



Department of Civil Engineering Faculty Profile

Mrs. Sonal A. Chavan

Ph.D. (Structural Civil Engineering)

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- <https://youtube.com/user/sonalsae>



Analysis and Design of Structures.

Personal Details

Date of Birth : November

Domicile: Maharashtra

Gender : Female

Blood Group: O+ve

Contact Details: B-408, Orchid Society, Raheja Garden, Wanowrie, Pune.

Academic Background Qualifications

S.N	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Civil Engineering	Pune	-	2025
2	M.E.	Civil-Structure	Pune University	1 st	2011
3	B.E.	Civil Engg.	Pune University	1 st Class with Distinction	2006

Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	15	03
2	Research	00	00
3	Industry	3	01
Total		18	04

Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	Number of times Subject Taught
1	Structural Design, III	UG	BE	01
2	Structural Design: I	UG	TE	01
3	Structural Analysis: I	UG	SE	03
4	Structural Analysis- II	UG	SE	02
5	Mechanics of Structure	UG	SE	04
6	Surveying	UG	SE	03
7	Earthquake Engineering	UG	BE	01
8	Mechanics of Material	UG	SE	01

Research Publications

	National	International	State	SCI/Scopus Indexed	UGC Approved
Journals	2	4	-	04	06
Conferences	5	-	-	00	05

Publication Details (Journals) - 02

S N	Document Analysis:	Authors	Year	Source Details	ISBN / ISSN	Publisher
01	Performance-based analysis: for vulnerability assessment of vertical irregularities in reinforced concrete structure with soil-structure interaction.	Chavan, S.A., Mate, N.U.	2025	<i>Innov. Infrastruct. Solut.</i> 10 , 101 (2025). https://doi.org/10.1007/s41062-025-01890-6		Springer Nature
02	Seismic Behavior of Regular and Vertically Irregular Reinforced Concrete Building by 3D and MDOF Mode	S. A. Chavan, N. U. Mate & A. A. Manchalwar	2023	<i>Proceedings of 17th Symposium on Earthquake Engineering (Vol. 2)</i>		Springer Nature
03	Vulnerability assessment of vertical irregularities in medium-rise reinforced	Sonal A. Chavan & Nilesh U. Mate	2025	<i>Asian J Civ Eng</i> 26 , 2255–2273 (2025). https://doi.org/10.1007/s42107-024-01260-0		Springer Nature

	concrete structures using lead rubber bearing					
04	Seismic Effect on medium rise reinforced concrete building considering vertical irregularity under the effect of soil structure interaction	S. A. Chavan, N. U. Mate & A. A. Manchalwar	2024	<i>REcent Development in Structural Engineering</i>		Springer Nature
05	Study of Ergonomics and safety in high rise building	Prof. S.A.Chavan, hrishikesh bagul, pratik chavan, ganesh nelwade, prashant sabale	2021	<i>International Journal of Innovative Research in Technology(IJIRT)</i> , Paper ID : 148297,Pg. No. 192-197, Vol. 6, Issue 1, June 2019.,	ISSN: 2349-6002	-
06	Supply Chain management in the Residential Construction sector.	Deshmukh P. S., More A. B., Chavan S. A.	2020	<i>International Journal of Engineering and Advanced Technology(IJEAT)</i> , Paper Pg. No. 87-90, Vol. 4, Issue 2, December14	ISSN : 2249-8958	-

Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
National Conference (02)						
01	Planning and Designing of High Rise Sustainable Building	Mihir Bhamare, Ganesh Aivale, Maheshwari Pise, Sarang Shiral and Mrs. Sonal Chavan	2022	2 nd National Conference of Engineers and Technology 2022	-	AISSMS's COE, Pune
02	A design of Eco-friendly Bitumen by adding Plastic Waste	Mrunali Kurade, Durgesh Chaudhari, Dakshata Gaikwad and Sonal Chavan	2022	2 nd National Conference of Engineers and Technology 2022	-	AISSMS's COE, Pune

03	Seismic Behavior of Regular and Vertically Irregular Reinforced Concrete Building by 3D and MDOF Models	S. A. chavan, N. U. Mate and A. A. Manchalwar	2022	17th Symposium in Earthquake Engineering, 643-659		IIT Roorkee
04	Seismic Effect on Medium Rise Reinforced Concrete Building Considering Vertical Irregularities Under the Effect of Soil-Structure Interaction	S. A. chavan, N. U. Mate and A. A. Manchalwar	2023	13th Structural Engineering Convention (SEC-2023)		VNIT, Nagpur
05	Effectiveness of base Isolation over bracing	Mrs. Sonal A Chavan and Niyaz F. Inamdar	2026	National Conference on Civil and Structural Engineering (NCCSE-26)		Nexa Research

Patents/IPR Filed/ Granted

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
IEI	National	Life Membership	M-159283-6
Solar Energy Society of India	National	Life Membership	LM/2517/2021

Details of Workshop / STTP / FDP / Conferences Attended

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
01	One week FDP on vision-mission-PEO-PSO-PO-CO: Framing, mapping, assessment and attainment	Workshop	10-15 June 2019	Centre of excellence in teaching and learning of AISSMS College of Engineering, Pune from	-
02	Faculty development program on earth and environmental responses during covid-19 of seven days conducted at the	FDP	11th July to 17th July 2020	MHRD's organised	SPPU Pune

	department of environmental sciences ,SPPU pune.				
03	A Refresher course in teacher educators conducted at the department of education and extension, SPPU pune,	Refresher course	10th February to 23rd February 2020.	HRDC organised	-

Major Professional Responsibilities Handled

S. No.	Role and Responsibilities
01	Worked as Department level ERP Coordinator in AY 2016-18
02	Working as a Departmental Calendar Incharge Since 2019 to till Date
03	Worked as Class GFM Since 2015 to 2022
04	Working as Industry Institute Interaction co-ordinator from 2025 onwards
05	Worked in department consultancy Projects

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

Mrs. Sonal A. Chavan

(Name with Signature)