



## Department of Civil Engineering

### Faculty Profile



### Prof.(Dr) Ravindra D Nalawade

Ph.D (Civil Engineering)

Dean Institute Industry Interaction,

Associate Professor & NBA Coordinator

✉ [rdnalawade@aissmscoe.com](mailto:rdnalawade@aissmscoe.com)

[dean.iiinteraction@aissmscoe.com](mailto:dean.iiinteraction@aissmscoe.com)

☎ (020) 26058587

🔗 [https://scholar.google.co.in/citations?hl=en&user=jwdlC0AAAAJ&view\\_op=list\\_works&gmla=AJsN-F4X0zuBDUdd9V8zuXEVsWi4RKk1imxEgEbXbcAnpr1VR3xgdp4UhYN3bPHqeBbWz5mAF5\\_Zni7JEI1IGKZ1YQP-k8LyhZ4UwVhzOsjoxd8R-mAlks](https://scholar.google.co.in/citations?hl=en&user=jwdlC0AAAAJ&view_op=list_works&gmla=AJsN-F4X0zuBDUdd9V8zuXEVsWi4RKk1imxEgEbXbcAnpr1VR3xgdp4UhYN3bPHqeBbWz5mAF5_Zni7JEI1IGKZ1YQP-k8LyhZ4UwVhzOsjoxd8R-mAlks)

🔗 <https://orcid.org/0000-0003-4931-4660>

### Research Areas / Areas of Interest

Soil Stabilization Techniques,  
Sustainability in Civil Engineering Projects,  
Geotechnical Investigation and Interpretation,  
Application of Geo-synthetics material in civil  
Engineering, Landslides and Slope Stability Analysis,  
Geogrid Reinforced Earth wall of Flyover,  
Foundation design and remedial techniques.  
Innovative materials for road construction

## Personal Details

**Date of Birth :** 12 / 02/ 1976

**Domicile:** Maharashtra

**Gender :** Male

**Blood Group:** AB<sup>+</sup>ve

**Contact Details:** C 204, Sai Laurel, Dnyanesh park, Lane 4, Near Krishna Chowk,  
Pimple Gurav, Pune – 411061

## Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D.	Civil Engineering	Pune	--	Dec 2020
2	M.Tech.	Civil– Geotech Engg.	Pune	1 <sup>st</sup>	May 2007
3	B.E.	Civil Engineering	Kolhapur	Distinction	May 1998
4	Diploma	Civil Engineering	DTE, Mumbai	Distinction	May 1995

## Work Experience

S. No.	Type of Experience	Years	Months
1	Teaching	27	-
2	Research	-	-
3	Industry	-	-
4.	Others	--	--
<b>Total</b>		<b>27</b>	<b>-</b>

## Subjects / Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1	Geotechnical Engineering	UG	SE (Civil)	24
2	Foundation Engineering	UG	TE (Civil)	24
3	Engineering Mechanics	UG	FE (All)	10
4	Basic Civil Engineering	UG	FE (All)	10
5	Quantity Surveying, Contract & Tenders	UG	BE(Civil)	10
6	Transportation Engg	UG	BE(Civil)	05
7	Concrete Technology	UG	SE (Civil)	03
8	Advance Concrete Tech	UG	BE(Civil)	02
9	Construction Technology	PG	ME(Civil-CM)	02
10	Construction Contracts Administration and Management	PG	ME(Civil-CM)	01

## Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
<b>Journals</b>	07	18	-	14	09
<b>Conferences</b>	07	04	02	01	--

