

Issue 2024-25 Term II

Department of Civil Engineering

ENAMOR

E-Newsletter

"CONSTRUCTING EXCELLENCE: THE
CIVIL ENGINEERS OF TOMORROW"



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Student Editor



VISION AND MISSION OF THE CIVIL DEPARTMENT

Vision of the department

- To create Engineers who will transform Civil Engineering Industry for sustainable development of society

Mission of the department

- To create Civil Engineers enriched with quality technical education.
 - To inculcate innovation, creativity and research approach among the graduates
 - To create entrepreneurs practicing professional ethics.
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E-newsletter



An e-magazine for a university serves as a dynamic platform to showcase the vibrant academic community, celebrate student and faculty achievements, and share the latest developments across various departments. It provides a space to feature in-depth articles on cutting-edge research, highlight significant campus events, and foster a sense of belonging among students. With a focus on creativity, collaboration, and innovation, the e-magazine becomes an essential tool for keeping the university community informed and engaged. Whether it's through insightful interviews, thought-provoking features, or updates on university life, the e-magazine captures the essence of university culture while promoting academic excellence and student involvement.



CIVIL ENGINEERING STUDENTS ASSOCIATION (CESA)

At Bharati Vidyapeeth College Of Engineering, Pune, the Civil Engineering Students Association (CESA) is more than just a student group; it's a vibrant community of aspiring engineers who are shaping the future of infrastructure and design. Founded with the mission of creating a platform for collaboration, innovation, and professional development, CESA is dedicated to enhancing the student experience for those pursuing a degree in civil engineering. CESA serves as a bridge between students, faculty, and the wider industry. Through a variety of events, workshops, and activities, CESA provides students with the opportunity to expand their knowledge beyond the classroom. The association regularly organizes guest lectures, where industry professionals share their experiences and insights, offering students valuable perspectives on the practical applications of civil engineering concepts.

In addition, CESA hosts hands-on workshops where students can engage with the latest engineering tools and technologies. These workshops cover a range of topics from sustainable construction methods to advanced software used in structural analysis. By fostering an environment of continuous learning, CESA ensures that students are well-prepared for the challenges of the professional world.

T.I.M.E. INSTITUTE SEMINAR

Date 03/02/2025



TIME Institute, known for its expertise in preparing students for exams like CAT, GRE, GMAT, and other competitive tests, brought their team of experienced faculty and career counselors to the campus to guide students through the process of effective preparation and career strategy. The seminar focused on helping students explore different career options and the necessary steps to reach their professional goals. TIME Institute's expert speakers delved into the importance of understanding one's strengths and aspirations, emphasizing how students can align their career paths with their interests and capabilities. The event also offered insights into the evolving job market, helping students understand the skills and qualifications required in today's competitive landscape. The seminar, which attracted a large number of students from various disciplines, was a valuable opportunity for those looking to understand the intricacies of career planning and exam preparation.

In addition to informative presentations, the seminar featured interactive sessions where students could ask questions directly to the experts. These sessions were highly engaging, with students keen to learn about different career pathways and how to choose the best exam preparation strategies. The speakers encouraged a free-flowing exchange of ideas, offering personalized advice and sharing success stories of former students who have excelled with TIME's guidance.

The interactive nature of the seminar made it especially beneficial for students who were unsure about their career options or confused about which competitive exam to pursue. TIME Institute's experts took the time to listen to students' concerns and provided tailored solutions that helped clear doubts and provided clarity.



**STOP DREAMING AND START
DOING.**

CAD DESIGN INSTITUTE SEMINAR

AN INSIGHTFUL SESSION ON CUTTING-EDGE DESIGNING SOFTWARE, EMPOWERING STUDENTS WITH ADVANCED TECHNICAL SKILLS.

Date 04/02/2025

In today's world, design and technology go hand in hand. Whether in architecture, engineering, product design, or even fashion, the ability to utilize advanced design software is a game-changer. The CAD (Computer-Aided Design) Design Institute Seminar stands as a powerful educational platform, offering students a unique opportunity to delve into the world of cutting-edge designing software. This seminar not only introduces students to the latest in CAD technology but also equips them with the practical technical skills necessary to excel in their respective fields.



The seminar's primary strength lies in its hands-on approach. Students have the chance to work directly with the latest software, guided by industry experts who bring years of experience to the table. These professionals don't just teach technical skills—they offer real-world insights into how CAD software is used in professional practice, helping students understand its application in actual design workflows.

