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

Staff Profile

Personal Information			
Name of Teaching Staff: Dr. Palekar Shailesh P.			
Designation: Associate Professor			
Department : Departme	nt of Mechanical Eng	g.	
Date of joining : 23/06/2	2009		
E Mail ID :	palekarshaileshmech@sanjivani.org.in		
Contact No:	9922868097		
	Education Details		
Qualification	Specialization with Class or Grade	University	Year
UG	Production with Distinction (68%)	SRTMU-Nanded	1999
PG	M.Tech (CAD/CAM) with Distinction	SGGGSIE &T- Nanded	2010
Ph.D	Mechanical Engg.	SVNIT-Surat	2016
	Total experience in years:		
Teaching: 23 Yrs.			
Industry: Nil			
Research and Publications			
1. Palekar Shailesh P. and	Achchhe Lal., (2020), Ste	ochastic Fracture Anal	ysis of the Laminated
Composite Plates Sub	jected to Different types of	of Biaxailly Applied Str	resses by implementing
SXFEM, Iranian Journal of Science and Technology, Transactions of Mechanical			
Engineering, <u>https://doi.org/10.1007/s40997-021-00434-4</u> .			
2. Palekar Shailesh P. and Achchhe Lal., (2020), XFEM for Fracture Analysis of Centrally Cracked			
Laminated Plates Subjected to Biaxial Loads, Mechanics of Advanced Composite Structures,			
Accepted Manuscript. (8) 213 – 234.			
3. Vaibhav J. Suryawanshi , Amar C. Pawar , Shailesh P. Palekar, Kuldip A. Rade, (2020), Defect			

detection of composite honeycomb structure by vibration analysis technique, *Materials Today: Proceedings*, **27**, 2731-2735.

- 4. Achchhe Lal , Khushbu Jain and S P Palekar, (2020), Fracture analysis of center cracked laminated composite plate subjected to bi-axial loading using extended finite element method, *IOP Conference Series: Materials Science and Engineering*, (2020) 01202.
- Achchhe Lal and Palekar Shailesh P.,(2016), Probabilistic fracture investigation of symmetric angle ply laminated composite plates using displacement correlation method, *Curved and Layered Structures*, 3 (1), 47–62.
- 6. Achchhe Lal and Shailesh P. Palekar, (2017), Stochastic fracture analysis of laminated composite plate with arbitrary cracks using X-FEM'', *International Journal of Mechanics and Materials in Design*, **13**,195–228.
- Achchhe Lal, Shailesh P. Palekar, Sameer B. Mulani, Rakesh K. Kapania, (2017), Stochastic extended finite element implementation for fracture analysis of laminated composite plate with a central crack, *Aerospace Science and Technology*, **60**, 131–151.

Papers presented in conferences:

- Shailesh P. Palekar, Achchhe Lal, Rakesh Kapania, Determination of fracture parameters for single notched edge cracks laminated composite plates subjected inplane mechanical loadings, 4th ICCMS-2012, IIT-Hyderabad, 12-15 Dec.2012.
- Shailesh P. Palekar, AchchheLal, Probabilistic Fracture Analysis of Symmetrically Angle-Ply Laminated Composite Plates with Single Edge V- Notch, ICTACEM-2014, IIT-Kharagpur, 29-31 Dec.-2014.
- Shailesh P. Palekar, AchchheLal, Probabilistic Fracture Analysis of Symmetrically Angle-Ply Laminated Composite Plates with elliptical crack subjected to biaxial load, ICCMS-2016, IIT-Mumbai, June 27-1 July 2016.
- Achchhe Lal, Shailesh P. Palekar, Mixed mode stress intensity factor of edge crack laminated composite plate in hygrothermal environment using XFEM, ICTACEM-2017, IIT-Kharagpur, 28-30 Dec.-2017.
- 5. Palekar Shailesh P,, Achchhe Lal, Patare Prasad M, Joshi Atul A, Bojage Prasad A, Suryawanshi Vaibhav J, Probabilistic Mixed Mode Stress Intensity Factors of Single Edge Cracked Laminated Composite Plates Using Stochastic Extended Finite Element Method, Joint Conference of ICTACEM 2021, APCATS 2021, AJSAE 2021 and AeSI 2021, IIT-Kharagpur, 2021.