## Publication Details (Journals)

Sl. No	Document Details	Authors	Year	Source Details	ISBN / ISSN	Publisher
1	Mathematical Modelling of Turbulent Flows Using Advanced Computational Fluid Dynamics Techniques	Dr. R D Nalawade	2025	Metallurgical and Materials Engineering	ISSN No: 2812-9105	TechnoFit Academic Publishers LLC, United States
2	Microbial Production of Green Polymer Xanthan Gum From Xanthomonas Campestris	Dr. A S Jadhav & Dr. R D Nalawade	2025	Biochemical and Cellular Archives	ISSN No: 0976-1772	
3	Adsorption Study of Rhodamine-B (RhB) on Activated Carbon derived from Coconut Leaves	Dr. A S Jadhav & Dr. R D Nalawade	2025	International Research Journal of Biotechnology	ISSN: No: 2141-5153	International Research Journals, USA
4	Effective Teaching and Learning Practices: Strategies for Academic Success and Student Engagement	Dr. A S Jadhav & Dr. R D Nalawade	2025	Meerayan Journal	ISSN No: 2455-6033	Meera Smriti Sansthan

5	Analysis of potential incorporation of waste into asphalt pavements	Dr. R D Nalawade	2024	Materials Today Proc.	ISSN: 2214-7853	ELSEVIER, (Science Direct).
6	Stability of road embankment using geotextile with the plaxis 2D	Dr. R D Nalawade	2024	Alochana Journal	ISSN: 2231-6329	Rajkamal Prakashan
7	Study of influence of carbonized temperature on surface morphology of Grape Stalk.	Dr. A S Jadhav & Dr. R D Nalawade	2024	Alochana Journal	ISSN: 2231-6329	Rajkamal Prakashan
8	Slope stability assessment of landslide using plaxis 2D	Dr. R D Nalawade	2024	Alochana Journal	ISSN: 2231-6329	Rajkamal Prakashan
9	Modification in strength parameter (CBR) of sub-grade soil with addition of Fly Ash	Dr. R D Nalawade & Dr. A S Jadhav	2024	Alochana Journal	ISSN: 2231-6329	Rajkamal Prakashan
10	Predication of CBR Values using Machine Learning Algorithms.	Dr. R D Nalawade & Dr. A S Jadhav	2024	Alochana Journal	ISSN: 2231-6329	Rajkamal Prakashan

11	Zero Energy Building: A Future of Construction Industry	Dr. R D Nalawade & Kapil Shalgar	2023	The Indian Journal of Technical Education.	ISSN 0971-3034	Indian Society for Technical Education.
12	Prediction of Abrasive wear behaviour of the Poly-Tetra-F using adaptive Neuro Fuzzy Interface Systems	Dr.D Y Dhande & Dr.R D Nalawade	2023	Journal Tribologi	ISSN: 2289-7232	Malaysian Tribology Society
13	Tests for Evaluating Efficacy of Phosphoric Acid Activated Charcoals from Two Biomasses	Dr. A S Jadhav & Dr. R D Nalawade	2023	Nature Environment and Pollution Technology	ISSN 0972-6268(Print ); ISSN 2395-3454 (online)	Techno-science Publications
14	Landslides, Rainfall Triggered Landslides of Slopes by Passive Piles	Dr. R D Nalawade	2023	Annals of Forest Research	ISSN: 1844-8135 E-ISSN: 2065-2445	Forest Research Management Institute Icas, Romania
15	Numerical Analysis and field behavior of stone columns - strengthened soft clay deposit using PLAXIS 2D	Dr. R D Nalawade	2023	European Chemical Bulletin	ISSN 2063-5346	Deuton-X Ltd, Hungary

