



# AISSMS

## COLLEGE OF ENGINEERING

ज्ञानम् सकलजनहिताय

An Autonomous Institute Affiliated to Savitribai Phule Pune University  
Approved by AICTE, New Delhi and Recognised by Govt. of Maharashtra

Accredited by NAAC with "A+" Grade | NBA - 7 UG Programmes



### Department of Civil Engineering Faculty Profile

**Prof. (Dr.) Manisha Vaibhav Waghmare**

Ph. D (Civil Engineering)

Associate Professor

PG Coordinator

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#### Research Areas / Areas of Interest

Structural Engineering, Earthquake Engineering, Structural Dynamics, Structural Control, Design of Structures

#### Personal Details

**Domicile:** Maharashtra

**Gender:** Female

**Blood Group:** O+ve

**Contact Details:** Department of Civil Engineering, AISSMS College of Engineering, Pune

#### Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Civil Engineering	Pune	-	Sept.2021
2	M.E.	Civil - Structural Engineering	Pune	I <sup>st</sup>	May 2006
3	B.E.	Civil Engg.	Pune	I <sup>st</sup>	May 2001

**Work Experience**

S. No.	Type of Experience	Years	Months
1	Teaching	19	00
2	Research	00	00
3	Industry	1	01
4.	Teaching at PG level	12	--
<b>Total</b>		<b>20</b>	<b>01</b>

**Subjects / Courses Taught**

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Basic Civil and Environmental Engineering	UG	FE	05
2	Engineering Mechanics	UG	FE	05
3	Strength of Materials	UG	SE	03
4	Structural Analysis-I	UG	TE	04
5	Structural Design and Drawing-II	UG	TE	05
6	Structural Design and Drawing-III	UG	BE	08
7	Advanced Concrete Technology	UG	BE	02
8	Structural Dynamics	PG	ME	02
9	Research Methodology	PG	ME	03
10	Earthquake Engineering and Disaster Management	PG	ME	04
11	Advanced Design of Concrete Structures	PG	ME	12
12	Numerical Methods in Structural Engineering	PG	ME	08
13	Design of Prestressed concrete structures	PG	ME	03
14	Design of foundation	PG	ME	01
15	Human Rights	PG	ME	01
16	Design of Precast components and Ferro-cement	PG	ME	01
17	Non linear Analysis of Structure	PG	ME	01
18	Analysis and Design of Earthquake Resistant structures	PG	ME	04
19	Design of RC structures	UG	TE	02
20	Theory of Elasticity and Plasticity	PG	PG	01

## Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
<b>Journals</b>	07	16	-	05	07
<b>Conferences</b>	10	19	-	10	-

## Publication Details (Journals) - 23

S. N o	Document Details	Authors	Year	Source Details	ISBN/ ISSN	Publisher
01	<i>Behavior of Elevated Water Tank under Sloshing Effect</i>	M. V. Waghmare and S. N. Madhekar	2013	International Journal of Advanced Technology in Civil Engineering, Vol. 1, No. 4, (2013), citations 13, h-index 02	ISSN: 2231-5721	
02	<i>“Seismic Analysis of High-Rise Building Using Negative Stiffness Device”</i> ,	A. H. Raheja, M. V. Waghmare and U. R. Awari,	2015	International Journal of advance foundation and research in science and engineering, ( 2015), citations 04	ISSN: 2349-4794,	
03	<i>“Study of Seismic performance of base isolated RCC structure using fibre reinforced elastomeric Isolator-A review”</i> ,	Gunjan Donode and M.V. Waghmare	2018	International Research Journal of Engineering and Technology, (2018)	ISSN: 2395-0056	IRJET
04	<i>“Semi-Active Fluid Viscous Dampers for Seismic Mitigation of RC Elevated Liquid Storage Tanks”</i>	M. V. Waghmare, S. N. Madhekar, and V. A. Matsagar,	2019	International Journal of Structural Stability and Dynamics, Vol. 19, No. 3, DOI: 10.1142/S0219455419500202(2019) (SCI and Scopus), citations 20		World Scientific Publishing

05	<i>“Nonlinear Analysis of RC structure under Multiple Earthquakes”,</i>	Shesalu Vadeo and M. V. Waghmare	2019	International Journal for Modern Trends Science and Technology, (2019), citations 05	ISSN: 2455-3778	IJMTM ST
06	<i>“Seismic Analysis of Diagrid and Buckling restrained Braced structural System”,</i>	S. P. Biradar and M. V. Waghmare	2019	International Journal for Modern Trends in Science and Technology, (2019)	ISSN: 2455-3778	IJMTM ST
07	<i>“Influence of Nonlinear Fluid Viscous Dampers on Seismic Response of RC Elevated Storage Tanks”</i>	M. V. Waghmare S. N. Madhekar, and V. A. Matsagar	2020	Civil Engineering Journal, Vol. 6, Special Issue "Emerging Materials in Civil Engineering" DOI: <a href="http://dx.doi.org/10.28991/cej-2020SP(EMCE)-09">http://dx.doi.org/10.28991/cej-2020SP(EMCE)-09</a> , (2020) (SCI and Scopus), citations 14	ISSN: 2476-3055	Salehan Institute of Higher Education
08	<i>Analyzing Efficiency of Aerodynamic Shapes of Buildings using ETABS Software</i>	Junaid Naushad Shikalgar, Manisha V. Waghmare	2021	International Research Journal of Engineering And Technology (IRJET) Volume 8, Issue 7, July 2021, (UGC care)		IRJET
09	<i>“Performance of RC elevated Liquid Storage Tanks Installed with Semi- Active Pseudo- Negative Stiffness Dampers”</i>	M. V. Waghmare, S. N. Madhekar, and V. A. Matsagar,	2022	Structural Control and Health Monitoring, Vol. 29, Issue 4, Wiley publication, (April 2022) (SCI and Scopus), citations 11	Online e ISSN: 1545-2263	Wiley
10	<i>“Strengthening of RC Column using GFRP”</i>	Shubham Shukla, and M. V. Waghmare	2022	International Journal for Research in Applied Science & Engineering Technology, Vol. 10, Issue 3, (March 2022)	Online ISSN: 2321-9653	
11	<i>“Experimental Study of Crack Patterns of Composite Slabs”</i>	Darpan Karmare, and M. V. Waghmare,	2022	Dickensian Journal, Vol. 22, Issue 6, (June 2022) (UGC care)	Online ISSN: 0012-2440	Institute of Technology, School of Management Sciences, Lucknow

