Detailed Resume

NAME: Dr. Rajan Laxmanrao Wankhade	**DOB: 04 Jan 1986**
I/C Principal **& Head of Department** **Applied Mechanics Department** **Government Polytechnic Bramhapuri** **Dist. Chandrapur, Maharashtra** **441206** **Phone No.:** +91 7758883183 **Scopus Profile:** https://www.scopus.com/authid/detail.uri?authorId=15766678100	**E-mail:** rajan.wankhade@gov.in, rajanw04@gmail.com Google Scholar: https://scholar.google.co.in/citations?user=GHsvNhwAAAAJ&hl=en Research Gate: https://www.researchgate.net/profile/Rajan_Wankhade

1. EDUCATION

Degree	University / Institution	Year	Specialization	Division/ Class
Post Doc. Visiting scholar	Virginia Polytechnic Institute and State University, Blacksburg, Virginia-24061, US	2019	Solid Mechanics	--
Ph. D.	IIT Bombay	2015	Civil Engineering (Structural Engg. Specialization)	I
M.Tech.	Government College of Engineering, Amravati	2009	Structural Engg.	I
B. E.	Government College of Engineering, Amravati	2007	Civil Engineering	I

2. THESIS

Sr. No.	Degree	Thesis Title
1	Post Doc. Study	Development of Refined Higher Order Theories for Flexure and Vibration Analysis of Composite Laminated and Sandwich Plates
2	Ph.D	Vibration Control and Stability of Smart Piezolaminated Beams and Plates Using Finite Element Method
3	M.Tech	Linear Bending, Geometric Nonlinear and Stability Analysis of Skew Plates Using Finite Element Method

3. TEACHING EXPERIENCE

Sr. No.	Position	Institute / University	Duration	Exp. In Years
1	Head of Department Applied Mechanics	Government Polytechnic Bramhapuri, Dist.	25/05/2023	Till date

	Department (Selected through- Maharashtra Public Service Commission Exam 2022)	Chandrapur, Maharshtra 441206		
2	Associate Professor, Civil Engineering Department	Netaji Subhas University of Technology, New Delhi, India 110078	30/06/2022 to 01/05/2023	10 Months
3	Assistant Professor in Applied Mechanics Department (Selected through- Maharashtra Public Service Commission Exam 2010)	Government College of Engineering Nagpur, Maharashtra, India (Recognized Post Graduate Teacher at RTMNU Nagpur University. Letter No. RTMNU/CDS/3668 dated 23.10.2018)	30/07/2016 to 29/06/2022	5.11 yrs
4	Assistant Professor in Applied Mechanics Department (Selected through- Maharashtra Public Service Commission Exam 2010)	Government College of Engineering Karad, Maharashtra, India (An Autonomous Institute of Govt. of Maharashtra)	01/12/2010 to 29/07/2016	5.8 yrs

4. RESEARCH EXPERIENCE

Sr. No.	Institute / University	Duration
1	Indian Institute of Technology Bombay, India	July 2009 to August 2014

5. KEY AREAS

Sr. No.	
1	Finite Element Analysis, Linear and Nonlinear Analysis of Steel/RC Structures, Analysis of Smart Structures.
2	Development of higher order shear deformation theories for thick beams and plates
3	Earthquake and Structural Dynamics
4	FE software ANSYS, SAP2000, ABAQUS
5	FE Programming with MATLAB

6. PROJECTS CARRIED OUT

Sr. No.	Title of Work
1	Evaluation of condition assessment of elevated water tanks using Non destructive techniques
2	Static analysis of building frames with fixed an isolated base
3	NDT of concrete structures in Karad region
4	Analysis of laminated plates using ANSYS
5	Providing Testing and consultancy for Government College of Engineering Karad in strength of material lab

