



AISSMS

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi and affiliated to Savitribai Phule Pune University
College ID No. PU/PN/Engg/093(1992)
Accredited by NAAC with Grade 'A+'



The newsletter of Department of Civil Engineering

Concrete People

2024-25 (Term –II)

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Our Inspiration

**Shri Shahu
Chhatrapati Maharaj**

President, AISSMS



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Vision

Service to Society through quality education.

Mission

Generation of national wealth through academics and research.
Imparting quality technical education at cost affordable to all strata of the society.
Enhancing quality of life through sustainable development.
Achieving the distinction of highest preferred engineering college by stake holders.
Carrying out high quality intellectual work.

From Principal's Desk:



I'm glad to signify that with commencement of this year 2024-25 AISSMS College of Engineering has completed 32 grand years of its establishment. AISSMS COE has an outcome of academic excellence achieved, is consistently producing University gold medalists and top rankers in different branches of engineering. Faculty is actively involved in research and development. College has a number of very high-end analytical, computational and experimental facilities at the disposal of students. We are going to concentrate more upon the Engineering Research activities and use those for students and society welfare. I am confident that the College is in a position to deliver the best theoretical and practical training to the students and offer the best talent to the employers. I wish all the best to the aspiring students, employers and all other stake-holders in achieving their goals.

“Civil engineering is a profession that integrates knowledge from many disciplines to provide solutions to challenges faced by society”

From Editors Desk...

It gives us immense pleasure to hand over to you "Concrete People" the newsletter of Civil engineering department. The course leading to a bachelor's degree in Civil Engineering was started in the year 2002. Additional intake in 2012. The department also runs a PG program in Structural Engineering with intake of 18. The Department presently has highly qualified and experienced faculty on its roll. The activities in the Department are conducted, besides teaching, in the areas of research, training, alumni and Training and Placement. The present era and the challenging future, demands strong basic technical knowledge and continuous growth of engineering students on all facets. Therefore the department is bestowed with highly qualified and experienced faculty members with specialization in various disciplines of engineering and sciences.

Hope you will find this newsletter informative. Your suggestions for improvement in the newsletter are welcome.

From HOD's Desk...



The department offers undergraduate civil engineering programme of 120 intake since academic year 2002-2003 and post graduate structural engineering programme of 18 intake from the academic year 2011-12. SPPU Pune recently granted approval for the Ph.D. Research Center also.

The Vision of Department is to Nurture the talent in civil engineers to work as global leaders for development of society. In line with our vision, the Department has modern software and well-equipped laboratories for geotechnical engineering, fluid mechanics, material testing, environmental engineering and transportation engineering. Our Industry Institute Interaction Cell's mission is to foster closer collaboration between academic and industrial fields, We understand the need to create avenues for close academia and industry interaction in a 360 degree approach for all our students. Our students are thriving in the construction industry, as a result of the sincere efforts of the faculties and the cutting edge facilities offered by the Department.



"A good civil engineer doesn't merely design things; he makes things work."



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The newsletter of Department of Civil Engineering

Concrete People

2024-25(Term II)

Vision

Nurture the talent in civil engineers to work as global leaders for the development of society.

Mission

- Provide quality education to develop competent civil engineers
- Create awareness among students for sustainable development
- Cultivate the leadership qualities for becoming successful entrepreneurs

Program Educational Objectives (PEOs):

- To produce civil engineering's who will be fully aware of the impact of their work on society, both nationally and globally.
- To achieve a high level of technical expertise to succeed in civil engineering practice and research.
- To develop civil engineers who acquire professionalism, leadership and commitment to professional development through lifelong learning.

Program Specific Outcomes (PSO's)

Graduates will able to:

- PSO1: Exhibit technical knowledge in planning, analysis, design and management for infrastructural development.
- PSO2: Apply the innovative technologies to address Civil Engineering problems of the society.
- PSO3: Enhance professional abilities to meet industrial need.

Short Term Goals

- To augment infrastructure and processes for enhancement in teaching learning.
- To extend assistance to students for competitive examinations, higher studies and entrepreneurship.
- To establish Research centre.

Long Term Goals

- To develop testing and consultancy facilities.
- To have cent percent Doctorate faculties.
- To strengthen collaboration with the reputed institutes and industries.

