



## Department of Civil Engineering Faculty Profile

Dr. Vivek S Chavhan

DCE, BE, MTech (Civil- Hydraulics.), Ph.D  
(Civil Engineering)

Assistant Professor



[vschavhan@aisssmscoe.com](mailto:vschavhan@aisssmscoe.com)

☎ P: +91-020-26058587, 26057660 M:  
+91-9767193755, +7397937383

<https://scholar.google.co.in/citations?user=a5VV-GUAAAAJ&hl=en>

### ResearchAreas/ Areas of Interest

Hydraulics, Model study, CFD simulation, Hydrology, Water Resources Engineering.

### Personal Details

**Date of Birth :** 20 / 07 / 1980

**Domicile:** Maharashtra

**Gender :** Male

**Blood Group:** B+ve

**Contact Details:** Flat No-201, Sahil apartment, suksagar Nagar, Pune-411048.

### Academic Background

S. NO.	Qualification	Specialization	University	Class/Grade	Year of Passing
1	Ph.D	Civil Engineering	SPPU	-	2022
2	M.Tech	Civil -Hydraulics	BVCOE	Distinction	May 2015
3	B.E.	Civil Engineering	SPPU	1st	June 2004

### Work Experience

S. No.	Type of Experience	Years	Months
1	Site Experience	1	0
1	Teaching	20	0
<b>Total</b>		<b>21</b>	<b>0</b>

### Subjects/Courses Taught

S. No.	Subject	UG/PG	Class (FE/SE/TE/BE/ME)	No of times Subject Taught
1.	Basic Civil & Environmental Engg.	UG	SE (Civil Engineering)	4
2.	Engineering Mechanics.	UG	SE (Civil Engineering)	4
3.	Fluid Mechanics-I	UG	SE (Civil Engineering)	8
4.	Fluid mechanics-II	UG	TE (Civil Engineering)	8
5.	Hydrology and water resource Engg	UG	TE (Civil Engineering)	10
6.	Dams and Hydraulics Structure.	UG	BE (Civil Engineering)	02
7.	Hydropower Engg.	UG	BE (Civil Engineering)	5
8.	Transportation Engg.	UG	BE (Civil Engineering)	1
9.	Strength of material.	UG	SE (Civil Engineering)	1
10.	Building Construction.	UG	SE (Civil Engineering)	3
11.	Building planning and Built Environment.	UG	SE (Civil Engineering)	3

### Research Publications

	National	International	State	SCI/ Scopus Indexed	UGC Approved
<b>Journals</b>				6	9
<b>Conferences</b>		5	---	--	--

### Publication Details (Journals)

Sr. No	Title of Paper	Name of Journal and Publisher	Volume / Issue no./Page no.	Publication Month and Year /Date
1	Model study to minimize scour in tail channel of ski-jump bucket energy dissipator using deflectors	ASEAN Engineering Journal. ISSN 2586-9159 <b>Indexing: Scopus.</b>	Vol. 12 No. 2: PP 249-256	June 2022
2	Prediction of Compressive Strength of High Strength Concrete using Artificial Intelligence and Machine Learning Techniques	Material Science and Technology. ISSN: 1005-0299 <b>Indexing: Scopus.</b>	Vol.22 No.10 PP 136-147	Oct. 2023
3	Controlled Ski-jump Spillway Model Design According to IS code	International Journal of Engineering and Advanced Technology (IJEAT). Elsevier ISSN:2249- 8958 <b>Indexing: Scopus. (At the time of publication, the journal was in SCOPUS.)</b>	Volume - 9 Issue – 3. PP 3107-3110	February 2020
4	Trajectory Features and Energy Dissipation of Conventional and Modified (Deflector) Ski-Jump Bucket.	Materials Today: Proceeding, Science direct ISSN 2214-7853 <b>Indexing: Web of Science SCIE</b>	Volume 49, Part 5, Pages 1973-1979	7 January 2022.
5	Experimental study on high performance concrete using rice husk ash	Materials Today: Proceeding, Science direct ISSN 22147-853 <b>Indexing: Web of Science SCIE</b>	Online	11 November 2023
6	CFD in Hydraulic Modeling.	International Journal of Future Generation Communication and Networking. ISSN: 2233-7857 <b>Indexing: Web of Science, ESCI. (At the time of publication, the journal was in Web of Science, ESCI.)</b>	Vol. 13, No. 4, (2020), pp. 623–627	September 2020