16	Fractal Model to Interpret Porosity-Dependent Hydraulic Properties for Unsaturated Soils	Dr. R D Nalawade	2023	Computer Integrated Manufacturing System	ISSN 1006-5911	Beijing Advanced Manufacturing Technology Consultation Center
17	Influence of swelling rock with drying-wetting cycles on stability of canal slope.	Dr. R D Nalawade	2022	Chinese Journal of Geotechnical Engineering	ISSN: 1000-4548	Editorial office of Chinese Journal of Geotechnical Engineering
18	Pavement evaluation and applications of Geo textiles in pavements.	Dr. R D Nalawade	2022	Chinese Journal of Geotechnical Engineering	ISSN: 1000-4548	Editorial office of Chinese Journal of Geotechnical Engineering
19	Geotechnical characterization of soil slopes a tool in determining	Dr. R D Nalawade	2022	Chinese Journal of Geotechnical Engineering	ISSN: 1000-4548	Editorial office of Chinese Journal of Geotechnical Engineering
20	Stabilization of soil using waste plastic fibre and kitchen waste.	Dr. R D Nalawade	2022	Chinese Journal of Geotechnical Engineering	ISSN: 1000-4548	Editorial office of Chinese Journal of Geotechnical Engineering

21	Evaluation of Geotechnical Properties and Microstructure Analysis Lime Blended Black Cotton Soil	R D Nalawade & Dr. P D Jadhao	2020	International Journal on Emerging Technologies 11(4): 423-428	ISSN No. (Print): 0975-8364 ISSN No. (Online): 2249-3255	Research Trend
22	Prediction of CBR Value of Stabilized of Black Cotton Soil use for Road Construction	R D Nalawade & Dr. P D Jadhao	2020	International Journal of Engineering and Advanced Technology (IJEAT)	ISSN 2249-8958	IJEAT
23	Effects of Hydrated Lime in Stabilization of Black Cotton Soil	R D Nalawade & Dr. P D Jadhao	2019	International Journal of Engineering and Advanced Technology (IJEAT), 8(5),	ISSN 2249-8958	IJEAT
24	Reaction Mechanism of Chemical Stabilization in Expansive Soil	R D Nalawade & Dr. P D Jadhao	2016	Electronic Journal of Geotechnical Engineering 21(21), 7227-7234.	ISSN 1089-3032	Oklahoma State University



25	Stabilization of Black Cotton Soil using admixtures	R D Nalawade & P R Modak	2012	International Journal of Engineering and Innovative Technology (IJEIT)	ISSN No. 2277-3754	IJEIT
----	---	--------------------------	------	--	--------------------	-------

### Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
1	Sustainable Reinforcement for Landslide Mitigation	Dr. R D Nalawade	2025	5th National Conference on Innovation in Engineering And Technology	-	ISTE Sponsored, AISSMS COE PUNE
2	Utilization of recycled construction material- Sustainable Approach	Dr. R D Nalawade	2025	5th National Conference on Innovation in Engineering and Technology - NCIET 2025)	-	ISTE Sponsored, AISSMS COE PUNE
3	Assessment Bamboo as a reinforcement material for preventing	Dr. R D Nalawade	2024	4th National Conference on Engineering and		ISTE Sponsored, AISSMS COE PUNE

	landslides			Technology NCIET 2024		
4	Utilization of waste construction material in pavement construction	Dr. R D Nalawade	2024	4th National Conference on Engineering and Technology NCIET 2024		ISTE Sponsored, AISSMS COE PUNE
5.	Zero Energy Building- A Future of Construction Industry	Dr. R D Nalawade & Kapil Shalgar	2023	International Conference on Green Energy	-	AISSMS COE PUNE
6	Analysis of soil bearing capacity by Plaxis software	Dr. R D Nalawade	2022	2 <sup>nd</sup> National Conference on Innovation in Engineering & Technology	-	AISSMS COE PUNE
7	Assessment of Industrial by-product in Geotechnical Application	R D Nalawade & Dr. PD Jadhao	2015	50 <sup>th</sup> Indian Geotechnical Conference (IGC-2015) during 17 to 19 December 2015 at COEP, Pune, India.	-	IGS (New Delhi) in association with IGS Pune chapter and CWPRS Pune.