 Vaibhav J. Suryawanshi, Shailesh P. Palekar, Prasad M. Patare, Prasad A. Bojage and Atul A. Joshi, Based on Natural Frequencies, Crack Analysis of Fixed Support Fibre Glass Composite Beam, Joint Conference of ICTACEM 2021, APCATS 2021, AJSAE 2021 and AeSI 2021, IIT-Kharagpur, 2021.

Author(s), Title of Article, Name of Conference, Place, Month-Year [Download Link]

		Research P	Profile URL		
Google Scho	olar https://scholar.google.com/citations?view_op=list_worl s&hl=en&hl=en&user=rBuQVI4AAAAJ				
Scopus	Id No 56912210700				
Orcid					
		Other Resea	arch Details		
Ph D Guide ?Give field & University:Fracture analysis of composite plate by using X Design and Analysis of Composite structures, S and Deterministic analysis of Structures.		•			
Ph Ds/ Proj Guided:			-		
Books Publ	lished Nil				
IPRs/Paten	nts Nil				
Professiona Membershi			e Member		
Interaction professiona institutions	al				
		Consultanc	y Activities		
Duration	Title	of Activity	Issued Organization	Amount	
Aug- 2019- Mar-2020	Design and Faiber Choppin	abrication of Glass ng Machine	GIZ-MASSIA and NIMA- Amalgamated Industrial Composite Private Ltd. Nashik	50000.00	
Aug- 2019- Mar-2020	Design and Fabrication of Movable Welding Workstation		GIZ-MASSIA and NIMA- Lalit Hydraulics Pvt. Ltd Nashik	25000.00	
		Grants	fetched		
Duration		Title	Issued Organization	Amount	

2014-2016	<u>Method-Mode</u> <u>Analysis of Si</u>	Finite Element Lling and Fracture ngle Edge inated Composite	BCUD, SPPUni Pune	versity-	80000.00
		Awa	rds		
		Please write	e/type Here		
	FACULTY DEVELOPMENT PROGRAMMES ATTENDED				
Name of th Workshop	e FDP /	Organization		Duratio	n Month- Year
Machine Auto Condition Mo		VNIT-Nagpur		15 Days	, Dec-2008
Effective Res Methodology		SRES COE, Kopargaon		01 Day, Jan-2010	
Recent Advar Composite M	aterials	SVNIT-Surat		5 Days, June-2013	
	lution for aminated Plates	SVNIT-Surat		5 Days, April-2015	
Advances in Applied, Con Experimental	nputational, and	SVNIT-Surat		5 Days, Oct-2016	
Fundamentals Technology fo Agriculture		MPKV- Rahuri		5 Days- April-2020	
	on of Outcome tion in context	SVNIT-Surat		3 Days- July-2020	
	FACULTY	DEVELOPMENT P	ROGRAMMES O	RGANIZED	
Name of th Workshop	e FDP /	Organization	Duration	Month- Year	Capacity
Research An Mechanical	reas in Engineering	SRES COE, Kopargaon	5 Days	Oct-202	1 100
	INVITI	ED LECTURES IN C	ONFERENCE/SE	MINAR	
Title of	Lecture/	Title of Conference/ Seminar		Organized By	
Academ	ic Session	et	с.		
Stochastic F Analysis of E Composite J XFEM		Advances in Theor Computational, an Mechanics	~ ~	SVNIT-S	urat
XEFM Math formulation analysis of s	for Fracture	Finite Element Methods for Engineering Applications		SVNIT-S	urat

Fracture Analysis of	Introduction to Finite Element	SRES COE, Kopargaon
Structures	Method and Engineering	
	Applications	

OTHER Professional URLs		
Personal Website		
Linked In Profile	https://www.linkedin.com/feed/	
GitHub URL		
YouTube Channel	https://www.youtube.com/channel/UCYuu0atujuom7dXW8wyE Xfg	
Other		

Any Other: Nil