Moreover, through live demonstrations and interactive sessions, students are given the chance to ask questions, solve design challenges, and experiment with tools in a controlled, supportive environment. This practical exposure not only enhances their confidence but also prepares them for real-world projects that demand both creativity and precision.

The CAD Design Institute Seminar offers students an invaluable opportunity to gain advanced technical skills, connect with industry leaders, and take their design expertise to the next level. For students eager to make an impact in the world of design, this seminar is a vital step toward a future of innovation and creativity.

CREDAI SEMINAR

Date 04/02/2025

BRIDGING THE GAP BETWEEN THEORY AND INDUSTRY PRACTICES

In the rapidly evolving world of real estate and construction, the need for students to bridge the gap between their academic knowledge and industry practices has never been more critical. To address this gap, the CREDAI (Confederation of Real Estate Developers' Associations of India) Seminar offered a unique platform for students, professionals, and industry experts to come together and exchange valuable insights. The event provided an opportunity for students to gain practical knowledge from leading professionals, preparing them for a successful career in the real estate sector.

The CREDAI Seminar brought together some of the most distinguished figures in the real estate industry, offering students an exceptional opportunity to gain real-world insights directly from the experts. The seminar focused on providing practical knowledge, addressing the challenges, and exploring the latest trends that are shaping the future of the real estate and construction industries.

The CREDAI Seminar also provides an invaluable networking platform. Students have the chance to meet and interact with professionals who are shaping the future of real estate. This connection can prove vital when it comes to securing internships, job opportunities, or mentorships. Many successful careers in real estate have been launched through personal connections made at such events.

Prepared by - Aihshan Raza (sem VI) and Om Phad (sem VI)



SPORTS

PRITI NIKAM SHINES AT WEST ZONE INTER UNIVERSITY VOLLEYBALL CHAMPIONSHIP 2024-25

The spirit of sportsmanship and excellence was on full display at the West Zone Inter University Volleyball (W) Championship 2024-25, held at Shri Khushal Das University, Hanumangarh, Rajasthan. Among the many talented athletes who showcased their skills, one name stood out—Priti Nikam, a dedicated and determined player from the Civil Engineering Department of our university.

Representing our university in this prestigious tournament, Priti Nikam exhibited exceptional skill, agility, and perseverance throughout the championship. Her powerful serves, precise spikes, and strategic gameplay played a crucial role in the team's performance, earning admiration from teammates, coaches, and spectators alike.



The courts of ITM University, Gwalior, came alive with passion, energy, and competition as it hosted the West Zone Inter University Basketball (Men) Tournament 2024-25 from 15th to 20th November 2024. Among the talented athletes who represented our university with pride was Nilesh Mane, a dedicated and skilled basketball player from the Civil Engineering Department.

Participation in such a high-level tournament is a matter of pride, not only for the player but for the entire university. Nilesh's presence at the West Zone Inter University Basketball Tournament highlighted the potential and strength of our university's sports program. His dedication serves as an example of what can be achieved with perseverance, passion, and the right guidance.

With his remarkable performance at the West Zone Inter University Tournament, Nilesh Mane has set a strong foundation for his future in basketball. His participation in the coaching camp and tournament has not only enhanced his skills but also provided invaluable experience that will aid him in future competitions. As he continues to train and compete, the university stands behind him, cheering him on for even greater achievements ahead.

*NILESH MANE
REPRESENTS
UNIVERSITY AT WEST
ZONE INTER
UNIVERSITY
BASKETBALL
TOURNAMENT 2024-25*



INTER-DEPARTMENT SPORTS

Date 18/02/2025

CIVIL DEPARTMENT GIRLS CLINCH VICTORY IN INTER-DEPARTMENT VOLLEYBALL CHAMPIONSHIP



The spirit of teamwork, determination, and excellence reached new heights as the Civil Department girls' volleyball team emerged victorious in the Women's Inter-Department Volleyball Championship. With an electrifying performance, they showcased their skill, strategy, and resilience, ultimately bringing home the coveted championship trophy.

The tournament witnessed fierce competition from multiple departments, each bringing their best game to the court. However, the Civil Department girls displayed exceptional teamwork, agility, and tactical play, securing dominant wins in the preliminary rounds. In the grand finale, they faced a formidable opponent, but with powerful serves, precise spikes, and impenetrable defense, they outperformed their rivals and clinched the championship in style.

CIVIL DEPARTMENT BOYS SECURE RUNNER-UP POSITION IN INTER-DEPARTMENT BASKETBALL CHAMPIONSHIP

The basketball courts echoed with the sounds of fierce competition and unrelenting determination as the Civil Department boys' basketball team showcased their talent and resilience in the Men's Inter-Department Basketball Championship. With an inspiring performance throughout the tournament, the team emerged as the runner-up, proving their strength and skill on the court.