8	Stability and Cost Aspect of Geogrid Reinforced EarthWall of Flyover	R D Nalawade	2007	12 <sup>th</sup> International Conference of International Association for computer method and Advance in Geomechanics (ICACMAG) during 1 to 6 October 2008 at Goa, India, pp- 3770-3776	-	IIT (Powai) Mumbai. (SCOPUS)
9	Stability of Geogrid RE Wall	R D Nalawade	2008	4 <sup>th</sup> European Geosynthetics Conference 2008, Scotland U.K. on 7 to 10 Sept. 2008	-	U.K. chapter of the International Geosynthetics Society.
10	Design and Stability Aspects of Geogrid Reinforced Earth Retaining Wall	R D Nalawade	2007	National Level Conference on Recent Trends in Civil Engineering, during 09-10th March 2007	-	RIT Islampur

11	Stabilization of Black Cotton Soil using fly ash	R D Nalawade	2012	Annual Technical Paper Meet 2012, at Institution of Engineers' (I), Pune Chapter, Pune	-	Institution of Engineers' (I), Pune Chapter
12	Reinforced flyash slop using different Geosynthetics	R D Nalawade	2016	Regional Research conference, INNOVATION	-	BCUD SPPU, Pune

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

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	04	260

#### Professional Memberships

Professional Body	Level ( National/ International)	Type (Fellow/Life/Annual)	Membership No.
Indian Society for Technical Education	National	Life	LM29695
Indian Geotechnical Society (New Delhi)	National	Life	LM2497
IGS –Pune	State	Life	-

## Patents / IPR Filed / Granted

S. No	Investigator Details	Title	Year	Status (Filed/Granted)	Details
1	Dr. R D Nalawade	Geo- Grid Skirt footing for Civil Construction.	2024-25	Published	Design Patent
2	Dr. R D Nalawade	Advanced Vibration Dampening Suspension System	2024-25	Published	Design Patent
3	Dr. R D Nalawade	AI based device for Traffic Management and Navigation	2023-24	Granted	Design Patent (UK)
4	Dr. R D Nalawade	Total 02 Title	2023-24	Published	Utility Patent
5	Dr. R D Nalawade	Total 13 Title	2022-23	Published	Utility Patent

## Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number
1	Research Methodology	R K Publications	ISBN:978-93-95331-78-4

## Research Grants Received

S. No	Program	Duration	Funding Agency	Grant Amount
1.	Research Proposal of Reinforced fly ash Slopes with Geosynthics	2014-16	BCUD, SPPU, Pune	INR 2 Lacs

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

Sl. No	Title	Type	Duration	Level (State/National / International)	Sponsoring Agency
1	IGS Maharashtra Chapters event 'Mahafest' on theme Tunneling and Underground Structures	workshop	12/9/2023 & 13/9/2023	National	IGS New Delhi
2	IGS Pune Chapter's "Bharat Ratna Sir M. Visvesvaraya Annual Lecture" at COEP	Seminar	30/9/22	National	IGS Pune
3	Geotechnical Engineering Yesterday, Today & Tomorrow	Seminar	11/3/22	National	Shirke & IGS Pune
4	IGS Student chapter & expert talk	webinar	3/2/22	National	IGS Pune
5	Bharat Ratna Sir M. Visvesvaraya Annual Oration	Annual Oration	05/9/2021	National	IGS Pune and Garware ropes
6.	Geotechnical case studies for Infrastructure Projects	Workshop	12/6/2021	National	IGS
7.	Innovative solution for Earth retention structure	webinar	16/10/2020	National	IGS

8.	Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment	FDP	One week, 10 and 15 June 2019	State	ISTE
9.	Modern Pedagogy and Recent Technological Development	Orient ation Progra mme	One week, 10 and 14 Dec 2018	State	ISTE
10.	Dam Rehabilitation – Trends and Practices	Works hop	13-14 Oct 2016	National	CWPRS, Pune
11	Geotechnics for Infrastructure and Foundation Techniques	Confer ence	17 Dec. to 19 Dec. 2015	International	IGS, New Delhi
12.	Recent Advances in Rock Mechanics	Works hop	11 Apr. to 13 Apr. 2015	National	COEP