12	<i>“Analysis of Offshore Jacket Structure with Tuned Mass Damper”</i>	Sheetal Y. Diwase, and M. V. Waghmare,	2022	Dickensian Journal, Vol. 22, Issue 7, (July 2022) (UGC care)	Online ISSN: 0012-2440	
13	<i>Dynamic Analysis of Cantilever Retaining Wall,</i>	Prajakta Patil, and M. V. Waghmare,	2022	SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology Volume 14, Special Issue 2, 2022.	Print ISSN: 2229-7111 Online ISSN: 2454-5767.	Institute of Technology, School of Management Sciences, Lucknow
14	<i>Ultrasonic Pulse Velocity Test on Hybrid Fiber Reinforced Concrete,</i>	Kanchan D. Vajanam, and M. V. Waghmare,	2022	SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, Volume 14, Special Issue 2, 2022	Print ISSN: 2229-7111 Online ISSN: 2454-5767	Institute of Technology, School of Management Sciences, Lucknow
15	<i>Analysis of Rectangle Bridge Pier for Different Velocities,</i>	Snehal Helkar, and M. V. Waghmare,	2022	SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, Volume 14, Special Issue 3, 2022	Print ISSN: 2229-7111 Online ISSN: 2454-5767	Institute of Technology, School of Management Sciences, Lucknow
16	<i>Effect of Post Tensioning On Long Span Precast Beam,</i>	Abhijeet Mane, and M. V. Waghmare	2022	SAMRIDDHI: A Journal of Physical Sciences, Engineering and Technology, Volume 14, Special Issue 3, 2022	Print ISSN: 2229-7111 Online ISSN: 2454-5767	Institute of Technology, School of Management Sciences, Lucknow
17	<i>Early age evolution and Prediction of compressive Strength of concrete</i>	Dnyanesh Nikam, D. V. Wadkar, and M. V Waghmare	2023	International Journal of Novel Research and Development (IJNRD), Volume 8, Issue 7, July 2023	ISSN: 2456-4184	IJNRD
18	<i>Seismic analysis of RC structure by considering soil structure interaction (SSI)</i>	Sushant Khot, M. V. Waghmare	2023	International Research Journal of Engineering and Technology (IRJET) Volume: 10 Issue: 07, July 2023	e- ISSN: 2395-0056	IRJET

19	<i>Effect of Frequency Content of Earthquake Ground Motions on Structures with Varying Dimension</i>	K. N. Bajad and M. V. Waghmare	2022	<p>ISSET Journal of Earthquake Technology, Vol. 59, Issue 2</p> <p>ISSN 0972-0405</p> <p>UGC CARE List</p>	ISSN 0972-0405	Indian Society of Earthquake Technology, IIT Roorkee
20	<i>Seismic Response of RC Elevated Liquid Storage Tanks Using Semi-active Magneto-rheological Dampers.</i>	M. V. Waghmare, S. N. Madhekar, and V. A. Matsagar,	28 DEC 2022	<p>Recent Trends in Construction Technology and Management. Lecture Notes in Civil Engineering, Vol 260, Springer, Singapore.</p> <p>ISSN 2366-2557 (SCOPUS)</p>	ISSN 2366-2557	Springer, Singapore.
21	Enhancement in Seismic Isolation Using U-Shape Metallic Isolator.	Chavane, K., Manchalwar, A.A., Waghmare, M.V.		<p>Innovations in Technologies: Pioneering Sustainable Infrastructure for a Resilient Future. IC-RTIDSM 2023. . Editors: Khode, B.V., Kurwadkar, S., Pawade, P., Ghodmare, S.D., Khan, H.A. (eds)</p>	ISBN: 978-3-031-82133-2	<p>Springer, Cham.</p> <p><a href="https://doi.org/10.1007/978-3-031-82133-2_27">https://doi.org/10.1007/978-3-031-82133-2_27</a></p>
22	<i>Optimal Position of Hybrid Outrigger in High-Rise Building</i>	Aniket Sukare M. V. Waghmare,	July 2025	<p>The Indian Journal of Technical Education (IJTE), Vol. 48, Issue 3 In Press, ISTE publication</p> <p>ISSN:0971-3034</p> <p>UGC CARE List</p>	ISSN:0971-3034	, ISTE publication
23	<i>Seismic analysis of Buckling-restrained Braced diagrid structures</i>	Soham Patil and M. V. Waghmare,	July 2025	<p>The Indian Journal of Technical Education (IJTE), Vol. 48, Issue 3 In Press, ISTE publication</p> <p>ISSN:0971-3034</p> <p>UGC CARE List</p>	ISSN:0971-3034	, ISTE publication