7. PATENTS

Sr. No.	Title of Invention	Publisher	Year	Status
1	Sensing and Detection of Cracks and Obstacles on The Railway Line (Patent application no. 202141036443)	The Patent Office Journal No. 39/2021 Dated 24/09/2021 (https://ipindia.gov.in/journal-patents.htm) Application No.202141036443 A Date of filing of Application :12/08/2021 Publication Date : 24/09/2021 Page no. 43658	2021	Published
2	Experimental Research on Metal Matrix Composite To Be Used In Hydraulic Turbine Bush (Patent application no. 202121035723)	The Patent Office Journal No. 35/2021 Dated 27/08/2021 (https://ipindia.gov.in/journal-patents.htm) Application No.202121035723 A Date of filing of Application :07/08/2021 (43) Publication Date : 27/08/2021 Page no. 38125	2021	Published
3	A Friction Based Analysis of Heat Transfer Efficacy on Fluted Tubes on A Diesel Engine Cylinder (Patent application no. 202121046848)	The Patent Office Journal No. 44/2021 Dated 29/10/2021 (https://ipindia.gov.in/journal-patents.htm) Application No.202121046848 A Date of filing of Application :14/10/2021 Publication Date : 29/10/2021 Page no. 50133	2021	Published
4	A High Strength Geopolymer Concrete Composition And A Method To Produce The High Strength Geopolymer Concrete (Patent number: 2021103690)	Australian patent (Granted Patent number: 2021103690)	2021	Granted

8. BOOKS

Sr. No.	Title of Book	Publisher	Year
1	Design of Steel Structures ISBN: 9351647749	Nirali Prakashan, 2015	2015

2	Nonlinear and Stability Analysis of Skew Plates using FEM Author: Rajan L. Wankhade ISBN: 978-3-659-46970-1	LAP LAMBERT Academic Publishing GmbH and Company, KG, Dudweiler Landstr., 99, 66123 Saarbrucken, Germany. Published in September 2013	2013

9. WORKED AS EDITOR

Sr. No.	Title of Book	Publisher	Year
1	Special Volume on "Advances in Structural Engineering" ISSN Print: 2164-3164 ISSN Online: 2164-3172	Open Journal of Civil Engineering, Scientific Research Publishing, Volume 6 (1).	2016
2	Proceedings cum Journal for National Conference on "Advances in Structural Engineering", ISBN: 9788193209110	International Journal of Engineering Research, Volume 5, special issue 3	2016
3	Proceedings of National Conference on "Advances in Civil and Structural Engineering", ISBN: 978-93-5156-532-1	Government College of Engineering, Karad, Maharashtra, India	2014

10. RESEARCH PAPERS

	International Journal	National Journal	International Conference	National Conference
No. of Papers	21	-	13	07

11. PAPERS PUBLISHED IN INTERNATIONAL JOURNALS (*Peer-reviewed and refereed journals)

Sr. No.	
1	P. D. Gajbhiye, Nuha S. Mashaan, V. Bhaiya, Rajan L. Wankhade, and S. P. Vishnu, "Inelastic Behavior of Steel and Composite Frame Structure Subjected to Earthquake Loading", *Appl. Mech.*, 2023, vol. **4**, 899–926. https://doi.org/10.3390/applmech4030047
2	Wankhade, R.L., Landage, A.B. (2023). Seismic Fragility of Building Subjected to Pounding Effects with Damper. In: Vilventhan, A., Singh, S.B., Delhi, V.S.K. (eds) Advances in Construction Materials and Management. ACMM 2022. Lecture Notes in Civil Engineering, vol 346. Springer, Singapore. https://doi.org/10.1007/978-981-99-2552-0_32 Print ISBN978-981-99-2551-3, Online ISBN978-981-99-2552-0

