI 16th International Conference on Vibration Engineering and Technology of Machinery, 16-18th Dec. 2021 BMS COE Bangalore, India.
	 Salunkhe V.G., Desavale R.G., 2021, "Experimental Mathematical Model for Diagnosis of Vibrations Generated in Defective Rolling Element Bearings" <i>International Conference on Advancements in Design and Tribology (ICADT</i> 2021), 17-18 Dec.2021, SVNIT Surat, India.
	 Salunkhe V.G., Desavale R.G., 2021, "Numerical Studies on Roller Bearings Using Empirical Model and Response Surface Method", 2nd Virtual Inter. Tribology Research Symposium (ITRS 2021) 8-10 Dec. 2021 SRM (SRMIST) Kakankulathur, Tamil Nadu, India.
	 Salunkhe V.G., Patil P.B., Patil P.S., 2017," Experimental Investigation of Static & Dynamic loading conditions for Glare Material," <i>International Conference</i> <i>on Advances in Thermal Systems, Materials & Design Engineering,</i> 21st- 22ndDecember2017, VJTI, Mumbai. http://dx.doi.org/10.2139/ssrn.3101692.
	 Salunkhe V.G., Gavali A.B, Patil S.A., 2017," Automization of Oil Engine Guide Valve for Productivity Enhancement," <i>International Conference on</i> <i>Advances in Thermal Systems, Materials & Design Engineering,</i> 21st- 22ndDecember2017, VGTI, Mumbai.
	 Salunkhe V.G., Desavale R.G, T. Jagadeesha., Mali A.R., 2017," Experimental Empirical Model For Forensic analysis of Defective Frequency Provoke Inball Bearing," <i>International Conference On Advances In Engineering Sciences</i>: Icaes2017, 3 – 5 July 2017, Thailand.
	8. Salunkhe V.G., Desavale R.G., Mali A.R., "Dynamic Modeling of Taper Roller

Bearings with Surface Defects using Matrix Method". <i>1st International and</i> 18 th ISME Conference February 23 rd – 25 th , 2017, NIT Warangal, Warangal.
 Salunkhe V.G., Kumbhar M.B., "Dynamitic Vibration Absorbers using Pendulum Structures" 1st International and 18th ISME Conference February 23rd – 25th, 2017, NIT Warangal, Warangal.
 Salunkhe V.G., Desavale R.G., Mali A.R., "Experimental Mathematical Model for Diagnosis of Vibrations Generated in Defective rolling Element Bearings", <i>1st International and 18th ISME Conference</i> February 23rd – 25th, 2017, NIT Warangal, Warangal.
 Salunkhe V.G., Desavale R.G, T. Jagadeesha., Mali A.R., 2017, "Dynamic Modelling Of A Rotor Bearing Structure And Vibration Based Surface Defect Analysis", 13th International Conference on Vibration Problems, IIT Guwahati. Dec-2017.
 Salunkhe V.G., Mali A. R., Desavale R.G, T. Jagadeesha., 2017, "Influence of instantaneous defective frequency on speed and life of ball bearing", 13th International Conference on Vibration Problems, IIT Guwahati. Dec-2017.
 Salunkhe V.G., Rakesh J. R., T. Jagadeesha., 2017, "Effect of Residual Stress on Life of Stabilising Bar using Finite Element Fatigue Analysis" <i>7th International & 28th All India Manufacturing Technology, Design and</i> <i>Research Conference</i> (AIMTDR 2018), Anna University Chennai, 3th – 15th December 2018.
14. Salunkhe V.G., Rakesh J. R., T. Jagadeesha., 2017, "Life prediction of Crankshaft using Finite Element Fatigue Analysis" 7 th International & 28 th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2018), Anna University Chennai, 3 th – 15 th December 2018.