## Publication Details (Conferences) - 26

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
<b>International Conference (19)</b>						
01	Stresses Induced in elevated water tank due to seismic loading,	M. V. Waghmare and S. N. Madhekar	28 <sup>th</sup> - 30 <sup>th</sup> November 2013	4 <sup>th</sup> Nirma University International Conference on Engineering, NUiCONE-2013, Nirma University, Gujrat. 28 <sup>th</sup> -30 <sup>th</sup> November 2013		Nirma University, Ahmadabad, Gujrat.
02	Seismic response of reinforce concrete buildings with couple building control,	Sushma Devadkar and M. V. Waghmare	22 <sup>nd</sup> -24 <sup>th</sup> December, 2014	Structural Engineering Convention, IIT Delhi, page no 208, 22 <sup>nd</sup> -24 <sup>th</sup> December 2014	ISBN 978-93-84898	IIT Delhi,
03	Passive damper for seismic Control of elevated water Tank,	S. B. Funde and M. V. Waghmare	22 <sup>nd</sup> -24 <sup>th</sup> December, 2014	Structural Engineering Convention, IIT Delhi, page no 239, 22 <sup>nd</sup> -24 <sup>th</sup> December 2014		IIT Delhi,
04	Vibration control of elevated water tanks using viscous dampers,	M. V. Waghmare, S. N. Madhekar, and V. A. Matsagar	28 <sup>th</sup> -30 <sup>th</sup> May 2015	International Conference on Industrial Instrumentation and Control, COEP page no. 218,	ISBN : 978-1-4799-7165-7/15	COEP
05	Seismic control for elevated liquid storage tanks using roll-n-cage isolator,	Mayur Khandve and M. V. Waghmare	28 <sup>th</sup> - 30 <sup>th</sup> May 2015	International Conference on Industrial Instrumentation and Control, COEP, page no. 182	ISBN : 978-1-4799-7165-7/15,	COEP
06	Vibration Control of Structures using Customized Approach for Tuned Liquid Damper	Rajarshi Aich, Sonali Rokade and M. V. Waghmare	19 <sup>th</sup> - 21 <sup>st</sup> Decemb er 2018	11 <sup>th</sup> Structural Engineering Convention, Jadhavpur University, Kolkata, paper no.20180049,		Jadhavpur University, Kolkata
07	Manufacturing of an Economical Single Degree-of-Freedom Shake Table	K. N. Bajad and M. V. Waghmare	26-28 Sept 2019	International Conference on Recent trends and Innovations in Civil		Medi-Caps University, Indore

				Engineering at Medi-Caps University, Indore, (MP)		
08	Effect of dam reservoir interaction on response of dam subjected to dynamic analysis,	P. D. Girme and M. V. Waghmare	26-28 Sept 2019	International Conference on Recent trends and Innovations in Civil Engineering at Medi-Caps University, Indore, (MP)		Medi-Caps University, Indore
09	Numerical analysis of shape-memory alloy-wire based smart natural rubber bearing,	P. M. Ujalambe and M. V. Waghmare	21 <sup>th</sup> -22 <sup>nd</sup> November 2019	7 <sup>th</sup> Nirma University International Conference on engineering, NUiCONE		Nirma University, Ahmadabad, Gujrat.
10	Seismic Response of RC Elevated Liquid Storage Tanks using Semi-Active Magneto-Rheological Dampers,	M. V. Waghmare, S. N. Madhekar, and V. A. Matsagar,	11-12 March 2021.	Proceedings of International Conference on Advances in Construction Technology and Management (ACTM 2021)		Department of Civil Engineering, College of Engineering Pune (COEP)
11	Evaluation of Mechanical Properties of Bendable Concrete	Shreyas S. Gundecha and M. V. Waghmare	19 <sup>th</sup> August 2021 to 21 <sup>st</sup> August 2021	“International e-Conference on Sustainable Development in Concrete Technology ICSDCT 2021” Sponsored by All India Council for Tech. Education (AICTE), New Delhi		Organized by Department of Civil Engineering, D. Y. Patil College of Engineering, Akurdi, Pune
12	Effect of Frequency Content of Earthquake Ground Motions on Structures with Varying Dimension,	K. N. Bajad and M. V. Waghmare	19-22 December 2022	ASPS Conference Proceedings, Volume 1, Issue 2, Proceedings of 12 <sup>th</sup> Structural Engineering Convention-An International Event (SEC 2022), Malaviya National Institute of Technology, Jaipur, Rajasthan, 19-22 December 2022.	ISSN 2830-909X	Malaviya National Institute of Technology, Jaipur, Rajasthan
13	Non-linear Dynamic Analysis of RC Structures Under Earthquake Sequences,	ShesaluD. Vadeo and M. V. Waghmare	19-22 December 2022.	ASPS Conference Proceedings, Volume 1, Issue 2, Proceedings of 12 <sup>th</sup> Structural Engineering Convention-An International Event (SEC 2022), Malaviya National Institute of	ISSN 2830-909X	Malaviya National Institute of Technology, Jaipur, Rajasthan





