SRES', Sanjivani College of Engineering, Kopargaon

(An Autonomous Institute affiliated to SPPU, Pune)

Staff Profile

Personal Information			
Name of Teaching Staff: Dr. Bharti M. Shinde			
Designation: Assistant Professor			
Department : Structural Engineering			
Date of joining : 14th Dec. 2011			
E Mail ID :	**shindebhartist@sanjivani.org.in**		
Contact No:	**9096239178**		

Education Details			
Qualification	**Specialization with Class or Grade**	**University**	**Year**
UG	**Civil Engineering**	**Pune University**	**2008**
PG	**Structure**	**Pune University**	**2013**
Ph.D	**Civil Engineering**	**Pune University**	**2021**

Total experience in years:	
Teaching:	**13.5 Years**
Industry:	**1 year**

Research and Publications

Year 2024

[1]. Wakchaure S.V. , Rakshe P. A. , Jadhav R. S., Gavhane R. A. and Shinde B. M., Utilization of contruction and demolotion waste material in low volume road construction: Experimental study. Best Practices in Geotechnical and Pavement Engineering,Lecture notes in Civil Engineering, Vol. 449, pp. 433-441, 2024.

[2]. Shinde B. M. , Sayyad A. S., Naik N.S. Assessment of a new higher-order shear and normal deformation theory for the static response of functionally graded shallow shells, Curved and layered structures, Vol. 11(1), pp. 20240014.

[3]. Shinde B.M., Sangale A. , Maile P., Sangale J., Roham C., Utilization of waste materials for soil stabilization: A comprehensive review, Progress in Engineering Science, Vol. 1(2-3), pp. 100009.

[4]. Shinde B.M., Rakshe P, Gavhane R., Wakchaure S., A Case Study on Structural Audit of Commercial Building, Springer Nature (In process).

Year 2023

[5]. Shinde B.M. and Sayyad A.S., Bending analysis of laminated composite cylindrical shell using fifth order shear deformation theory. *Fiber reinforced polymer materials and sustainable structures*, pp. 235-242, 2023.

[6]. Sayyad A. S., Shinde B. M. and Kant T. , Hygro-Thermo-Mechanical analysis of sandwich shallow shells considering the effects of transverse normal strain. *Journal of Thermal Stresses*, Vol.46(7), pp. 639-671, 2023.

[7]. Sayyad A. S., Palekar S. P., Shinde B.M., Higher order computational model considering the effects of transverse normal starin and 2-parameter elastic foundation for the bending of laminated panels. *Applied and Computational Mechanics*, Vol. 17(1), pp. 53-70,2023.

[8]. Sayyad A. S., Mahajan V. M. , Shinde B. M., Effects of transverse normal strain on deformation of laminated and sandwich arches under the action of concentrated force, *Mechanics of Advanced Materials and Structures*, 2023. DOI: 10.1080/15376494.2023.2229825.

[9]. Sayyad A. S., Shinde B.M. and Kant T., Effects of transverse normal stress on hygrothermomechanical analysis of laminated shallow shells, AIAA Journal, Vol.61(5), pp. 2281-2298. 2023.

Year 2022

[10]. Shinde B.M. and Sayyad A.S., A new higher order shear and normal deformation theory for FGM sandwich shells. *Composite Structures*, Vol. 280, 2022. **Impact factor : 5.407**

[11]. Shinde B.M. and Sayyad A.S., A New Higher-Order Shear and Normal Deformation Theory for the Free Vibration Analysis of Laminated Shells, *Mechanics of Advanced Composite Structures*, Vol. 9 (1), 89-104, 2022

Year 2021

[12]. Shinde B.M. and Sayyad A.S., A new higher–order theory for the static and dynamic response of sandwich FG plates *Journal of Computational Applied Mechanics*, Vol. 52 (1) pp. 102-125 DOI: 0.22059/JCAMECH.2020.313152.569, , 2021. **(https://jcamech.ut.ac.ir/article_79876.html)**

Year 2020

[13]. Shinde B.M. and Sayyad A.S., Analysis of laminated and sandwich spherical shells using new higher-order theory. *Advances in Aircraft and Spacecraft Science***,** Vol.7 (1), pp.19-40, 2020. (https://www.koreascience.or.kr/article/JAKO202011362304294.page)

[14]. Shinde B.M. and Sayyad A.S., Static deformation of orthotropic spherical shell using fifth-order shear and normal deformation theory *Materials Today: Proceeding*, Vol.21, pp.1123-1127, 2020. (https://www.sciencedirect.com/science/article/pii/S2214785320301218)

[15]. Shinde B.M. and Sayyad A.S., Thermoelastic analysis of laminated composite and sandwich shells considering the effects of transverse shear and normal deformations *Journal of Thermal Stresses***,** Vol. 43(10), pp. 1234-1257, 2020. (https://www.tandfonline.com/doi/abs/10.1080/01495739.2020.1786484)