3	Shivali, R.B., Wankhade, R.L., Goldar, D. (2023). High Performance FRC Tunnel Lining with Alkali Activator and Cementitious Materials. In: Vilventhan, A., Singh, S.B., Delhi, V.S.K. (eds) Advances in Construction Materials and Management. ACMM 2022. Lecture Notes in Civil Engineering, vol 346. Springer, Singapore. https://doi.org/10.1007/978-981-99-2552-0_37 Print ISBN978-981-99-2551-3, Online ISBN978-981-99-2552-0
4	Priyanka Jadhav; Archana Gite; Rajan L. Wankhade (20323) "Strength Characteristics of Fe-SMA Reinforcement in RC Beam with Experimentation and Finite Element Modeling" Civil Engineering in Transport, Communications – Scientific letters of the University of Zilina, Vol. 25 (3), D54-D70. DOI: 10.26552/com.C.2023.043
5	Harne, K.R., Joshi, H. & Wankhade, R.L. Estimation of evapotranspiration in constructed wetlands under diverse climatic conditions. Environ Monit Assess 195, 370 (2023). Impact factor: 3 https://doi.org/10.1007/s10661-023-10928-0
6	Mohd. Gulfam Pathan, Rajan L. Wankhade, A.M. Shende, Ajay Swaroop & Nuha Mashaan (2022) "Experimental Analysis For Performance Of Concrete With Addition Of Steel Fibres, Sbr And Polypropylene Fibres", ***Journal of Engineering (Journal of Kejuruteraan)***, vol 34(3),pp. 429-445. dx.doi.org/10.17576/jkukm-2022-34(3)-10
7	Wankhade R.L., Sawarkar A., Chandwani A., Chavan S., Malkar P., Sawarkar G. (2022) "Seismic Fragility of Buildings Subjected to Pounding Effects with Soil–Structure Interaction" In: Gupta A.K., Shukla S.K., Azamathulla H. (eds) Advances in Construction Materials and Sustainable Environment. ***Lecture Notes in Civil Engineering***, vol 196. Springer, Singapore. https://doi.org/10.1007/978-981-16-6557-8_34
8	Madghe P., Berad H., Roy A., Vaidya N., Sakharwade N., Wankhade R.L., (2022) "Use of Waste Polymers in a Plastic Bricks as Sustainable Building and Construction Materials", In: Gupta A.K., Shukla S.K., Azamathulla H. (eds) Advances in Construction Materials and Sustainable Environment. ***Lecture Notes in Civil Engineering***, vol 196. Springer, Singapore. https://doi.org/10.1007/978-981-16-6557-8_62
9	Jadhav R., Wankhade R.L. (2022) "Thermo-mechanical Modeling and Analysis of Adaptive NiTi Shape Memory Alloy Plates". In: Khang N.V., Hoang N.Q., Ceccarelli M. (eds) Advances in Asian Mechanism and Machine Science. ASIAN MMS 2021. ***Mechanisms and Machine Science***, vol 113. Springer, Cham. https://doi.org/10.1007/978-3-030-91892-7_89
10	Rajan L. Wankhade and Kamal M. Bajoria, "Vibration Attenuation and Dynamic Control of Piezolaminated Plates with Coupled Electro-mechanical Actuation", ***Archive of Applied Mechanics***, Vol 91 (1), pp. 411-426, 2021 (SCI and Scopus Indexed, Impact Factor: 2.8) Electronic ISSN 1432-0681, Print ISSN 0939-1533 **DOI Number**:https://doi.org/10.1007/s00419-020-01780-6
11	Kouider Bendine and Rajan L. Wankhade, "Piezoelectric Energy Harvesting from a Curve Plate Subjected to Time-Dependent Loads Using Finite Elements", ***IOP: Journal of Physics CS (JPCS),*** Vol 1706 (012008), pp. 1-8, 2020. (Scopus