15. Salunkhe V.G., Amith Kumar. G., Rakesh J. R., T. Jagadeesha., 2017, "Design and Finite element analysis of external fixator used in Orthopaedics" <i>International Conference on Emerging Trends in Mechanical</i> <i>Engineering</i> (ICETME 2018), St Joseph Engineering College – Mangaluru, Karnataka, India, 10 th – 11 th August 2018. Anna University Chennai, 3 th – 15 th December 2018. https://doi.org/10.1063/1.5092920.
Patents/Books/Reports/General articles etc.
Patents :-
• Patent application no: 2021102312. A system for dynamic vibration absorber and method of operation.
Books :-
• Performance Investigation of Adsorption Refrigeration System: Performance Investigation of Adsorption Refrigeration System Using Activated Carbon- NH3 (Lambert Publication).
• Modification of Rice Mill (Lambert Publication).
Book Chapter :-
1. Salunkhe V.G., T. Jagadeesha., 2020., "Investigation of Crack Detection Technique in a Rotating Shaft by Using Vibration Measurement", <i>Springer</i> ,

	Advances in Industrial Automation and Smart Manufacturing.				
	https://doi.org/10.1007/978-981-15-4739-3_54				
	2. Salunkhe V.G., T. Jagadeesha., 2020., Experimental Evaluation of Cutting				
	Process Parameters in Cryogenic Machining of Duplex Stainless Steel",				
	Springer, Advances in Industrial Automation and Smart Manufacturing.				
	https://doi.org/10.1007/978-981-15-4739-3_44				
	2 M. D. Kumhhar, D. E. Labharda, U. S. Chauser, V.C. Saburba, 2021 "A				
	3. M. B. Kumbhar, P. E. Lokhande, U. S. Chavan, V.G. Salunkhe., 2021 "A Global Scenario of Sustainable Technologies and Progress in a Biodiesel				
	Production", Wiley- Scrivener, Biodiesel Technology and Application.				
	https://doi.org/10.1002/9781119724957.ch7				
	4. Salunkhe V.G., T. Jagadeesha., 2021., "Simulation and optimization of				
	materials used for prosthetic leg for above-knee amputees using MR fluid",				
	Springer				
	https://www.sciencedirect.com/science/article/pii/S2214785321009597.				
	5. Salunkhe V.G., T. Jagadeesha., 2021., "Theoretical and experimental				
	investigation of effect of boundary conditions on SEA parameters for idealised				
	subsystems", Springer				
	https://www.sciencedirect.com/science/article/pii/S2214785320347350.				
	6. Raut A.S., Khot S.M., Salunkhe V.G., 2023, "Application of Finite Element				
	Method for Analyzing the Influence of Geometrical Parameters of Spur Gear				
	Pair on Dynamic Behavior", Vibration Engineering: Modeling, Simulation,				
	<i>Experimentation, and Applications, CRC Press, Taylor and Francis</i> (Under Consideration).				
	Consideration).				
18.	Invited Lectures in FDP/ STTP :				
	• Invited lecture on "Fault Diagnosis in Rolling Element Bearing" in One week				
	STTP on "Condition Monitoring of Rotating Machines" organized by				
	Mechanical Engineering Department, ADCET, Ashta, on 15 th April 2020.				
	• Invited lecture on "Research Article Publication- An Insights" in Five Days				
	STTP on "Tools and Methods of Research and Publications" organized by				
	Mechanical Engineering Department, FCRIT, Vashi, on 02 nd Jan. 2024.				
10					
19.	International Conference Technical Program Committee Member / Reviewer :				
	Reviewer of International Journal				
	ISA Transactions, Elsevier				
	Alexandria Engineering Journal, Elsevier				
	• Journal of Non-destructive Evaluation, Diagnostics and Prognostics of				
	Engineering Systems (JNDE), ASME				
	• ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part				
	B: Mechanical Engineering, ASME				
	Journal of Tribology, ASME				
	Machines MDPI				
	• JVE International (Vibromechanika)				
	• Journal of Vibroengineering (JVE)				
	Mechanical Systems and Signal Processing, Elsevier				
	Measurement, Elsevier				