Staff Achievements

- ❖ Dr. S. S. Bhuinyan et. al. was granted a patent entitled “AI powered crack propagation monitoring device for concrete structure” (444655-001, Jan 2025)
- ❖ Dr. S. S. Bhuinyan has conducted at the National Level on “Steps involved in the preparation of DPR, Initial study” and “Draft DPR with Quantity and Costing, Final DPR, and Approval/Sanction Procedure for MoD and MORTH Works,” organized by the Border Roads Organisation (Ministry of Defence) on 19-01-2025.
- ❖ Dr. S. S. Bhuinyan Reviewed Research Paper for ALL INDIA SEMINAR: "Emerging Trends in Engineering and Technology: Shaping the Future of Innovation".
- Dr. K. N. Kulkarni has conducted session at the National level on “Inception report and quality assurance plan, draft and final feasibility on organized by the Border Roads Organisation (Ministry of Defence) on 21-01-2025.
- ❖ Dr. K. N. Kulkarni, Dr. S.P. Khedekar, and Dr. P R Satarkar awarded PhD in Civil Engineering by Savatribai Phule Pune University.
- ❖ Dr. S. S. Bhuinyan has been selected as a Member of the Editorial Board of the International Journal of Hydraulics and Wastewater Treatment Technologies.
- ❖ Dr. S. S. Bhuinyan has been selected as a Member of the Editorial Board of the Journal of Structural Technology.
- ❖ Dr. K. N. Kulkarni conducted session on “Inception report and quality assurance plan, draft and final feasibility” organized by the Border Roads Organisation (Ministry of Defence) on 21-01-2025.
- ❖ Dr. S. S. Bhuinyan conducted session on “Steps involved in the preparation of DPR, Initial study” and “Draft DPR with Quantity and Costing, Final DPR, and Approval/Sanction Procedure for MoD and MORTH Works,” organized by the Border Roads Organisation (Ministry of Defence) on 19-01-2025.

- ❖ Dr. V N Patil presented paper in “International Conference on Gender Equality and Women Empowerment 2025” on 8.3.2025 organized by PVG Pune on “Empowering Voices: Women in Decision making in India- from Historical Legacy to Future Leadership”
- ❖ Dnyaneshwar Vasant Wadkar, Prakash Nangare, Ganesh C. Chikute have published paper on “Establishment of Relationship Between Coagulant and Chlorine Dose Using Artificial Neural Network” Iranian Journal of Science and Technology, Transactions of Civil Engineering (2024) 48:4687–4695
- ❖ Vidya Nitin Patil published paper on “Design Parameters of Material Composites in Functionally Graded Concrete Layers” , International Journal of Engineering Research in Mechanical and Civil Engineering (IJERMCE), Dec-24, ISSN : 2456-1290.
- ❖ Vidya N. Patil, Swagat M. Karve published paper entitled “Automated Detection of Lower-Grade Gliomas Using Deep Learning with UNet and EfficientNet-B7 Detecting lower-grade gliomas (LGGs) remains a significant challenge in neuro-oncology due to their complex nature and variable clinical behaviors. Accurate identi”, Journal of Information Systems Engineering and Management, 28 Feb 2025, pp 14
- ❖ Satarkar, P.R., Dixit, P.R. & Londhe, S.N. Damage published paper on ‘Classification and segmentation in extended shear tab connection using convolutional neural networks and transfer learning’ in Asian J Civ Eng 26, 221–236 (2025).

Papers Published /Presented in Journal /conferences by Faculty

- ❖ Sonal Amit Chavan & Nilesh U. Mate has published paper entitled “Performance-based analysis: for vulnerability assessment of vertical irregularities in reinforced concrete structure with soil-structure interaction”, Innovative Infrastructure Solutions, Volume 10, article number 101, (2025)
- ❖ Shilpi S Bhuinyan presented paper titled “Experimental of pre-processed natural fiber reinforced concrete” on Two days international Conference on “Next – Generation infrastructure: Green technologies, smart cities and sustainable energy solutions” IC NGI-GSS-2025 on 9th and 10th May 2025, Organized by Dept of Civil Engineering, KDK College of Engineering, Nagpur.
- ❖ Uttam R Awari and Shilpi S Bhuinyan has presented paper titled “Effect of phase change material and silica fume on compressive strength of concrete” on Two days international Conference on “Next – Generation infrastructure: Green technologies, smart cities and sustainable energy solutions” IC NGI-GSS-2025 on 9th and 10th May 2025, Organized by Dept of Civil Engineering, KDK College of Engineering, Nagpur

Webinars/Expert Talks/FDP organized by Faculty

- ❖ Dr. P B Nangare and Dr. S. K. Nalawade has organised Poster Competition cum Exhibition on 'Failure case study of any Hydraulic Structure' for DHS Subject at BE Civil.
- ❖ Mr. C R Yeole Expert Lecture organized on Advanced Surveying Equipment DGPS on 3/2/25.