### Contribution as Resource Person

S. No.	Place/ Organization	Topic	Level (National/Int/ State/Regional)	Date
1	MIT Chhatrapati Sambhajinagar	Indian Geotechnical conference 2024	International	19 to 21 Dec 2024
2	IGS Pune & Jaihind COE Kuran	One-week workshop on 'Recent Trends in Geotechnical Engg	National	25 June 2024
3	Dr. D Y Patil IOT, Pune	Karl Von Terzaghi Technical Session Series	National	24 April 2024

4	PCET's PCCOER, Ravet, Pune	National Level Geofest-24 Technical event	National	5,6 April 2024
5	AISSMS COE, Pune	NBA Accreditation & its benefits	-	27 Aug 2021
6.	AISSMS COE, Pune	GATE Examination Coaching with Tips and Tricks in Soil Mechanics	Regional	29 Jan 2021
7	Dr. D A COE, Karad	Utilization of mineral admixture for improvement of expansive soil	State	08 March 2017
8	PCCOE, Pune	Geotechnical Practical Practice.	State	09 June 2017

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

S.N	Title	Type	Duration	Organizer	Sponsoring Agency
1	Emerging Trends in Construction Practice	FDP	One week 03/10/2023 to 07/10/2023	C. K. Pithawala College of Engineering & Technology, Surat	IEI
2	NLP and ChatGPT Applications	FDP	One week 14/8/2023 to 19/8/2023	SECAB Institute of Engineering & Technology	IIC



3	Recent Advancements in Sustainable Development through Renewable Energy Systems	FDP	Two week 07/3/2022 to 16/3/2022	Engineering College, Bikaner (Rajasthan).	TEQIP
4	Project Based Learning	STTP/Refresher Program	One week 21/03/2022 to 25/03/2022	AISSMS COE Pune	
5	Geotechnical Aspects of Pile Foundations	STTP	One week 21/03/2022 to 25/03/2022	NITTTR (Kolkatta)	AICTE
6	Machine Learning ( With Python)	STTP	One week 08/02/2022 to 12/02/2022	Dr. J. J. Magdum College of Engineering, Jaysingpur	AICTE
7	Experiential learning in Geotechnical Engineering	FDP	one week, 06/12/2021 to 10/12/2021	Visvesvaraya National Institute of Technology	ATAL
8	Design Thinking: Aspirations for Innovations	FDP	one week, 29/11/2021 to 03/12/2021	AISSMS COE Pune	ATAL
9	NBA Accreditation Issues	STTP	One week, 22/11/2021 to 26/11/2021	NITTR, Kolkatta	

10	NBA Accreditation and Teaching – Learning in Engineering (NATE)	FDP	(1.5 week), Jan to Apr.2020 (12 Weeks)	(IIT) Madras	NPTEL- AICTE
11	Vision-Mission-PEO- PSO-PO-CO: Framing, Mapping, Assessment and Attainment	FDP	10-15 June 2019	AISSMS College of Engg, Pune	ISTE
12	Modern Pedagogy and Recent Technological	Orientation Programme	One week 10 and 14	AISSMS College of	ISTE & IE(I)

13	Geotechnical Engineering Laboratory	FDP	July to Aug.2017 (04 Weeks)	(IIT) Bombay	NPTEL- AICTE
14	Geotechnics for Infrastructure and Foundation Techniques	International Conference	17 Dec. to 19 Dec. 2015	COEP, Pune	IGS (New Delhi)
15	Advances in Geotechnical Engineering	STTP	One week 11 May. to 15 May 2015	(IIT) Bombay	AICTE - QIP
16	Geotechnics for Inclusive Development of India	International Conference	18 Dec. to 20 Dec. 2014	JNTU, Kakinada (AP).	IGS (New Delhi)