20	<i>Behavior of Elevated Water Tank under Seismic Loading,</i>	M. V. Waghmare, B. G. Birajdar, and R. C. Pathak	12 <sup>th</sup> 13 <sup>th</sup> Jan 2008	XII ISTE (Maharashtra & Goa Section) Convention & National Seminar,		JSPM Group Institutes, Wagholi, Pune
21	Seismic response of base-isolated liquid storage tank by using roll-n-cage isolator,	Mayur Khandave and M. V. Waghmare	2014	15 <sup>th</sup> Symposium on Earthquake Engineering		IIT Roorkee
22	<i>Seismic analysis of Dam –Reservoir Interaction using ANSYS,</i>	Avanti Arakal and M. V. Waghmare	2015	National Conference on Technical Revolution		Annantrao Pawar COE and Research, Pune
23	Non-linear time history analysis of multistory building using passive vibration control,	Siddharth Dighe and M. V. Waghmare	22 <sup>nd</sup> - 23 <sup>th</sup> April 2015	International conference on Emerging Trends in Civil Engineering-		Tulsiramji Gaikwad Patil College of Engineering and Technology, Nagpur
24	<i>Seismic Analysis of Air Traffic Control Tower,</i>	A. D. Saravde and M. V. Waghmare	27 <sup>th</sup> - 28 <sup>th</sup> February 2019	Panchatatva in Civil Engineering, Integrating five elements of nature for sustainable development,	IS B N 97 8-93-87901 - 06-3,	Sinhgad College of Engineering, Pune
25	<i>Comparative Analysis of Diagrid Structural System and Conventional Structural System,</i>	S. P. Biradar and M. V. Waghmare	27 <sup>th</sup> - 28 <sup>th</sup> February 2019	Panchatatva in Civil Engineering, Integrating five elements of nature for sustainable development,	IS B N 97 8-93-87901 - 06-3,	Sinhgad College of Engineering, Pune
26	<i>Effect of Post Tensioning On Long Span Precast Beam,</i>	Abhijeet Mane, and M. V. Waghmare	20 May 2022	Conference Proceedings of National Conference on Innovation in Engineering and Technology 2022 (NCIET2022),		AISSMS College of Engineering, Pune
27	<i>Dynamic Analysis of Cantilever Retaining Wall,</i>	Prajakta Patil, and M. V. Waghmare,	20 May 2022	Conference Proceedings of National Conference on Innovation in Engineering and Technology 2022 (NCIET2022),		AISSMS College of Engineering, Pune

28	<i>Analysis of Rectangle Bridge Pier for Different Velocities.</i>	Snehal Helkar, and M. V. Waghmare	20 May 2022	Conference Proceedings of National Conference on Innovation in Engineering and Technology 2022 (NCIET2022),		AISSMS College of Engineering, Pune
29	<i>Study of Ferrocement in Construction: Review Paper,</i>	Sarvesh Jadhav, and M. V. Waghmare	20 May 2022	Conference Proceedings of National Conference on innovation in Engineering and Technology 2022		AISSMS College of Engineering,

#### PhD / ME / BE Student Guided for Project

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	03 (Pursuing)	65 (Awarded)	30(Awarded)

## Patents/IPR Filed/ Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
	-	-	-	-	-

## Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number
01	M. V. Waghmare, S. N. Madhekar, and V. A. Matsagar, <i>Behaviour of Elevated Water Storage Tanks Under seismic Events</i> , Advances in structural Engineering, Dynamics, volume-II pp 1167-1176 2015 (2015)	(Springer-Scopus)	Print ISBN no. 978-81-322-2192-0, Online ISBN no. 978-81-322-2193-7.
02	K. N. Bajad and M. V. Waghmare, <i>Manufacturing of an Economical Single Degree-of-Freedom Shake Table</i> , Recent Trends in Civil Engineering, Editor: Pathak K.K., Bandara J.M.S.J., Agrawal R. Publisher Name : Springer, (Sept 2020)	(Springer-Scopus)	Singapore Print ISBN 978-981-15-5194-9 Online ISBN 978-981-15-5195-6
03	P. D. Girme and M. V. Waghmare, <i>Effect of dam reservoir interaction on response of dam subjected to dynamic analysis</i> , Recent Trends in Civil Engineering, Editor: Pathak K. K., Bandara J.M.S.J., Agrawal R. Publisher Name: Springer, Singapore (Sept 2020)	(Springer-Scopus), citations 3	Print ISBN 978-981-15-5194-9 Online ISBN 978-981-15-5195-6
04	P. M. Ujalambe and M. V. Waghmare, <i>Numerical analysis of shape-memory alloy- wire based smart natural rubber bearing</i> , Technologies for Sustainable Development: Proceedings of the 7th Nirma University International Conference on Engineering, Editors: Mahajan, Patel and Sharma, (2020)	Publisher: Taylor & Francis Group, London, (CRC Press)	ISBN 978-0-367-33737-7

## Research Grants Received

Sr. No.	Program	Duration	Funding Agency	Grant Amount
1	Study of Earthquake induced waves in circular water tanks with various staging height Co-Investigator: Sonal A Kothari	2014-16	BCUD, SPPU, Pune,	Grant received Rs. 200000/- (Rs. 2 lakhs only).
2	Manufacturing of Lead rubber bearing	2014-2015	Dr. S. N. Madhekar, COEP,	Rs. 40,000/- (Rs. Forty thousand only)
3	Conduction of experiments on Shake table for ME Structures	27/12/2019	KJ Educational Institutes, K J College of Engineering and Management Research	Rs 20000/- (Rs. Twenty thousand only)
4	FDP on Earthquake Engineering and Vibration Control	11-16 December 2023	AICTE- ATAL Academy, New Delhi	Grant received Rs. 350000/- (Rs. 3 lakhs Fifty thousand only).

## Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
ISTE	National	Life membership	LM 5555
ISSET	National	Life membership	LM 1691
IEI	National	Life membership	M-1596009
SESI	National	Life membership	LM/2511/2021