7	Micro Hydro Power Generation in India-A Review	River and Coastal Engineering <b>Springer</b>	Volume 117 pp 279–285	04 August 2022
8	Stabilization of black cotton soil using admixtures	International Journal of Engineering and Innovative Technology. ISSN 2277-3754 <b>UGC Journals (Old List),</b>	Vol. 1, Issue 5. PP 1-3	May 2012
9	Aerobic Thermophilic Composting of Municipal Solid Waste	International Journal of Engineering Science and Technology. ISSN : 0975-5462 <b>UGC Journals (Old List),</b>	Vol. 5 No.03 PP 716-718	March 2013
10	Estimation of correlation between string angle and velocity of flow by using balls of different material and different diameter in laboratory flume	International Journal of Advances in Engineering & Technology, ISSN: 2231- 1963 <b>UGC Journals (Old List),</b>	Vol. 7, Issue 6, pp. 1851-1856	Jan., 2015
11	Application of GFRP for concrete structure	Journal of Emerging Technology and Innovative research. ISSN-2349-5162 <b>UGC Journal</b>	Volume 10 Issue 6 Pp 1-6	June 2023
12	To study mechanical properties of concrete using silica fume and steel fibre	Alochana Journal. ISSN: 2231-6329. <b>UGC Journals</b>	Volume 13 Issue 5. pp 1138-1146	May 2024
13	Comparative study of the partial replacement of cement using hypo sludge and fly ash	Alochana Journal. ISSN: 2231-6329. <b>UGC Journals</b>	Volume 13 Issue 5. pp484-491	May 2024
14	Experimental results of ski-jump based on deflectors	Industrial Engineering Journal, ISSN: 0970-2555	Volume : 53, Issue 7, No.3,	July 2024
15	Measurement of Velocity of Flow in Open Channel by Hydrometric Pendulum	International journal of novel research and development, ISSN: 2456-4184	Volume 9, Issue 7	July 2024

### Publication Details (Conferences)

S. No	Document Details	Authors	Year	Conference Details	ISBN	Organised by
-------	------------------	---------	------	--------------------	------	--------------

	“Hydraulic model study of ski-jump bucket energy dissipator with and without deflectors”,	V S Chavhan	2017	International Conference on recent innovations in engineering & technology		ISH
1.	SKI-JUMP HYDRAULICS BASED ON DEFLECTOR	V S Chavhan	2020	International Conference on recent innovations in engineering & technology		TSSMs BSCOER Pune

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

Level	Ph.D.	M.E. (PG)	B.E. (UG)
No. of Student guided	-	2	104

### Professional Memberships

Professional Body	Level (National/ International)	Type (Fellow/Life/Annual)	Membership No.
Indian Society of Hydraulics	National	Life	LM 1321
Institution of Engineers (India)	National	Life	M-160529-6
IWWA	National	National Life	Life

<b>SESI</b>		National		National				Life
-------------	--	----------	--	----------	--	--	--	------

### Books Published

S. No	Title	Name of the Publisher	ISBN/ISSN Number
1	Concrete Technology	Technical Publications	978-9350996607
3	Building Technology and Materials	Technical Publications	978-9350991541

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

S. N	Title	Type	Duration	Organizer	Sponsoring Agency
2	Vision-Mission-PEO-PSO-PO-CO: Framing, Mapping, Assessment and Attainment	FDP	10-15 June 2019	AISSMS College of Engg, Pune	ISTE

S. No.	Role and Responsibilities
1	ET Coordinator,
2	Lab incharge Fluid Mechanics lab

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

**Dr. Vivek S Chavhan**