	Indexed)
12	Samiksha Noyogi, Rajan L . Wankdae, P. D. Gajbhiye, "Buckling Analysis of Laminated Composites Considering the Effect of Orthotropic Material", ***IOP: Journal of Physics CS (JPCS)***, Vol 1706 (012188), 1-8, 2020 (Scopus Indexed)
13	Chittaranjan B. Nayak, Umesh T. Jagadale, Keshav M. Jadhav, Samadhan G. Morkhade, Gunavant K. Kate, Sunil B. Thakare & Rajan L. Wankhade "Experimental, analytical and numerical performance of RC beams with V-shaped reinforcement" **Innovative Infrastructure Solutions (Springer)**, Vol 6(1), 2020.(Scopus Indexed)
14	Rajan L. Wankhade and Samiksha Noyogi, "Buckling analysis of symmetric laminated composite plates for various thickness ratios and modes" **Innovative Infrastructure Solutions (Springer)**, Vol 5(3), 2020.(Scopus Indexed)
15	Rajan L. Wankhade and Kamal M. Bajoria, "Vibration Analysis of Piezolaminated Plates for Sensing and Actuating Applications under Dynamic Excitations" ***International Journal of Structural Stability and Dynamics,*** Vol. 19 (10),1950121, 2019. (SCI and Scopus Indexed, Impact Factor: 2.957 to 3.6)
16	Kouider Bendine, Rajan L. Wankhade, "Optimal Shape Control of Piezolaminated Beams with Different Boundary Condition and Loading using Genetic Algorithm" ***International Journal of Advanced Structural Engineering, Springer***, Vol. 9, 2017. (Scopus Indexed, Impact Factor:0.88)
17	Rajan L. Wankhade and Kamal M. Bajoria, "Numerical optimization of piezolaminated beams under static and dynamic excitations" ***Journal of Science: Advanced Materials and Devices, Elsevier Science Direct*** Volume 2, Issue 2, Pages 255-262, June 2017. (SCI and Scopus Indexed, Impact Factor: 8). ISSN 2468-2179 **DOI Number**:https://doi.org/10.1016/j.jsamd.2017.03.002
18	Rajan L. Wankhade and Kamal M. Bajoria, "Shape Control and Vibration analysis of Piezolaminated Plates Subjected to Electro-Mechanical Loading" ***Open Journal of Civil Engineering, Scientific Research Publishing***, Volume 6 (3), pp. 335-345, 2016.
19	Bendine, K. and Wankhade, "Vibration Control of FGM Piezoelectric Plate Based on LQR Genetic Search" ***Open Journal of Civil Engineering, Scientific Research Publishing***, Volume 6 (1), pp. 1-7, 2016.
20	Rajan L. Wankhade and Kamal M. Bajoria, "Free Vibration and Stability Analysis of Piezolaminated Plates using Finite Element Method", ***Smart Materials and Structures***, ***IOP Science***, Volume 22(125040), 2013. (SCI, Scopus Indexed, Impact Factor: 4.1)
21	Rajan L. Wankhade and Kamal M. Bajoria, "Buckling Analysis of Piezolaminated Plates using Higher Order Shear Deformation Theory", ***International Journal of Composite Materials***, Volume 3(4), pp. 92-99, 2013.
22	Rajan L. Wankhade and Kamal M. Bajoria, "Stability of Simply Supported Smart Piezolaminated Composite Plates using Finite Element Method", ***International Journal of Advancements in Mechanical and Aeronautical Engineering***, Volume 1(1), pp. 14-19, 2013.
23	Rajan L. Wankhade and Amarsinh B. Landage, "Non-destructive Testing of Concrete Structures in Karad Region", ***Procedia Engineering, Elsevier Science Direct,*** Volume 51, pp. 8-18, 2013. (Scopus Indexed, Impact Factor☺
24	Kamal M. Bajoria and Rajan L. Wankhade, "Free Vibration of Simply Supported Piezolaminated Composite Plates using Finite Element Method", ***Civil***

	Engineering and Materials, Advanced Materials Research, Volume 587, pp. 52-56, 2012. (Scopus Indexed, Impact Factor☺