- ❖ Dr. K N Kulkarni and Ms S P Khedekar Co-ordinated Rotary Club and AISSMS COE Computer department program on "Software Development" on 18.1.25 at COEP auditorium.
- ❖ Dr. P B Nangare and Dr. S. K. Nalawade has Organised Poster Competition cum Exhibition on 'Failure case study of any Hydraulic Structure' for DHS Subject at BE Civil.
- ❖ Mr. C R Yeole Expert Lecture organized on Advanced Surveying Equipment DGPS on 3/2/25.
- ❖ Dr K N Kulkarni and Dr S P Khedekar has arranged expert talk on Modern tools in project management, on 22/04/2025, Expert- Er. Swaraj Chalke
- ❖ Dr S R Parekar and Dr. S. S. Bhuinyan has arranged session on Guidance for preparation of 'Gate 26', on 24/04/2025, Expert - Nitin Chakor
- ❖ Mrs M S Chiwande and Mr U J Jadhav have arranged session on Construction Practices on site 16/04/2024, Expert - Pratik Shirole
- ❖ Dr. R. D. Nalawade and Ms. V. V. Rokade have arranged a session on AI in Geotech, 17/04/2025, Expert Dr. Sachin Jain
- ❖ Ms. A. M Shete and Mr. C. R. Yeole has organised Advanced surveying tool- Differential Global Positioning System (DGPS), on 03/02/2025, Expert - Er. Gaurav Walunj.
- ❖ Dr. S. S. Bhuinyan has organised Expert Lecture Report on "Bridging Theory and Practice: Industry Demands in Reinforced Concrete Design" on 17th April 2025.

- ❖ Dr. M V Waghmare attended One week FDP on Innovative Teaching Learning Practices for Engineering Education
- ❖ Dr. Atulkumar Manchalwar, Mr. C R Yeole, A M Shete and V V Rokade attended FDP on “Retrofitting and Rehabilitation of Building Structures”
- ❖ Mr. V S Bhakare attended FDP- Modernization in Civil Engineering.
- ❖ Dr. V N Patil Attended Webinar "Dynamic Hackathon Webinar Series” on 12/02/2025.
- ❖ Dr. V N Patil Attended "Workshop on Intellectual Property and Technology Transfer " On 11th March 2025 Organised by Ministry of Education Innovation Cell and IIC Bharatee Vidyapeeth College Of Engineering, Lavale, Pune.
- ❖ Dr. S S Bhuinyan Attended Forbes Marshall Online Faculty Development Programme - Education for Industry Readiness on 12/03/2025.
- ❖ Dr K N Kulkarni and Dr. M V Waghmare Attended NEP Orientation & Sensitization Programme from March 6-14, 2025 online mode.
- ❖ Dr. S S Bhuinyan Dr K N Kulkarni and Ms S P Khedekar Attended Two Days National Level Workshop on "Introduction to Optimization in Engineering through AI Tools and Techniques" Dates March 17th - 18th – 2025.
- ❖ Dr. P B Nangare, Dr K N Kulkarni, Dr S S Bhuinyan DR MV Waghmare, Dr S P Khedekar Attended M.E. Dissertation. Workshop organized by SPPU on 29. April 2025.

STTPs/ Workshops/ FDPs attended by Faculty

- ❖ Dr S. D. Nagrale, Dr K. N. Kulkarni , Dr S.S. Bhuinyan and Ms. S. P. Khedekar Attended FDP on Role of Artificial intelligence and Automation in Civil Engineering from 24-28 March, 2025 organized by DYPIT, Pimpri.
- ❖ Mrs. M S Chiwande attended one Week National Level Faculty Development Program (FDP) on "Revolutionizing Engineering Education using Artificial Intelligence: ML, DL and Generative AI organised by PCCOE, Pune.