Securing the runner-up position is no small feat, and this achievement stands as a testament to the team's hard work and commitment. Their stellar performance has brought immense pride to the Civil Engineering Department, reinforcing its reputation not just in academics but also in sports. The faculty, fellow students, and sports coordinators rallied behind them, celebrating their commendable journey.





BHARATIYAM

2024-25

Date 24/02/2025



Every year, the vibrant campus of our university comes alive with an electrifying fusion of technology and culture, bringing together talent, creativity, and innovation under one grand umbrella—BHARATIYAM.

This annual techno-cultural fest has cemented its place as one of the most awaited events of the year, drawing participants from various colleges and universities, all eager to showcase their skills, compete, and celebrate the spirit of knowledge and artistry.

BHARATIYAM is more than just a fest; it is a tradition that celebrates the dynamic synergy between technology and cultural expression. Over the years, it has evolved into a prestigious platform that provides students with an opportunity to engage in intellectual discourses, technical competitions, and cultural performances that leave a lasting impact.

The fest stands out because of its unique ability to seamlessly blend technological brilliance with artistic grandeur. The event lineup is a perfect mix of technical competitions, such as hackathons, coding battles, robotics challenges, and paper presentations, alongside cultural spectacles, including music, dance, drama, fashion shows, and literary contests. This amalgamation ensures that there is something for everyone, making BHARATIYAM a truly inclusive and engaging experience.

This year, CESA took it to the next level with Structure Zone, an exclusive civil engineering challenge that will put your technical expertise, problem-solving skills, and creativity to the test. Alongside this, get ready for high-energy Arcade Games, thrilling technical and cultural competitions, and electrifying performances that will keep the spirit of the fest alive!

BHARATIYAM isn't just an event—it's an experience where you get to compete, learn, and celebrate with like-minded peers. Whether you're an aspiring engineer, a gaming enthusiast, or an artist at heart, there's something for everyone!

With each passing year, BHARATIYAM continues to scale new heights, promising bigger and better experiences for students and participants alike.



Date 25/03/2025

CAMPUS CLEANING

*A STEP TOWARDS A GREENER
TOMORROW*

A clean and well-maintained campus is not just a reflection of an institution's values but also a necessity for a healthier and more inspiring learning environment. Recognizing this, our university recently organized a Campus Cleaning Drive, a social initiative aimed at promoting environmental responsibility, cleanliness, and a sense of community among students and faculty members.

The Campus Cleaning Drive was conceptualized as a step towards instilling a culture of hygiene, sustainability, and environmental awareness among students. The initiative aimed to create a cleaner, greener campus while fostering a sense of collective responsibility among its stakeholders.

The immediate result was a visibly cleaner campus, but the impact went beyond just aesthetics. The event served as a reminder of the importance of maintaining cleanliness and minimizing waste. Awareness campaigns were also conducted, emphasizing waste segregation, recycling, and responsible disposal methods. Banners and posters highlighting environmental consciousness were placed around the campus to reinforce the message. For students, the drive was more than just an activity; it was a lesson in civic responsibility and environmental stewardship. It helped them realize the significance of keeping their surroundings clean, not just within the campus but in society as a whole.

Site Visit To Metro

Name of Subject: Construction Quality Control & Safety

Name of Site Visit: Swargate Metro Underground Shaft & Station

Participant: B.Tech (Civil) Sem VIII

Name of Organization: M/s J. Kumar Infrastructure Ltd.

Faculty Co-Ordinator: Dr. P.P. Hirave

No. of Participants: 33



On 2nd April 2025, a site visit was organized for the B.Tech Civil Engineering Semester VIII students to the Swargate Metro Underground Shaft and Station site by Dr. P.P. Hirave and was accompanied by Prof. S.S. Thorat. The site is being developed as a multimodal transportation hub integrated with a commercial mall. The visit was hosted by M/s J. Kumar Infrastructure Ltd., the construction agency responsible for the project. The purpose of the visit was to provide students with firsthand exposure to construction quality control practices and on-site safety protocols.

The visit began with an insightful presentation by Mr. Divyaman Singh, the Safety Manager at the site. He gave a detailed overview of the safety measures being followed during the construction activities. His presentation covered essential aspects such as the use of personal protective equipment (PPE), emergency response strategies, and general safety norms followed on large-scale infrastructure projects. This session helped students understand the importance of maintaining high safety standards on site.