## NPTEL COURSE COMPLETED

Sl. No.	Name of Course
1.	Geology and Soil Mechanics (Jan-April 2023) (12 week)
2.	Subsurface Exploration: Importance and Techniques Involved (Jul-Sep 2022) (08 week)
3.	NBA Accreditation & Teaching-Learning in Engineering (NATE) (Jan-April 2020) (12 week)

4	Unsaturated Soil Mechanics (Jul-Oct 2018) (12 week)
5	Geotechnical Engineering Laboratory (Jul-Aug 2017) (4 week)

### Major Professional Responsibilities Handled

Sl. No.	Role and Responsibilities
1	Dean Institute industry interaction, AISSMS COE PUNE
2	Asst. Cap Director –Engineering Exam (SPPU) PUNE
3.	‘Treasurer’- Indian Geotechnical Society, New Delhi. (Pune Chapter) since 2012.
4.	‘Treasurer’- 50 <sup>th</sup> Indian Geotechnical Conference (IGC 2015), at COEP.
5	Member – College development Committee (CDC), AISSMS COE
6.	Member – LIC and Staff Selection Committee Engineering (SPPU Pune)
7.	NBA Coordinator – Department of civil Engineering
8	Expert Member- Unnat Bharat Abhiyan Committee (Institute level)
9	Member –Institute Image Building Committee
10	Coordinator – Competitive Exam cell (Institute level)
11	Coordinator – Aadhar Linking Biometric student Attendance system
12	In charge – Geotechnical Engineering Lab
13	Coordinator- Student activates and development
14	Member – Sport and Cultural Committee
15	Member – Student welfare Committee
16	Chairman – Geotechnical Engineering, Subject SPPU Pune
17	Senior Supervisor- Pune University Theory Exam
18	Coordinator - Farewell function of Final year students
19	Coordinator -Students Activities & Alumina Association of department (14Years).
20	Member of College Level Committee for “Earn & Learn Scheme” run by University of Pune.(4 Years)
21	Chairman – ME (Civil –Geotechnical Engineering) Geo-enviroment Engg, SPPU Pune
22	Member – Faculty Development Program (FDP) Committee (2017, 2018).
23	Coordinator – (CITP) Training and placement Department (5 Years)

24	Coordinator - Poster Presentation Civil Post Graduate Conference (2016).
25	Chairman – stock verification of various Department
26	Chairman – Various committee of Shivanjali (Cultural event)
27	Overall Coordinator – AISSMSCOE “Engineering Today”, National Level Technical Event (2011 & 2012)
28	Coordinator – (ARC) AISSMSCOE Centre, Organized by DTE Mumbai (2010).

29.	Chief Test Administrator (CTA) – MBA and MCA Entrance test Organized by DTE Mumbai (2008).
30	Coordinator - Indian Concrete Institute News Letter (Pune Centre) published by ICI Pune Chapter (2004 to 2008).
31.	Coordinator - Time Table of Department (5 Years).
32	Member FE Admission Committee. (5 Years)
33.	Member Industry Institute Interaction Cell. (2 Years)
34	Member of Academic Calendar committee (2 Years)
35.	Naac coordinator – Criteria 3 (Since 2017).
36.	Founder Faculty Advisor - Civil Engg Students Association (2002)

### Awards Received

Sl. No.	Awards
1	NPTEL DISCIPLINE STAR – Civil Engineering, Centre of Continuing Education, NPTEL IIT Madras.2024.
2	As a ‘Treasurer’ IGS-AIMIL Best Local Chapter in India award to IGS Pune Chapter in recognition of outstanding overall performance 3 consecutive year 2023,2022,2021.
3.	Indo- Asian best researcher Award 2021 – Geotechnical Engg
4.	1 <sup>st</sup> Topper in Government Polytechnic, Karad & all over Maharashtra 18 <sup>th</sup> Rank

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

**31 July 2025**

**Dr. R D Nalawade**