Seminars/ Webinars attended by Faculty

- ❖ Dr. V N Patil Attended start of program - Ministry of Education Innovation Cell and AICTE- UDYMOSTAV 2025.
- ❖ Dr. S S Bhuinyan and Dr. S P Khedekar attended Author meet program Guest Author Speaker: Dr Meeran Chadha Borwankar (Former IPS Officer and Author) on 15 January 2025
- ❖ Dr. S.S. Bhuinyan attended One week workshop on seismic safety assessment of dams, organized by the IEIPLC and Indian society of earthquake technology Pune local centre on 10 Jan 2025.
- ❖ Dr. K N Kulkarni Visited and attended meeting of panel members for paper setting for M. Tech CM FY subject “PPMC” at D Y Patil College Akurdi on 09.01.2025
- ❖ Dr. M V Waghmare Attended IFEES GEDC IUCEE Global Webinar “Crazy Idea: What If We Use Engineering to Develop and Deliver Engineering Education?” on 19/03/2025.
- ❖ Dr. P B Nangare Attended TEDx Program on 09.04.2025.
- ❖ Dr. V N Patil Attended Conference on “Innovation Engineering and Technology” on 9.4.25 as a session co Ordinator organized by AISSMS’ COE Pune

- ❖ Vishvas More research project under the guidance of Dr. S. S. Bhuinyan entitled “Influence of Pre-Processing treatment for enhanced compatibility and performance of Natural Fibers in concrete” in Engineering and Technology category at the 17th Maharashtra State Inter- University research convention Avishkar 2024-25 held at Dr. Babasaheb Ambedkar Technological University, Lonere during 12- 15 Jan 2025.
- ❖ Chinmay Kumbhar, Atharva Virkar, Dheeraj Loharm, Pratik Ippar, Shravani Tambe, and Poorva Shinde (Team HimaShield) have secured a spot in the Smart India Hackathon (SIH 2024) Grand Finale, under the guidance of Dr.(Mrs.) V N Patil at Delhi on 11–12 December 2024.
- ❖ Pranjali Thawri, Sajan Bodele, Vedanti Thorve, Adwait Rao, Jayaanmol Shah, Harshwardhan Thube (Team Astra Codifiers) has made it to the Smart India Hackathon India (SIH 2024) Grand Finale, under the guidance of Dr.(Mrs.) V N Patil at the Bengaluru on 11-12 December 2024.
- ❖ Manav Pawar, Atharva Nigade, Chahul Pareliwar and Ankita Shinde got selected for KREATE competition under sustainability at state level, organised by Kalika steel pvt. Ltd. at Jalna, under the Guidance of Dr. S. S. Bhuinyan.
- ❖ Apurva Murkute from TE Civil secured Runner-up position in Table Tennis at Flame Kurukshetra 2025
- ❖ Shivam Deokate has participated Shooting at SPPU level and National level

- ❖ Om Uttekar secured second position in karate at Okinawa Martial Arts Academy
- ❖ Vedant Hakke secured first position for Best physique in SPPU
- ❖ Apurva Murkute has secured first position Table Tennis at Zest 2025 organised by COEP
- ❖ Maitreyee Wadatkar got selected for inter district youth exchange programme from 10th Feb to 14th Feb 2025 under Nehru yuva kendra - Mera yuva Bharat , at Wardha.
- ❖ Nitin Chakor and Suyash Desale project under the guidance of Dr. S. S. Bhuinyan entitled “Long welded rail thermal expansion” was approved by Central railway.
- ❖ Sneha Divekar received appreciation for best Project under the guidance of Dr. S.S. Bhuinyan from PCERF - B. G. Shirke Vidyarthi Awards 2025 on 30/01/2025.
- ❖ Sakshi karande and Yogesh Waghmare have received best performance during internship under builder association of India.
- ❖ Himanshu Soni, Aryan Tilekar and Prachi Tonde have granted patent on “Smart irrigation system for product AUTOIrrisAI”
- ❖ Mayuresh Jachak have participated in Zonal round of Avishkar 2024-25, Organized by SPPU, Pune.
- ❖ Apura Murkute have secured Second position in Handball at ZEST 2025, Organised by COEP.



One-Day Workshop on Analysis & Design of Elevated Water Tanks was organized on 11th April 2025.



