



STRONG EDUCATIONAL FOUNDATION TO ADVANCE YOUR CAREER

# Department of Civil Engineering

## Newsletter

Volume 8 Issue 1

June 2025

### Department Vision:

To be the leading department providing quality education to develop competent Civil Engineers, Entrepreneurs, and innovators to serve the nation.

### Department Mission:

M1- To provide quality technical education.

M2- To prepare competent students for employment.

M3- To focus on developing values and professional skills.

### Program Educational Objectives:

1. To ensure that graduates will have a mastery of fundamental knowledge, problem solving skills, engineering experimental abilities, and design capabilities necessary for entering civil engineering career and/or graduate school.

2. To incorporate verbal and written communication skills necessary for successful professional practice.

3. Demonstrate knowledge of management principles and engineering techniques for effective project management.

4. To prepare graduates to deal with ethical and professional issues, taking into account the broader societal implications of civil engineering

## January-February-March 2025

### 1. FDP/STTP/ Webinars attended by the faculty members

Faculties from Civil Engineering has attended FDP/ STTP/ Workshop/ Webinars on various topics.

The details are given below.

### FDP/Workshops

Name of faculty	Name of FDP	Date	Place
Dr. S.J. Kadbhane	Sustainable Smart Cities: Integrating Technologies And Infrastructure	6/1/2025 to 11/1/2025	Nashik





<b>Dr. S. M. Waysal</b>	Sustainable Smart Cities: Integrating Technologies And Infrastructure	6/1/2025 11/1/2025	to	Nashik
<b>Dr. K. T. Patil</b>	Sustainable Smart Cities: Integrating Technologies And Infrastructure	6/1/2025 11/1/2025	to	Nashik
<b>Mr. P. D. Aher</b>	Sustainable Smart Cities: Integrating Technologies And Infrastructure	6/1/2025 11/1/2025	to	Nashik
<b>Mrs. S. A. Thombare</b>	Sustainable Smart Cities: Integrating Technologies And Infrastructure	6/1/2025 11/1/2025	to	Nashik
<b>Dr. M. C. Aher</b>	Sustainable Smart Cities: Integrating Technologies And Infrastructure	6/1/2025 11/1/2025	to	Nashik
<b>Ms. A. K. Ugale</b>	Sustainable Smart Cities: Integrating Technology and Infrastructure	06/01/2025 11/01/2025	to	Nashik
<b>Mr. M. B. Patil</b>	Waste Water treatment and Recycling	29/1/2025		Nashik
<b>Ms. T. N. Jadhav</b>	Sustainable Engineering for Future Infrastructure	11/02/2025 15/02/2025	to	Kolkata
<b>Ms. A. K. Ugale</b>	Sustainable Engineering for Future Infrastructure	11/02/2025 15/02/2025	to	Kolkata
<b>Mr. R. C. Patil</b>	Materials, Methods and Technologies in Civil Engineering	24/02/2025 1/03/2025	to	Jaipur
<b>Dr. P. D. Nemade</b>	Materials, Methods and Technologies in Civil Engineering	24/02/2025 1/03/2025	to	Jaipur
<b>Ms. M. B. Murkute</b>	Transforming Water Resources Management, Traffic Systems and E-	17/02/2025 28/02/2025	to	Patna





	Mobility with Quantum Computing and AI		
<b>Mr. M. B. Patil</b>	Design thinking, innovation & entrepreneurship	4/03/2025 to 8/03/2025	Nashik
<b>Dr. S. M. Waysal</b>	Design thinking, innovation & entrepreneurship	4/03/2025 to 8/03/2025	Nashik
<b>Dr. P. D. Nemade</b>	Smart and sustainable transportation system – A need of the developing countries	10/03/2025 to 14/03/2025	Odisha
<b>Dr. P. D. Nemade</b>	Role of Artificial Intelligence and automation in Civil Engineering	24/03/2025 to 28/03/2025	Pune
<b>Dr. A. P. Shelorkar</b>	Role of Artificial Intelligence and automation in Civil Engineering	24/03/2025 to 28/03/2025	Pune

## 2. List of IPR (Patent and Copy Right)

Sr. No.	Name of Patent/Copy Right	Name of Faculty	Application No/Patent no	Date
1.	Intelligent Safety vest system for urban construction sites with proximity detection and AI-based hazard prevention	Dr. P. D. Nemade Dr. M. P. Kadam Dr. A. P. Shelorkar Dr. S. M. Waysal Mr. P. D. Aher Mr. R. C. Patil Ms. M. B. Murkute Ms. K. R. Sonawane	202521014943 A	07/03/2025
2.	Machine Learning based Dynamic Industrial Structural Failure Prediction System	Dr. P. D. Nemade Ms. K. R. Sonawane Ms. M. B. Murkute Dr. A. P. Shelorkar	202541012102	12/02/2025





### 3. Research Paper Presented/Published

Name of faculty	Name of Paper	Journal/conference	Place
<b>Dr. P.D. Nemade</b>	Effect of Graphene Oxide in cement Mortar and its Strengthening Mechanism	International Journal for research in applied Science & Engineering Technology (IJRASET)	ISSN:2321-9653
<b>Dr. P.D. Nemade</b>	A Novel Approach to Detect Parking Space Occupancy for Efficient Urban Management	Civil Engineering Journal (Q1 Ranking, Scopus, ESCI)	Volume 11
<b>Dr. P.D. Nemade</b>	Optimizing Parking Dynamics in Urban Areas: A Mathematical Model for Pune, Maharashtra	SSRG International Journal of Civil Engineering	Volume 12
<b>Dr. P.D. Nemade</b>	Optimized Management of a Sustainable Ready-Mix Concrete Batching Plant for High Grade Concrete Production	International Journal for Research in Applied Science & Engineering Technology	Volume 13

### 4. Educational Visit/Industrial tours/Site Visit/Award/Activity



DAB meeting was conducted on 4th January 2025.