## Details of Workshop / STTP / FDP / Seminar / Conferences Organized

S.N o	Title	Type	Duration	Level (State/National / International)	Sponsoring Agency
01	One-week ISTE National level Short Term Training Program (STTP) on <b><i>“Planning and Design For Green Building Energy Simulation”</i></b>	STTP	11 <sup>th</sup> - 16 <sup>th</sup> , March 2013	National	ISTE and Imperial College of Engineering and Research, Wagholi
02	<b><i>“Revision BE Civil (2012 Course) Syllabus drafting”</i></b>	Workshop	10 <sup>th</sup> , June 2015	State	BOS Civil Engineering, SPPU, Pune and Department of Civil Engineering, AISSMS COE, Pune
03	Post Graduate Conference <b><i>“PGCON 16”</i></b> at Department of Civil Engineering, AISSMS COE, Pune,	Conference	9 <sup>th</sup> -10 <sup>th</sup> , June 2016	University	BOS Civil Engineering, SPPU, Pune and Department of Civil Engineering, AISSMS COE, Pune
04	<b><i>“Engineering Geological Investigation at Tunnel site”</i></b> by Dr. P D Sabale, Department of Archaeology, Deccan College Post Graduate and Research Institute, Pune	Webinar	21 May 2020	State	Department of Civil Engineering AISSMS COE, Pune
05	<b><i>“Precast Mass Housing Construction”</i></b> by Col. Sanjay M. Adsar, General Manager (Engineering Planning and Design), B. G. Shirke Construction Technology Pvt Ltd, Pune (India)	Webinar	05 June 2020	State	Department of Civil Engineering, AISSMS COE, Pune

06	2nd Hybrid <b>National Conference on Innovation in Engineering and Technology (NCIET 2022)</b>	Conference	20 May 2022	National	AISSMS COE, Pune
07	Organized <b>International Conference on Green Energy 2023</b> organized as a member of Organizing Committee at AISSMS COE, Pune,	Conference	16-17 May 2023.	International	Western Regional Chapter of Solar Energy Society of India
08	Organized One-week <b>National level</b> faculty development program on “Earthquake Engineering and Vibration Control” funded by <b>AICTE Training and Learning (ATAL) Academy</b>	FDP	11 December 2023- 16 December 2023	National	AICTE ATAL academy
09	Organized <b>One-Day Workshop on “Analysis and Design of Elevated Water Tanks”</b> in association with Institution of Engineers (India) - Pune Local Centre Indian Society of Earthquake Technology - Pune Chapter on	One-Day	11 April 2025	University	AISSMS COE, Pune in association with Institution of Engineers (India) - Pune Local Centre Indian Society of Earthquake Technology - Pune Chapter

## Details of Workshop / STTP / FDP / Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
01	<i>“Concrete Mix Design”</i>	Workshop	16 <sup>th</sup> Sept to 18 <sup>th</sup> Sep.2003.	Govt. College of Engineering, Pune from	Gujarat Ambuja Cement
02	<i>“Workshop on Earthquake Resistant Design of RC Buildings”,</i>	STTP	17 -21 <sup>st</sup> December 2007	Department of Applied Mechanics, Govt. College of Engineering, Pune	ISTE
03	<i>“XII ISTE (Maharashtra &amp; Goa Section) Convention &amp; National Seminar”</i>	Convention	12-13th Jan 2008	JSPM Group Institutes, Wagholi, Pune	ISTE
04	<i>“Implementation of revised Syllabus of the subjects Basic Civil &amp; Environmental Engg and Engineering Mechanics”</i>	Workshop	9 <sup>th</sup> April 2008	G.H.Raisoni Institute of Engg and Technology, Pune)	Board of Studies, Civil Engineering (University of Pune)
05	<i>“Provisions in IS-456 (Revised 2000) and its Implications”</i>	Workshop	20 <sup>th</sup> September 2008	JSPM’s Rajarshi Shahu College of Engineering, Pune	Board of Studies, Civil Engineering (University of Pune)
06	Workshop on <i>“Engineering Mechanics – Effective Teaching Methodology”</i>	Workshop	8 <sup>th</sup> -9 <sup>th</sup> January 2009	Department of Civil Engineering, Vishwakarma Institute of Information Technology, Pune	Board of Studies, Civil Engineering (University of Pune)
07	National workshop on <i>“Design of steel Structures using revised IS 800: 2007 (Code of practice for General Construction in Steel)”</i>	Workshop	from 30 <sup>th</sup> June -4 <sup>th</sup> July 2009	Department of Civil Engineering, Sinhgad College of Engineering, Pune	Board of Studies, Civil Engineering (University of Pune)



08	Three-day workshop on <b><i>“Blast Resistant Design of Structures”</i></b>	Workshop	10 <sup>th</sup> to 12 <sup>th</sup> January 2014	Department of Civil Engineering, COEP	TEQUIP-II
09	Two days International workshop on <b><i>‘Emerging Trends in Earthquake Engineering and Structural Dynamics’</i></b> ,	Workshop	20 <sup>th</sup> and 21 <sup>st</sup> Dec. 2014	Department of Civil Engineering, IIT Delhi	TEQUIP-II
10	<b><i>“Structural Dynamics and Earthquake Resistant Design”</i></b> ,	Workshop	29 <sup>th</sup> and 30 <sup>th</sup> July 2016	Department of Civil Engineering, MAEER’s MIT, Pune	MAEER’s MIT, Pune
11	One day faculty development program on <b><i>“Water Management and Energy Conservation”</i></b> ,	FDP	14 July 2018	AISSMS COE, Pune	AISSMS COE, Pune
12	One day workshop on <b><i>“Design of PT Flat Slabs and Introduction to Vibration and Earthquake Analysis”</i></b> ,	Workshop	28 July 2018	Department of Civil Engineering, Sinhgad college of Engineering, Pune,	Board of Studies, Civil Engineering (University of Pune)
13	Two day National seminar on <b><i>“Environment and Green Technology for Sustainable Development”</i></b> ,	Seminar	18 <sup>th</sup> to 19 <sup>th</sup> January 2019	Department of Chemical and Civil Engineering, AISSMS COE, Pune	AISSMS COE, Pune
14	One-week faculty development program on <b><i>“Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment”</i></b> ,	FDP	10 <sup>th</sup> to 15 <sup>th</sup> June 2019	CETL, AISSMS COE, Pune	ISTE