12. PAPERS PUBLISHED IN INTERNATIONAL CONFERENCES

Sr. No.	
1	R. L. Wankhade, "Performance Analysis of RC Moment Resisting Frames Using Different Rubber Bearing Base Isolation Techniques", International Conference on Innovations in Concrete for Infrastructure Challenges, INFRACON, October 6-7, 2017, **Nagpur, India.**
2	Kamal M. Bajoria and Rajan L. Wankhade, "Vibration of Cantilever Piezolaminated Beam with Extension and Shear Mode Piezo Actuators", SPIE Conference on Smart Structures / NDE, March 08-12, 2015, **San Diego, California, United States. (Scopus Indexed)**
3	Rajan L. Wankhade and Kamal M. Bajoria, "Assesment of Higher Order Shear Deformation Theory for Stability Analysis of Piezolaminated Plate", International Conference on Recent Advances in Composite Materials (ICRACM), 18-22 February 2013, **Goa, India.**
4	Sourabh Deshpande and R. L. Wankhade, "Analysis of Thick Beams using First Order Shear Deformation Theory", International Conference on Structural Engineering and Mechanics, Dec 20-22, 2013, **NIT, Rourkela, Odisha, India**.
5	Kamal M. Bajoria and Rajan L. Wankhade, "Free Vibration of Simply Supported Piezolaminated Composite Plates using Finite Element Method, ICCEM-International conference on civil engineering and materials, 7-8 July 2012, **Paris, France.** (Published in Journal)
6	Rajan L. Wankhade and Kamal M. Bajoria, "Stability of Simply Supported Smart Piezolaminated Composite Plates using Finite Element Method", International conference on advances in aeronautical and mechanical engineering, 23-24 June 2012, **Bangkok, Thailand.** (Published in Journal)
7	Rajan L. Wankhade and Kamal M. Bajoria, "Analysis of Smart Piezolaminated Composite Plates using Finite Element Method", 7th ICCSM-International Congress of Croatian Society of Mechanics, 22-25 May 2012**, Zadar, Croatia**.
8	Y. M. Ghugal, R. L. Wankhade and P. K. Deshpande "Free Vibration of Cross-ply and Angle-ply Laminated Plates using Trigonometric Shear Deformation Theory", International Conference of Structural Stability and Dynamics (ICSSD) 4-6 January 2012, **MNIT Jaipur, India.**
9	Rajan L. Wankhade and Kamal M. Bajoria, "Finite Element Modeling of Smart Piezolaminated Composite Plates and Shells", 56th Congress of the Indian Society of Theoretical and Applied Mechanics (An international meet), Dec 19-21, 2011, **SVNIT Surat, India.**
10	Rajan L. Wankhade, "Buckling of Laminated Composite Plate Subjected to Axial Compressive Loading", Recent Trends & Challenges in Civil Engineering (RTCCE-14), Dec 12-14, 2014, **NIT Allahabad, India**.
11	Rajan L. Wankhade, "Performance Based Design and Estimation of Forces for Building Frames with Earthquake Loading", Recent Trends & Challenges in Civil Engineering (RTCCE-14), Dec 12-14, 2014, **NIT Allahabad, India**.
12	Rajan L. Wankhade, "Stability of Composite Laminates Subjected to Compressive In-Plane Loading", International Conference on Advances in Civil and Mechanical Engineering Systems, December 23-24, 2014, Government College of Engineering, Amravati in association with **SVNIT, Surat, India.**

13	Rajan L. Wankhade, "Finite Element Modeling of Piezolaminated Plate For Optimal Location of Piezoelectric Actuator and Sensor", 60th Congress of the Indian Society of Theoretical and Applied Mechanics, Dec 16-19, 2016, **MNIT Jaipur, India.**

13. PAPERS PUBLISHED IN NATIONAL CONFERENCE

Sr. No.	
1	Rajan L. Wankhade, Amarsinh B. Landage, "Study on properties of concrete with addition of SBR and Steel Fiber" National conference on "Advances in Structural Engineering (NCASE-2016), Government College of Engineering, Karad, Maharashtra, India during 27-28 February 2016. (Published in Journal)
2	Prakash M. Yesane, Y. M. Ghugal, R. L. Wankhade, "Study on Soil-Structure Interaction: A Review" National conference on "Advances in Structural Engineering (NCASE-2016), Government College of Engineering, Karad, Maharashtra, India during 27-28 February 2016. (Published in Journal)
3	R. L. Wankhade, "Vibration of Piezolaminated Plates with Finite Element Modeling", National conference on Analysis and Design of Civil Engineering Structures under Static and Dynamic Loading, Amrutvahini College of Engineering, Sangamner, Ahmednagar, India during 27-28 January 2016.
4	R. L. Wankhade and A. B. Landage, "Performance Based Analysis and Design of Building Frames with Earthquake Loading", 2nd National conference on "Innovations in Civil Engineering (NCICE-2016), Government College of Engineering, Karad, Maharashtra, India during 08-09 January 2015. (Published in Journal)
5	R. L. Wankhade and A. B. Landage, "Experimental Investigation on Combined Effect of SBR and Steel Fiber on Properties of Concrete", 2nd National conference on "Innovations in Civil Engineering (NCICE-2016), Government College of Engineering, Karad, Maharashtra, India during 08-09 January 2015. (Published in Journal)
6	R. L. Wankhade and A. B. Landage, "Static Analysis for Fixed Base and Base Isolated Building Frame", National Conference on Advances in Civil and Structural Ebgineeeirng (NCACSE-2014), Government College of Engineering, Karad, Maharashtra, India during 22-23 August 2014.
7	R. L. Wankhade and K. N. Kadam, "Analysis of Skew Rhombic Plates by Finite Element Method", National conference on Recent Development in Applied Mathematical Science and Engineering, 20th to 22nd Feb,2009. Organized by Jalpaiguri Government Engineering College, West Bengal, India.