Two days National Level Event “RAIL-GEOFEST 2025” was organized on 27 and 28th March 2025



Appreciation of all toppers along with their parents from S.E. to B.E. for the AY 2023-24. on 26th April 2025



Industry Conclave 2k25 organized on 31st Jan 2025

Glimpse of Departmental Activities



Parents Meet was organized on 26th April 2025.



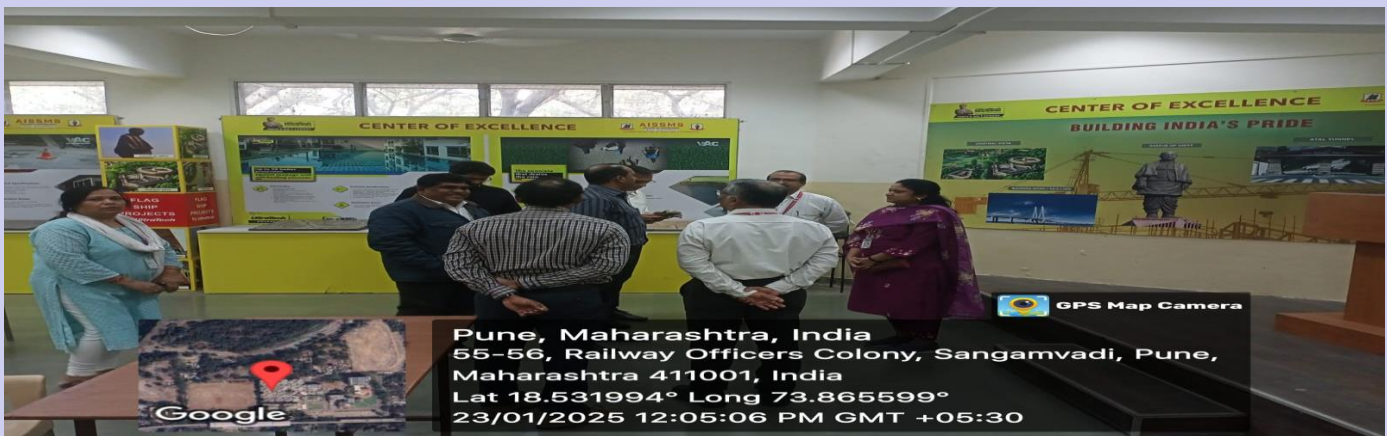
Alumni meet was organized on 26th April 2025.



Farewell to BE students was organized on 30th April 2025.



Best Performance award to our students by Builder Association of India



ATE Huber Industry visit at Centre of Excellence Lab on 23/01/25

Glimpse of Departmental Activities



Smart India Hackathon India (SIH 2024) Grand Finale



Measurement survey of beneficiaries houses conducted by department at Kalyan Village for Pradhan Mantri Aawas Yojana under Unnat Bharat Abhiyan



Educational Visit of BE project Students at J Kumar Infraproject RMC plant, Wagholi



Students undergone in-plant training and



Site visit for TE students for SWM subject at Transfer section, Ghole road, Pune on 07/04/2024



Site Visit for at Construction site for QSCT subject at Bharat Ratna Atal Bihari Medical College, Pune, on 15/04/2025



Site visit for ME (Structural Engg) at Vertica, Balewadi on 29/04/2025.



Site visit for ME (Structural Engg) at ABHUA innovative Pvt. Ltd. Kagal Dist: Kolhapur on 21/02/2025.

Glimpse of Departmental Activities



Site visit for BE students at Dimbhe dam near Ambegaon, Pune on 27/02/2025.



Site Visit under DRCS for TE Civil students at Rahul Construction, Baner, Pune on 04.04.2025



Educational Visit at International Expo Constro-2025 in association with PCERF on 31st Jan 2025.



Participation of students in DIPEX 2025 at COEP Technological University Pune on 5/04/2025.



Expert Lecture on 'Bridging Theory and Practice: Industry Demands in Reinforced Concrete Design' by Er. Supriya Dhekale, Deputy Manager, Shapoorji Pallonji and Co. Pvt. Ltd on 17th April 2025.



Poster Competition cum Exhibition on 'Failure case study of any Hydraulic Structure' for DHS Subject at BE Civil organized on 11/04/25



Workshop on "UltraTech Building Products" for inhouse Ultratech Engineers organised by UltraTech Cement Limited and Department of Civil Engineering, AISSMS COE, Pune, on May 2025