15	One-week FDP on “ <b><i>Outcome based Curriculum design</i></b> ”	FDP	9 <sup>th</sup> to 13 <sup>th</sup> December 2019	CETL, AISSMS COE, Pune	AISSMS COE, Pune
16	One-week Online FDP on “ <b><i>Artificial Intelligence</i></b> ”	FDP	), 24 April 2020 to 28 April 2020	AICTE Training and Learning (ATAL) Academy and Indian Institute of Information Technology (IIIT Nagpur	AICTE Training and Learning (ATAL) Academy
17	One-week Online Faculty Development Program on “ <b><i>Open FOAM</i></b> ”	FDP	28 April 2020 to 04 May 2020	AISSMS College of Engineering, Pune	Spoken Tutorial Project, IIT Bombay.
18	One-week National STP on “ <b><i>A Smart and Sustainable World in Concrete and Structures</i></b> ”	STP	4 June 2020 to 8 June 2020.	AISSMS College of Engineering, Pune	UltraTech Cement Limited, Pune
19	One-week National Online FDP on “ <b><i>Advanced Teaching Tools, Techniques and Methodologies For Outcome Based Education</i></b> ”	FDP	01 June 2020 to 05 June 2020	Centre of Excellence in Teaching and Learning, AISSMS College of Engineering, Pune	AISSMS College of Engineering, Pune
20	One-week “ <b><i>Advances in Civil &amp; Structural Engineering (ACSE – 2020)</i></b> ”	FDP	15 June 2020 to 19 June 2020	Govt. College of Engineering, Karad and Govt. College of Engineering, Nagpur	TEQUIP III
21	Online one week FDP on “ <b><i>Entrepreneurship and start up</i></b> ”	FDP	22 June 2020 to 26 June 2020.	NITTR, Bhopal	NITTR, Bhopal

22	Two weeks ' <b><i>IP-7-Induction program: Phase-I</i></b> ',	Induction Program	06 July 2020 to 17 July 2020	NITTTR, Bhopal	NITTR, Bhopal
23	Online one week ' <b><i>Training of Trainers (TOT) for Teacher Educators</i></b> ',	TOT	20 July 2020 to 24 July 2020	NITTTR, Bhopal	NITTTR, Bhopal
24	One day national online FDP " <b>Advances in Technology and safety Aspects in Infrastructure projects</b> ",	FDP	19 September 2020	Department of Civil Engineering, AISSMS COE	FDPAC, Pune
25	One-week Online FDP on " <b>Earthquake Engineering</b> "	FDP	04 January 2021 to 08 January 2021	College of Engineering Pune (COEP), Pune	AICTE Training and Learning (ATAL) Academy
26	One day online FDP " <b>Recent Advancements in Concrete Technology</b> ",	FDP	09 January 2021	Department of Civil Engineering AISSMS College of Engineering, Pune	AISSMS College of Engineering, Pune
27	One day International FDP: " <b>Evolution of Construction Industry to Address Infrastructure Challenges.</b> "	FDP	23 April 2021	Department of Civil Engineering AISSMS College of Engineering, Pune	AISSMS College of Engineering, Pune
28	Three days Workshop: " <b>Workshop For Syllabus Drafting of TE Civil 2019 Pattern Syllabus</b> "	Workshop	3/05/2021 to 5/05/2021	AISSMS College of Engineering Pune	Board of Studies Civil Engineering Savitribai Phule Pune University

29	National Level one day Workshop on <b>"Geotechnical case studies of Infrastructure Projects"</b>	Workshop	12/06/2021	AISSMS College of Engineering, Pune	AISSMS College of Engineering, Pune
30	One-week Online FDP on <b>"Earthquake Response and Vibration Control of Lifeline Structures"</b>	FDP	05 July 2021 to 09 July 2021	College of Engineering Pune (COEP)	Organized by AICTE Training and Learning (ATAL) Academy
31	Two days' Workshop: <b>"Workshop For Syllabus Drafting of BE Civil 2019 Pattern Syllabus"</b>	Workshop	30/06/2022 to 1/07/2022	AISSMS College of Engineering Pune	Board of Studies Civil Engineering Savitribai Phule Pune University
32	One-week online FDP on <b>Low-cost Housing</b>	FDP	10 .07.23 to 14.07.23	NITTTR Bhopal	NITTTR Bhopal
33	One-week offline FDP on <b>Use of ICT to Build Capacity of Technical Teachers</b>	FDP	from 24 June 2024 to 28 June 2024, organized by	NITTTR Bhopal at Pune center.	NITTTR Bhopal
34	Three-day <b>Development and Reconstruction to Empower Technical Teacher</b>	FDP	12-14 Aug 2024	NITTTR Bhopal at Pune center.	NITTTR Bhopal
35	Two weeks online <b>NEP Orientation &amp; Sensitization Programme</b>	Orientation	March 6-14, 2025.	Malaviya Mission Teacher Training Centre (Formerly TLC), from	Coimbatore Institute of Technology, Coimbatore
36	One-Day Workshop on <b>Seismic Safety Assessment of Dams jointly</b>	Workshop	January 10, 2025,	Indian Society of Earthquake Technology and The Institution of Engineers (India), Pune Local Center	ISSET and IEI
37	One-week Online FDP on <b>Fundamentals of Artificial Intelligence</b>	FDP	16 June 2025 to 20 June 2025	NITTTR Bhopal, Goa center	NITTTR Bhopal

38	One-Day Workshop <b>Earthquake resistance design of high-rise structure</b>	Workshop	25.07.2025	The Institution of Engineers Pune Local Centre, in association with Indian Society of Earthquake Technology	ISET and IEI
39	NITTT Module 2: <b>Professional Ethics and Sustainability</b>	MOOC Course	February 2025	National Initiative for Technical Teachers Training	AICTE
40	NITTT Module 4: <b>Instructional Planning and Delivery</b>	MOOC Course	February 2025	National Initiative for Technical Teachers Training	AICTE