After the presentation, the students were taken around the construction site where they observed the actual implementation of safety protocols. It was evident that all workers were well-equipped with PPE kits including helmets, reflective vests, gloves, and safety shoes. The safety of construction equipment and machinery was also well managed. During the visit, concreting work for a large RCC slab was in progress, which provided an excellent opportunity for the students to witness the construction process live. They were able to observe the activities involved in slab construction such as reinforcement placement, formwork arrangement, and the concrete pouring and compaction process. Following this, the group proceeded to the Quality Control (QC) section of the site. Here, the students were introduced to the material testing procedures and documentation processes used to ensure construction quality. Mr. Habib, the QC Incharge, explained the complete quality control system adopted on-site.



He walked the students through various testing methods for construction materials, the importance of record-keeping, and how quality benchmarks are maintained throughout the project lifecycle. The students had the chance to see laboratory equipment and observe sample testing procedures, which added practical depth to their academic knowledge.

At the end of the visit, a vote of thanks was delivered by one of the students, Mr. Pratham Bajpai, who expressed gratitude to Mr. Pawan, Project Manager for facilitating such a well-organized and informative visit. The site visit was both interesting and successful, providing a valuable learning experience for all the students involved. It bridged the gap between theoretical studies and practical application in the field of civil engineering and left the students with a greater appreciation for construction quality and safety management.

MONARCH SURVEYING FIRM WORKSHOP

*A CUTTING-EDGE 2-DAY TRAINING ON MODERN SURVEYING
TECHNIQUES USING GIS AND DRONES*

DATE: 03/04/2025



In the world of land surveying, precision and technological advancement are paramount. As industries increasingly rely on cutting-edge tools for data collection and analysis, the Monarch Surveying Firm Workshop stands at the forefront of innovation. This comprehensive two-day training session focuses on equipping students with the skills to use modern surveying techniques, specifically Geographic Information Systems (GIS) and drone technology. By blending theory with hands-on practice, the workshop offers an invaluable learning experience that prepares students for the future of surveying. For students eager to shape the future of land surveying, the Monarch Surveying Firm Workshop offered the perfect platform to enhance their technical skills, gain hands-on experience, and build a network of industry contacts that will support their success in the years to come.

The workshop focused on empowering students with a comprehensive understanding of GIS and drone surveying—two of the most revolutionary tools in the surveying industry. Over the two-day event, participants were guided through a series of practical, expert-led sessions that showcased the full potential of these technologies.

Students learned how to operate drones to capture high-resolution aerial imagery, which can be used to map large areas efficiently. Additionally, they explored the intricacies of GIS software, gaining hands-on experience with spatial data collection, analysis, and map generation. This exposure to both aerial data and GIS integration is critical for modern surveyors, as it enhances precision and reduces time spent on manual data collection.

The Monarch Surveying Firm Workshop proved to be a pivotal learning experience for all participants. By providing both theoretical and practical knowledge of GIS and drone surveying techniques, the workshop empowered students to master the modern tools that are transforming the surveying landscape.

SITE VISIT AT WATER TREATMENT PLANT – PARVATI, PUNE.

The department of Civil Engineering, Bharati Vidyapeeth (Deemed to be university) College of Engineering Pune, conducted a Site visit under the subject of Water Supply Engineering at Water Treatment Plant - Parvati water works, Sinhagad Road, Pune, on 7th April 2025 for B. Tech (Civil) Sem VI Students.

INTRODUCTION:

There exists a water purification plant with a capacity of 535 million litres per day at Parvati, Sr. No. 121 and 122. From the said water purification plant, water is predominantly supplied to the centralized area of Pune city and vicinity of S.N.D.T. and Chaturshringi areas.

WATER TREATMENT PROCESS:

During the site visit the various steps of water treatment are observed in the plant which consists of mainly Collection of Raw water, Coagulation, Pre chlorination, Flash Mixing, Tube Settling, Filtration Backwashing, Reservoir storing, post chlorination & Distribution, Sludge tank.

❶ COLLECTION: - The raw water which is supplied to the water treatment plant from khadakwasla Dam through gravity & pumps & is stored there.

❷ COAGULATION: - The raw water is first treated with chemical coagulants like Alum.

❸ Pre chlorination: Water is added Liquid chlorine with calculated dose of amount as a disinfectant at its initial level.