14. PAPERS REVIEWED FOR THE JOURNAL

Sr. No.	Name of the International Journal
1	Achieves of Civil and Mechanical Engineering
2	Composite Structures – Elsevier
3	Sensors & Actuators: A. Physical
4	Mechanics of Advanced Materials and Structures (Taylor & Francis)
5	Steel and Composite Structures, An International Journal (Techno press)
6	Structural Engineering and Mechanics, An International Journal (Techno press)
7	Iranian Journal of Science and Technology (Transactions of Mechanical Engineering)
8	International Journal of Mechanical Sciences
9	Journal of Mechanical Engineering Science (SAGE publication)
10	Indian Concrete Journal (ICJ)

15. CONFERENCE ORGANIZED

Sr. No.	
1	National Conference on "Advances in Structural Engineering" at Government College of Engineering Karad, Maharashtra, India during 27-28 February 2016.
2	National Conference on "Advances in Civil and Structural Engineering" at Government College of Engineering Karad, Maharashtra, India during 22-23 August 2014.

16. SHORT TERM TRAINING PROGRAMME ORGANIZED

Sr. No.	One Week
1	One week online DTE sponsored FDP on "Accreditation to Engineering and Professional Ethics", organized by Government College of Engineering Nagpur, Maharashtra, India during 08-12 July 2020.
2	One week online TEQIP sponsored FDP on "Advances in Civil and Structural Engineering", organized jointly by Government College of Engineering Karad and Nagpur, Maharashtra, India during 15-19 June 2020.
3	One week DTE sponsored STTP on "Modern Trends in Construction Techniques and Methods for Infrastructural Development", at Government College of Engineering Nagpur, Maharashtra, India during 06-10 March 2017.
4	One week TEQIP sponsored short term training programme "Structural analysis and design using Staad-pro" at Government College of Engineering Karad, Maharashtra, India during 21-25 December, 2015.
5	One week TEQIP sponsored short term training programme "Application of MATLAB in engineering and science" at Government College of Engineering Karad, Maharashtra, India during 23-27 December, 2015.
6	One week TEQIP sponsored short term training programme on "Finite element method and its applications to Engineering" at Government College of Engineering Karad, Maharashtra, India during 17-21 February, 2014.

17. WORKSHOP ORGANIZED

Sr. No.	
1	Two days Faculty Development workshop on "Stress and Stress management" at Government College of Engineering Karad, Maharashtra, India during 21-22 August, 2015.

18. FDP/STTP ATTENDED

Sr. No.	Two Week
1	Two week AICTE sponsored faculty development programme on "The Multidisciplinary Nature of Environment, Environmental Ethics and Issues" at G. H. raisoni Institute of Engineering and Technology, Nagpur, Maharashtra, India during 07-16 Nov. 2017
2	Two week ISTE-TEQIP short term training programme on "Advanced research thrust areas in engineering and science" at Government College of Engineering, Karad, Maharashtra, India during 21-30 November 2015.
3	Two week AICTE sponsored faculty development programme on "Basics of Structural Dynamics and Seismic Design" at Annasaheb Dange College of Engineering and Technology, Ashta, Maharashtra, India during 10-22 June 2013.
4	Two week QIP short term course on "Finite Element Method and Application in Civil Engineering" at NITTTR, Bhopal, India during 11-22 February 2013.