## Details of Webinars Attended

1. Attended NPTEL online lecture on '*Joy of Teaching*' on 19/04/2020
2. Attended NPTEL online lecture on '*Entrepreneurship- What you should know before you take the plunge*' on 20/04/2020
3. Attended NPTEL online lecture on '*Towards explainable AI*' on 22/04/2020
4. Attended webinars arranged by ISET on '*Earthquake Engineering and Technology*'. On 09/05/2020
5. Attended Expert lecture on '*Job opportunities for engineering students post Covid-19*' organized by Indian Concrete Institute- Bangalore center on 11/05/2020
6. Attended and Motivated students to attend webinar on '*Innovating Self Screen and Identify right opportunities*' by IIC, MHRD on 13/05/2020.
7. Attended webinar arranged by ISET on '*Performance-Based Seismic Design of Structures*' On 16/05/2020
8. Participated in two days Webinar on "*Legal Aspects of Civil Engineering*" organized by Dr. Daulatrao Aher College of Engineering, Karad, 21 May 2020 to 22 May 2020
9. Attended webinar arranged by ISET on '*Relevance of Site Effect in Earthquake Resistant Construction*' On 23/05/2020.
10. Attended webinar arranged by ISET on '*Seismic Hazard Assessment*' On 27/05/2020.
11. Attended webinar arranged by AISSMS COE on '*Prefabricated Dry Construction Technology*' On 29/05/2020.
12. Attended webinar arranged by AISSMS COE on '*Pune Metro Rail Project*' On 29/05/2020.
13. Attended webinar arranged by ISET on '*Seismic Microzonation Studies in India*' On 30/05/2020.
14. Attended webinar arranged by ISET on '*Engineering Preparedness for Earthquake Disaster Mitigation*' On 03/06/2020.
15. Attended webinar arranged by ISET on '*Seismic Response of Retaining Walls*' On 06/06/2020.
16. Attended webinar arranged by Civil Engineering BOS, SPPU on '*Course Outcome & Taxonomy for Civil Engineering Branch*' On 06/06/2020 and 07/06/2020.
17. Attended webinar arranged by AISSMS COE on '*Inter-Disciplinary Alumni Student Interaction* (Mr. Jitendra Pethkar)' on 09/06/2020.
18. Attended webinar '*Coffee& Conversation with Alumni-Mr. Swapneel Deshpande* (Design Engineer & Head of Marketing at EMS LLC, Houston, USA.Co-Founder & Owner at ModernBlox LLC, USA)' organized by AISSMS College of Engineering, Pune on 11/06/2020.
19. Attended webinar arranged by ISET on '*On Structure-Equipment-Piping Interaction under Earthquake Excitation*' on 13/06/2020.
20. Attended webinar arranged by National Assessment and Accreditation Council (NAAC), Bangalore An on line address by Honorable Governor of Meghalaya Shri Tathagata Roy on '*Reflections of Higher Education Scenario – Post COVID-19*' on

NAAC web platform on 13/06/2020

21. Attended webinar arranged by Government Engineering College, Haveri, on 'Webinar 1.2 *Design thinking and IPR Process*' held on 14th June ,2020.
22. Attended webinar arranged by AISSMS COE, IEI, and GTGP on '*Employability Skills 2020- Post Covid-19*' on 14/06/2020.
23. Attended webinar arranged by IEI Centenary Webinar on '*Transforming Engineering Education: Emerging Scenario*' on 15/06/2020.
24. Attended webinar arranged by AISSMS COE on '*Webinar on Employability In Current Situation*' on 18/06/2020.
25. Attended webinar arranged by AISSMS COE on '*Opportunities for Civil Engineers in Transportation Engineering Field*' on 18/06/2020.
26. Attended '*Heartfulness Yoga Day- Virtual event*' organized by AISSM Society with Heartfulness Institute and Ministry of AYUSH, Govt. of India for 2020's biggest virtual event: International Yoga Day-21/06/2020
27. Attended webinar arranged by DDF Consultants Pvt. Ltd. and NIDM & supported by Institute of Engineers (India), on '*Understanding Earthquake Hazard In India and our Preparedness*' held on 19/06/2020.
28. Attended webinar arranged by ISET on '*Supplemental Damping and Energy Dissipation Devices*' on 20/06/2020.
29. Attended webinar arranged by ISET on '*Earthquake Early Warning System: Its Relevance for India*' on 27/06/2020.
30. Attended webinar arranged by IIT Madras '*New Online Initiative from IIT Madras. The launch*' on 30/06/2020.
31. Attended webinar arranged by '*MHRD - IIC Sponsored Online Impact Series - Intellectual Property Rights & Innovation - COVID-19 Challenges*' on 03/07/2020
32. Attended webinar on '*Evolving and aligning teaching-learning process for implementing engineering curriculum*' organized by NITTTR, Bhopal from 09/07/2020
33. Attended webinar on '*Gender Equality, Let's Rise from Shadows*' organized by AISSMS COE on 15/07/2020
34. Attended webinar on '*Online content delivery for BE Civil*' organized by AISSMS COE on 16/07/2020
35. Attended webinar on '*Virtual Labs: Hands-On Workshop for Faculty of all Engineering Disciplines*' organized by AISSMS COE on 18/07/2020
36. Attended webinar on '*Career Opportunities for Civil Engineers after Covid -19*' organized by AISSMS COE on 01/08/2020
37. Attended webinar on '*Application of Microsoft Project and Oracle Primavera EPPM P6 in Civil Engineering Projects*' organized by AISSMS COE on 11/08/2020
38. Attended webinar on '*Teaching AI with MATLAB*' organized by AISSMS COE on 12/08/2020
39. Attended webinar on '*Planning required during the Visit and Post Visit Activities*' organized by NITTTR on 25/08/2020
40. Attended webinar on '*Planning Action Plan to Prepare Institute for Accreditation*' organized by NITTTR on 27/08/2020
41. Attended webinar on '*Building an innovation/product fit for market*' organized by AISSMS COE in association with IIC and entrepreneurship cell on. on 28/05/2021