BOS Meeting on 7<sup>th</sup> January 2025.



Expert talk on “Software’s in Civil Engineering” by Mr. Hitesh Lahoti on 16/01/25







Seminar on “A road map to build successful fast-track career for TE Students” By Mr. Sameer on 16/01/2025



TE civil students visited at KBTCOE boy's hostel on 21/01/2025







TE and SE Civil students had an insightful visit to the construction exhibition, **“Constro 2025”** at Pune International Exhibition and Convention Center, Pune organized by PCERF, Pune on 2nd February 2025.



Dr. K. T. Patil, delivered expert talk on **“Mineralogy, petrology and Importance of geology for Civil Engineers”** to second year B.Tech. Students at K K Wagh Institute of Engineering Nashik on 07/02/2025







Dr. K. T. Patil Visited **“Prim.Ashram School, Kachurli”** on February 20, 2025.



Visit to the construction site at Indira Nagar Nashik on February 21, 2025.







Visit to Nilwande Dam and Hydropower Plant as part of their Dams and Hydraulic Structures & Hydropower Engineering course on February 28, 2025.





## April- May-June 2025

### 1. FDP/STTP/ Webinars attended by the faculty members

Name of faculty	Name of FDP	Date	Place
Mr. R. C. Patil	Role of Civil Engineer towards sustainable Development Goals (SDG)	26/05/2025 to 30/05/2025	Kopergaon
Mr. P. D. Aher	Environmental Geotechnology, Advances and Sustainable Practices	10/06/2025 to 21/06/2025	Nashik
Ms. K. R. Sonawane	Advancements in Concrete Technology : Microstructure , High- Temperature Effects and Strengthening	15/04/2025 to 17/04/ 2025	Junnar
Ms. K. R. Sonawane	AI tools for Research and Academic Writing	21/04/2025 to 3/05/2025	Haryana
Dr. S. M. Waysal	Environmental Geotechnology: Advances and Sustainable Practices	16/06/2025 to 21/06/2025	Nashik
Mr. P. D. Aher	Environmental Geotechnology: Advances and Sustainable Practices	16/06/2025 to 21/06/2025	Nashik
Ms. M. B. Murkute	Environmental Geotechnology: Advances and Sustainable Practices	16/06/2025 to 21/06/2025	Nashik
Mr. M. B. Patil	Environmental Geotechnology: Advances and Sustainable Practices	16/06/2025 to 21/06/2025	Nashik
Ms. K. R. Sonawane	Environmental Geotechnology: Advances and Sustainable Practices	16/06/2025 to 21/06/2025	Nashik
Ms. A. K. Ugale	Environmental Geotechnology: Advances and Sustainable Practices	16/06/2025 to 21/06/2025	Nashik
Ms. T. N. Jadhav	Environmental Geotechnology: Advances and Sustainable Practices	16/06/2025 to 21/06/2025	Nashik
Ms. S. A. Thombare	Environmental Geotechnology: Advances and Sustainable Practices	16/06/2025 to 21/06/2025	Nashik
Mr. D. N. Nathe	Engineering the Span: Bridge Superstructure (Part 1)	16/06/2025 to 20/06/2025	Surat





## Research Paper Presented/Published

Name of faculty	Name of Paper	Journal/conference	Place
Dr. P. D. Nemade	Application of Microwave Remote Sensing Technique for Capacity Assessment Study of Gangapur Reservoir	IJSREM	ISSN:2582-3930
Dr. P. D. Nemade	Optimized Management of a Sustainable Ready-Mix Concrete Batching Plant for High Grade Concrete Production	Conference research paper	
Dr. P. D. Nemade	Communication Management in Construction Projects	Advances in Civil and Structural Engineering	Volume 10

## 2. List of IPR (Patent and Copy Right)

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### 3. Educational Visit/Industrial tours/Site Visit/Award/Activity:



Visit to Wastewater Treatment Plant at Agar Takali having capacity 110 MLD per Day on 02/04/2025.



Visit to VRaj Infratech (RMC Plant) and Hindustan Pipe Manufacturing at Vilholi on 12/04/2025.







Expert Talk on “**Advanced Wastewater Treatment and career opportunities**” by Dr Swati Patil on 15/04/2025.



Mr. Shrinivas, ACE Academy, Hyderabad visited the Civil Engineering Department and conducted session for GATE examination on 17/04/2025.







Expert lecture on “**Turbine Design**” by Dr. Awate sir on 21/04/2025



Visit to **Gangapur Dam** on 22/04/2025







Dr. K. T. Patil conducted a **Water conservation survey** at the Dahegaon Patoda on 24/04/2025

## *Editorial Team*

*Chief Editor*  
*Editor*  
*Co-editor*

*Dr. P. D. Nemade*  
*Dr. A. P. Shelorkar*  
*Miss .A. K. Ugale*