Sr. No.	One Week
1	Online AICTE-ISTE Sponsored Refresher course on '' Theory and Practical Essence of Bridge Engineering '' during from 01st to 07th February 2022 organized by Department of Civil Engineering, KLS Gogte Institute of Technology, Udyambag, Belagavi
2	ISTE & IEI Approved National Level One Week Online FDP on "Advanced Teaching Tools, Techniques and Methodologies for Outcome Based Education" from 01-05 June 2020 organized by Center of Excellence in Teaching & Learning, AISSMS College of Engineering, Pune
3	One week DTE sponsored FDP on "Accreditation To Engineering And Professional Ethics" organized by Government College of Engineering, Nagpur during 08 to 12 July 2020
4	AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things(IoT)" from 25-05-2020 to 29-05-2020 at Dr. Babasaheb Ambedkar Technological University, Lonere.
5	One week TEQIP sponsored FDP on "Advances in Civil and Structural Engineering" organized by Government College of Engineering, Nagpur and Karad during 15 to19 June 2020
6	One Week TEQIP-Online Faculty Development Program on "Machine Learning and Deep Learning Applications in Engineering and Science (MLDLAES - 2020)"from 16thMay – 20thMay 2020 (Sponsored by Technical Education Quality Improvement Program –III) Organized by Civil Engineering Department, Government College of Engineering, Karad
7	One Week Online Faculty Development Program entitled "QCAD" organized by

	Department of Civil Engineering Sinhgad Institute of Technology and Science, Narhe, Pune in association with Spoken Tutorial, IIT Bombay from 9th May to 13th May,2020
8	One week TEQIP sponsored FDP "MATLAB Applications in engineering and science" (MAES 2020), from 27thApril – 01st May 2020 (Sponsored by Technical Education Quality Improvement Program-III) Organized by Civil Engineering Department, Government College of Engineering, Karad.
9	Eight week ANNUAL REFRESHER PROGRAMME IN TEACHING (ARPIT), Sustainable Construction Materials & Techniques (arp19-ap75)-February 2020
10	One week TEQIP short term programme on "Wind Effects on Structures" at VNIT, Nagpur, Maharashtra, India during 03-07 November 2018.
11	GIAN MHRD Course "Nonlinear Continuum Mechanics" at IIT Kharagpur during 18-23 December 2017
12	One week DTE sponsored short term programme on "Recent Trends in Environmental Pollution control" at Government College of Engineering, Nagpur, Maharashtra, India during 20th to 24th March 2017.
13	One week DTE sponsored short term programme on "Modern Trends in Construction Techniques and Methods for Infrastructural Developement" at Government College of Engineering, Nagpur, Maharashtra, India during 06th to 10th March 2017.
14	One week TEQIP short term programme on "Structural analysis and design using Staad-pro" at Government College of Engineering, Karad, Maharashtra, India during 21-25 December 2015.
15	One week QIP short term programme on "Teaching Methodology" at Government College of Engineering, Karad, Maharashtra, India during 23-27 December 2013.
16	One week QIP short term programme on "New Trends in Hydro Electric Power Project" at Government College of Engineering, Karad, Maharashtra, India during 09-13 December 2013.
17	One week TEQIP faculty development programme on "MATLAB Applications in Engineering and Science" MAES -2013, at Government College of Engineering, Karad, Maharashtra, India during 20-24 May 2013.
18	One week TEQIP faculty evelopment programme on "Optimization Techniques and its Applications to Engineering" OTAIATE-2012, at Government College of Engineering, Karad, Maharashtra, India during 17-21 December 2012.
19	One week training of Reliasoft software at Government Polytechnic, Aurangabad, Maharashtra, India during 05 to 09 March 2012.
20	One week QIP short term programme on "Finite Element Method and Application in Civil Engineering" at IIT Bombay, Maharashtra, India during 16-20 August 2011.
21	"Modeling, Analysis & Design of the structures using SAP 2000 & ETABS" Organized by Dept. of Applied Mechanics, Government College of Engineering Amravati, India, during 09-14 February 2009

19. Expert Lectures Delivered at

Sr. No.	**Expert Lectures Delivered at**
1	National workshop on "Implementation of National Education Policy 2020: Industry and Institute Linkage (NEP 2020)" at Anantrao Pawar College of Engineering & Research in Association with SPPU Pune during 10-11th February 2023.