42. Attended webinar on ‘**World Environment Day**’ with Expert Session on “**Ecosystem Restoration**” organized by an Water Works Association, Pune in Association with Maharashtra Jeevan Pradhikaran, Water Resource Department (Govt. of Maharashtra), Marathi Vidnyan Parishad Pune, Sinhgad College of Engineering, AISSMS College of Engineering, Bharti Vidyapeeth Deemed University, and College of Engineering, Pune on 05/06/2021

### Courses completed

1. Completed course on “**MATLAB & Simulink**”, Department of Mechanical engineering, COEP, Pune, December 2012
2. Completed course on “**Vibrations in Structures**”, organized by Department of Civil Engineering, COEP (TEQUIP-II), from 14<sup>th</sup> to 18<sup>th</sup> July 2014 (1 week)
3. Completed course on “**Introduction to Structural Engineering**”, organized by IIT Kharagpur and ISTE, remote center COEP, 30<sup>th</sup> Nov. 2015 to 9<sup>th</sup> Jan. 2016 (2 weeks)
4. Completed a course on “**Seismic Vulnerability Assessment and Retrofitting of Existing Structures**”, organized at Department of Civil engineering, IIT Delhi, New Delhi, under Global Initiatives of Academic Networks (GIAN), MHRD approved, 21<sup>st</sup>- 25<sup>th</sup> August 2017 (1 week)
5. Completed a course on “**Design of Reinforced Concrete Structures**”, online course by NPTEL, July-Oct 2017 (12 weeks)
6. Completed course on “**Advanced Structural Dynamics**” 24<sup>th</sup>- 28<sup>th</sup> December 2018, Department of Civil engineering, COEP, under Global Initiatives of Academic Networks (GIAN), MHRD approved (1 week).
7. Completed a course on “**Mind Control: Managing Your Mental Health During COVID-19**”, 02 May 2020 to 02 June 2020, (4 Weeks), Coursera.
8. Completed one month ‘**Basic German language Online Course**’ online course by Foresight college of commerce, Pune in collaboration with Hallo Germany (Classes for German language, Pune) from 06 June 2020 to 09 July 2020 (One Month)

### Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level (National/Int/ State/Regional)	Year/ Date
01	As a <b>Session person</b> at Department of Civil Engineering, Imperial College of Engineering and Research, Wagholi, Pune.	‘ <b>5<sup>th</sup> Civil PG Con</b> ’	University	2018
02	As a <b>Resource person</b> at Department of Civil Engineering, SRTTC Faculty of Engineering, Kamshet, Pune	‘ <b>Seismic Coefficient Method and Introduction to Vibration</b> ’	University	2018
03	As a <b>Resource person</b> at Department of Civil Engineering, College of Engineering, Pune (COEP),	‘ <b>Research methodology</b> ’	University	2019
04	As a <b>Resource person</b> for topic in One week student Development Program “GATE examination coaching with Tips and Tricks	‘ <b>Free vibrations of undamped SDOF systems</b> ’	Institute	25/01/2021



## Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
01	Working as <b>PG Coordinator</b>
02	University <b>approved PG teacher</b> in the Department
03	Working as committee member of <b>women's grievance cell</b> .
04	Working as committee member of <b>grievance cell parents and students</b>
05	Working as committee member of <b>SC/ST cell</b>
06	Working as Departmental <b>NBA Criteria- II In charge</b>
07	Working as Committee Member in <b>Central Core Committee of NAAC at Institute level</b>
08	Working as <b>Faculty coordinator for IUCEE</b> (Indo Universal Collaboration for Engineering Education) <b>at Institute level</b>
09	Worked as <b>Departmental coordinator</b> for 2nd Hybrid National Conference on Innovation in Engineering and Technology - (NCIET 2022)
10	Working as <b>examiner and moderator</b> for subject Design of Reinforced Concrete Structures.
11	Working as <b>examiner</b> for subject Prestressed Concrete Structures.
12	Working as <b>examiner</b> for subject Earthquake Engineering.
13	Working as <b>examiner</b> for subject Research Methodology.
14	Worked as <i>Senior supervisor</i> and <i>Assistant senior supervisor</i> for the conduction of the university theory examinations.
15	Worked as a <b>FDP coordinator</b> for a one week national level FDP on "Earthquake Engineering and Vibration Control" funded by AICTE ATAL Academy, New Dehi.
16	Worked as <b>an Officer</b> in District level First year Centralized Paper Assessment team of SPPU in year 2024-25

## Awards Received

S. No.	Awards
01	PG project ' <i>Vibration Control of Structures using Customized Approach for Tuned Liquid Damper</i> ' awarded with <b>3<sup>rd</sup> prize</b> in Pune Construction Engineering Research Foundation (PCERF) Padmashree B. G. Shirke Vidyarthi Competition (2018)
02	<b>Best paper award</b> for the paper "Seismic response of RC elevated liquid storage tanks using semiactive magneto-rheological damper" <b>Online conference:</b> ACTM international conference organized by COEP on 11-12/03/2021
03	Received <b>Excellence Award in "Education and Research"</b> from The Great MG women's group in association with Institution of Engineers Pune Local Centre, Pune on 31/03/2024.

**Declaration:** I hereby declare that all the statement made above are correct to the best of my knowledge and belief.

*Dr. (Mrs.) Manisha V. Waghmare*

28 July 2025