Year 2017

[16]. Shinde B.M. and Sayyad A.S., A Quasi-3D Polynomial Shear and Normal Deformation Theory for Laminated Composite, Sandwich and Functionally Graded Beams. *Mechanics of Advanced Composite Structures* Vol.4 (2), pp. 139-152, 2017. Impact Factor: 0.634 (https://journals.semnan.ac.ir/article_2626.html)

Year 2016

[17]. Sayyad A.S., Shinde B.M. and Ghugal Y.M. Bending, Vibration and Buckling of Laminated Composite Plates Using a Simple Four Variable Plate Theory. *Latin American Journal of Solids and Structures*, Vol. 13, pp. 516-535, 2016. **Impact Factor: 1.411** (https://www.scielo.br/j/lajss/a/swwW8fWRRbFpt7t7Bvhq9Gs/?format=pdf&lang=en)

[18]. Sayyad A.S., Shinde B.M. and Ghugal Y.M. Thermal stress analysis of laminated composite plates using exponential shear deformation theory. *International*

Journal of Automotive Composites, Vol. 2, No. 1 pp. 23-40, 2016. (https://www.inderscienceonline.com/doi/abs/10.1504/IJAUTOC.2016.078100)

Year 2015

[19]. Shinde B.M., Sayyad A.S.. and Ghugal Y.M. A refined shear deformation theory for bending analysis of isotropic and orthotropic plates under various loading conditions. *Journal of Materials and Engineering Structures.* Vol. 2, pp. 3-15, 2015. (http://revue.ummto.dz/index.php/JMES/article/view/336)

[20]. Sayyad A.S., Shinde B.M. and Ghugal Y.M. Thermo-elastic Bending Analysis of Laminated Composite Plates According to Various Shear Deformation Theories. *Open Engineering* (*formerly Central European Journal of Engineering*) Vol. 5, No. 1, pp. 18-30, 2015. (https://www.degruyter.com/document/doi/10.1515/eng-2015-0004/html)

[21]. Ghumare S.M., Sayyad A.S., Shinde B.M. and Naik N.S. Cylindrical Bending of Laminated Composite Plates Using Refined Shear Deformation Theory. *Journal of Applied and Experimental Mechanics.* Vol. 1, No. 1, pp. 10-17, 2015. (https://d1wqtxts1xzle7.cloudfront.net/41215456)

Year 2013

[22]. Shinde B.M., Sayyad A.S., and Kawade A.B. Thermal analysis of isotropic plates using hyperbolic shear deformation theory. *Applied and Computational Mechanics.* Vol. 7, pp. 193-204, 2013. (https://www.kme.zcu.cz/acm/acm/article/view/209)

[23]. Sayyad A.S., Shinde B.M. and Ghugal Y.M. Thermo-elastic Bending Analysis of Orthotropic Plates using Hyperbolic Shear Deformation Theory. *Composites: Mechanics, Computations Applications*. *An International Journal*, Vol. 4, No. 3, pp. 257-278, 2013. (https://www.dl.begellhouse.com/journals/36ff4a142dec9609,120e958c786b37f0,5a9eccce3ccfdc1a.html)

[24]. Shinde B.M., Kawade A.B., and Sayyad A.S., Thermal Response of Isotropic Plates Using Hyperbolic Shear Deformation Theory. *International Journal of Advanced Technology in Civil Engineering.* Vol. 2, No.1, pp. 140-145, 2013. (https://scholar.google.com/scholar?cluster=17007643442038810304&hl=en&oi=scholarr)

Book Chapters:

Sr. No.	Name of Author	Title of Book Chapter	Title of Book	Publisher	Page No.
1	Shinde B M Sayyad A S	Free vibration analysis of laminated composite spherical shells: An analytical approach	Technologies for sustainable development	Taylor and Francis	51-56
5	Shinde B M Sayyad A S	Bending of FGM plates using four variable shear deformation theory", Advances in concrete, structural and Geotechnical Engineering	Advances in concrete, structural and Geotechnical Engineering	Bloomsburry	145-150

Papers presented in conferences:

Sr No.	Author	Title of Paper	Name of Conference	Date and Venue
1	Shinde B.M. and Sayyad A.S	Free vibration analysis of laminated composite spherical shells- an analytical approach	7th Nirma University International conference on Engineering (NUiCONE -2019)	21st to 22nd Nov 2019 at Nirma University, Ahemedabad
2	Shinde B.M. , Sayyad A.S.	Analytical solution using fifth order shear and normal deformation theory for FG plates resting on elastic foundation subjected to hygro-thermo-mechanical loading	6th International Conference on recent advances in composite materials. (IRACM-2019), IIT Varanasi	25th -28th Feb 2019 at IIT Varanasi
3	Shinde B.M.., Sayyad A.S.,	Bending of FGM plates using four variable shear deformation theory	Advances in concrete, structural and Geotechnical Engineering (ACSGE 2018), International Conference at Bits Pilani.	26th to 28th Feb 2008 at Bits Pilani
4	Shinde B M	Stress analysis of FGM plates under thermal load	INNOVATION-17 Regional research conference, University Research Cell, SPPU, Pune	15th Nov. 2017 at Pune Institute of Technology,