2	AICTE one week online FDP on "Computational Intelligence in Earthquake Resistant Design" organized by Prof Ram Meghe College of Engineering and Management, Badnera-Amravati during 30 November to 05 December 2020
3	AICTE one week online FDP on "Computational Intelligence in Earthquake Resistant Design" organized by Prof Ram Meghe College of Engineering and Management, Badnera-Amravati during 03 August to 08 August 2020
4	Delivered online lecture on " Design of Steel Structures by LSM" organized by Pimpri Chinchwad Education Trust's Pimpri Chinchwad College of Engineering & Research Pune on 19 May 2020.
5	Delivered online expert lecture for Two days Refresher Course for Faculties on "Theories of Beams and Plates" organized by G H Raisoni College of Engineering and Management Wagholi, Pune during 02-03 May, 2020
6	One week TEQIP sponsored Faculty Development Programme "MATLAB Applications in engineering and science" (MAES 2020) Organized by Government College of Engineering Karad, Maharashtra, India during 23-27 March, 2020.
7	AICTE one week FDP on "Recent Advances in Structural Dynamics" at Government college of Engineering Amravati during 18-23 Feb 2019.
8	Two days faculty development program on "Amendments in IS 1893 & IS 13920-2016" during 15-16 February 2018 at Dr. D. Y. Patil School of Engineering and Technology, Lohgaon, Pune
9	All India Workshop on "Salient Features of New Seismic Codes IS 1893 and IS 13920-2016" during 03-04, Nov 2017, at RIT, Rajaramnagar, in association with The Institution of Engineers (India), Pune Local Centre, under the aegis of Civil Engineering Divisional Board (IEI).
10	One week TEQIP sponsored short term training programme "Application of MATLAB in engineering and science" at Government College of Engineering Karad, Maharashtra, India during 23-27 December, 2015.
11	One week TEQIP sponsored short term training programme on "Finite element method and its applications to Engineering" at Government College of Engineering Karad, Maharashtra, India during 17-21 February, 2014.

20. CONSULTANCY PROJETS

Sr. No.	
1	**COMPLETED (Government Projects)** • Jalswarajya-2, • Ekarjuna Project • Nagar Palika Parishad Kawardha, Dist. Kabirdham, Chattisgarh. India • Projects under Water Resource Dept. Chandrapur, Yavatmal and Amravati State Maharashtra, India (Govt. Projects) (Total Cost 11.00 Lac)
2	**ONGOING (Government Projects)** • International Cricket Stadium, Nanded (Total Cost of project 52 Crore) • AMRUT Project (WAPCOS Ltd.)

21. MEMBERSHIP

Sr. No.	
1	Life Member of Indian Concrete Institute L.M. No. 12105

2	MIE, Member of The Institution of Engineers (India). Membership No. M-1637988

22. Names and addresses of three References (at least one of them should be familiar with your recent work)

Name	Prof. R. C. Batra	Prof. K. M. Bajoria	Prof. Vishwas A. Sawant
Occupation or Position	Clifton C. Garvin Professor	Professor	Professor
Address	Department of Biomedical Engineering and Mechanics	Department of Civil Engineering	Department of Civil Engineering
	Virginia Polytechnic Institute and State University, Blacksburg, Virginia-24061, US	Indian Institute of Technology, Bombay	Indian Institute of Technology, Rorkee
Fax			
E-mail	rbatra@vt.edu	kmb@iitb.ac.in	vishwas.sawant@ce.iitr.ac.in sawntfce@gmail.com
Phone No	540-231-6651	02225767332, 9820718117	9410327328 +91-1332-285892

23. OTHER ACHIEVEMENTS

Sr. No.	
1	Qualified Maharashtra Public Service Commission's Maharashtra Teaching Services, Examination-2022 (Head of Department in Applied Mechanics)
2	Selected for Post Doctoral Fellowship at Tsinghua University, China in 2015-16. (Not Joined)
3	Qualified Maharashtra Public Service Commission's Maharashtra Teaching Services, Examination-2010 (Assistant professor in Applied Mechanics)
4	Qualified Maharashtra Public Service Commission's Maharashtra Engineering (Civil) Services, Examination-2009 (State - Maharashtra, India)