❹ iii. FLASH MIXING: - Treated water is then subjected to violent agitation in a mixing chamber for a few minutes. This allows quick and rapid dissemination of alum throughout the bulk of the water

❺ FILTRATION: filter units have 16 sand beds which are rapid sand gravity filters. The filter bed consists of two beds – coarse sand and fine sand. The under drain at the bottom of the filter bed collects the filtered water.

❻ BACKWASHING -As filter proceeds, the suspended impurities and bacteria clog the filters. The filter soon becomes dirty and begins to lose their efficiency and are subjected to backwashing. This is done by reversing the flow of water through the sand bed. Washing is stopped when clear sand is visible, and the washing water is sufficiently clean.

❼ DISINFECTION: - -This is the last step before storage and distribution of this water. The process used is chlorination. Chlorine gas is used for effective disinfection called Post – Chlorination of water.

❽ RESERVOIR: -We have visited the reservoir where the purified water is stored underground tank. Reservoir is connected with 10 pumps through which water get pumped to regions of the city.



Date: 10/04/2025

EXPERT LECTURE- RICS



Name of Guest:

- Mr. Amith Thawarani

Chartered Surveyor credential of RICS

- Mr. Tushar Jindal

Date: 10/04/2025

Prof. of School of Real estate & Finance

Name of Organization: RICS.

Participant: B. Tech Civil

Faculty Co-Ordinator: Prof. Sujit M. Tarte

No. of Participants: 67 Students

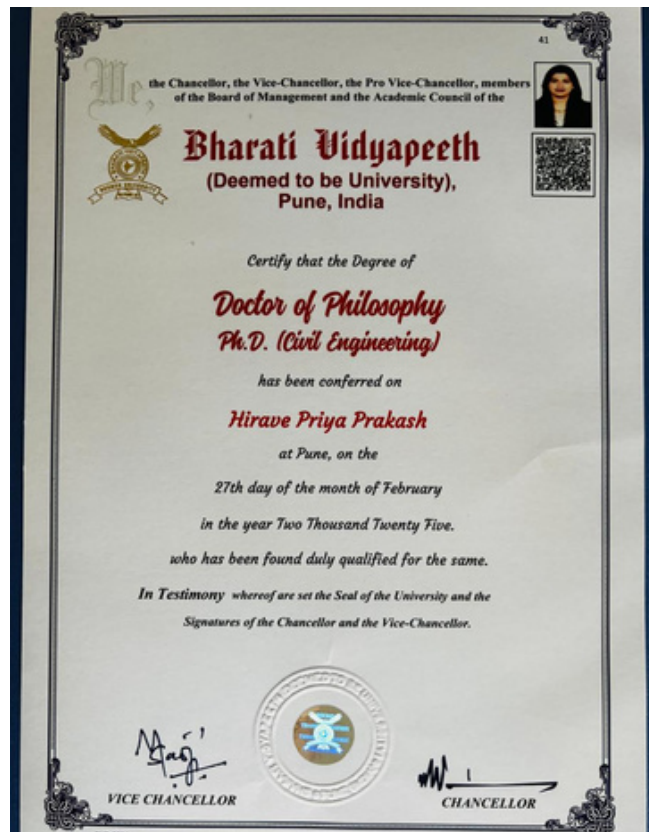


The Department of Civil Engineering has organized an expert lecture for B. Tech Civil students on April 10, 2025. The lecture is based on the subject of "Quantity Surveying". The session was delivered by Mr. Amith Thawarani, who is a Chartered Surveyor credential of RICS (MRICS).

More than 67 students attended this program.

RICS -Royal Institution of Chartered Surveyors (RICS) is a globally recognized professional body for those working in the built environment, construction, land, property, and real estate. RICS sets and enforces international standards for professionals working in these fields. RICS accredited various courses and degrees for the students and are recognized by Government of India & abroad. Membership of RICS to the students helps in many ways like Free study help, Networking, Career advancement, Professional credibility & Global recognition.

Congratulations!



Heartiest congratulations to Priya Prakash Hirave on being awarded the Doctor of Philosophy - Ph.D. in Civil Engineering by Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune. This remarkable achievement in the specialized field of 'Transportation Engineering' is a testament to her unwavering dedication, intellectual rigor, and passion for research. Her work on the topic "Travel Demand Best Model Split Analysis" showcases a deep commitment to solving real-world challenges in urban mobility and planning & contributing valuable insights to the field.

Wishing her continued success and many more milestones in her academic and professional journey ahead!

THANK YOU FOR BEING A PART OF THIS EDITION!





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e-magazine

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BHARATI VIDYAPEETH DEEMED UNIVERSITY

College of Engineering, Pune