				Pune

Research Profile URL	
Google Scholar	https://scholar.google.co.in/citations?user=LvbXix8AAAAJ&hl=en
Scopus	**https://www.scopus.com/authid/detail.uri?authorId=57140349900**
Orcid	**https://orcid.org/0000-0001-9076-4263**

Other Research Details	
Ph D Guide ?Give field & University:	**SPPU Pune- Civil Engineering**
Ph Ds/ Projects Guided:	**--**
Books Published	**--**
IPRs/Patents	06 granted Design Patent
Professional Memberships:	**03 (IOV, IEI, ISSE)**
Interaction with professional institutions	**--**

Consultancy Activities

Duration	Title of Activity	Issued Organization	Amount
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Grants fetched

Duration	Title	Issued Organization	Amount
2016-18	Thermal Analysis of FGM plates under thermal load	BCUD, SPPU Pune	1, 10,000/-
2019-20	Intellectual Property Rights (IPR): Processes and Policies	QIP Scheme, SPPU Pune	1, 00,000/-

Awards

Received a "**Lady Engineer Award**" by Institution of Engineer Ahmednagar Local

Centre in 2016

FACULTY DEVELOPMENT PROGRAMMES ATTENDED

Name of the FDP / Workshop	**Organization**	**Duration**	**Month-Year**
Evolution of Construction Industry to address Infrastructure Challenges	AISSMS COE Pune, Superior Construction and Ultra Tech Cement	1 day	23rd April 2021
Consultancy in Civil Engineering: Opportunities and Challenges	MVP's KBT college of Engineering, SPPU and ACCE	1 week	10th to 14th May 2021
Structural Health Monitoring and Retrofitting Rehabilitation of structures	College of Engineering and Management Amravati	1 week	10th to 15th May 2021
National Education Policy 2020 with Special reference to HEI's	SCOE Kopargaon	1 day	10th April 2021
Wind and Earthquake Resistant Design	Prof. Ram Meghe Institute of Technology and Research Badnera	1 week	19th to 24th Dec 2020
Universal Human Values in Technical Education	Sanjivani College of Engineering, Kopargaon, IQAC Cell	1 week	22nd to 27th June 2021
Two days FDP on Theories of Beams and Plates	G H Raisoni COE and Management Pune	2 day	2nd to 3rd May 2020
Innovations and upgradation in infrastructural technology	TEC, ASTR, Krishna conchem peroducts	1 week	31st May to 4th June 2020
Advanced Microsoft Excel	TATA Steel	1 day	18th April 2020
1 week FDP on QCAD	Singhad Institute of Technology and science, Narhe and Spoken Tutorial IIT Bombay	1 week	9th to 13th May 2020
Scheduling Techniques in Project Management	NPTEL	4 week	Aug.2019

(result-80%)			
Two week FDP on "Present Scenario of Waste in India: Challenges, Issues and New Techniques of Treatment"	Sanjivani College of Engineering, Kopargaon	2 week	13th -25th Nov 2017
Study of special types of concrete and its application	Sanjivani College of Engineering, Kopargaon	2 days	12th – 13th Jan 2018
2 days workshop on Introduction to Finite Element Method and its Engineering Applications	Sanjivani College of Engineering, Kopargaon	2 days	9th – 10th Dec. 2016
Introduction to Research (Result- 67%)	NPTEL, Online Certification	12 week	July-Sep 17 (8 week)
Renewable Energies for a sustainable Future	ALISON online	1 week	

FACULTY DEVELOPMENT PROGRAMMES ORGANIZED

Name of the FDP / Workshop	**Organization**	**Duration**	**Month-Year**	**Capacity**
Intellectual Property Rights (IPR): Processes and Policies	Dept. of Civil Engg. SCOE Kopargaon	2 days	January 2019	50
Strategies to improve R and D activities in Engineering College	Dept. Of Structural Engg. SCOE Kopargaon	5 days	September 2020	50

INVITED LECTURES IN CONFERENCE/SEMINAR

Title of Lecture/ Academic Session	**Title of Conference/ Seminar etc.**	**Organized By**

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OTHER Professional URLs	
Personal Website	--
Linked In Profile	https://www.linkedin.com/feed/?trk=onboarding-landing
GitHub URL	--
YouTube Channel	https://www.youtube.com/channel/UCYySOL0vVDHnPUYA8bLoumQ
Other	--

Any Other: