



**Khandesh Bahuuddeshiya Sanstha's
College of Engineering & Technology,
North Maharashtra Knowledge City, Jalgaon**

News Letter

Volume 01, Number 03

Aug - Nov 2024

Civil Engineering Department

Vision

The Department shall be the center of excellence with the highest level of achievement in technical education.

Mission

1. Overall development of students inculcating in them the ground reality.
2. Being the choice of students, parents and employers in India for technical Education.
3. Maintaining the best infrastructure, developing knowledge and skills.

Program Outcomes

	Program Outcomes
PO 1	Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
PO 2	Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
PO 3	Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
PO 4	Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO 5	Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
PO 6	The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
PO 7	Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO 8	Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
PO 9	Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
PO 10	Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions
PO 11	Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
PO 12	Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

PSO 1	Ability to apply theoretical knowledge for specific field applications: a civil engineering graduate must be able to identify the constraints of a real world problem and must be able to decide appropriate combination of technology to resolve the problem. S/he must be able to implement the solution.
PSO 2	Ability to work with advanced equipment: a civil engineering graduate must be able to deal with advanced equipments used for various civil engineering applications for faster and precise observations.
PSO 3	Awareness about alternative and blended construction materials: natural materials are getting scarce and their over exploitation is causing environmental damages. A civil engineering graduate must be aware about the applications of alternative and blended construction materials which are more sustainable.

Celebration

1) Teacher's day

The Teacher's Day was organized by the students of Civil Engineering department at KBS's College of Engineering & Technology, North Maharashtra Knowledge City, Jalgaon. Teacher's day on 05-09-2024

To commemorate the birth of the second President of India, **Dr. Sarvepalli Radhakrishnan**, who was a philosopher and a great teacher, 5th September every year, is celebrated as Teacher's Day.

The celebration took place at 12 PM after the classes. Teachers play a major role in making their students responsible citizens of tomorrow and good human beings. Like every year, this year also the Professors and Faculty were invited to celebrate Teachers Day.

The introduction speech was delivered by prof. R.S. Bhoge he expressed his deep appreciation for each and every one of the students. He marked that, "Being a teacher has been a privilege, and we are continually inspired by your potential and the remarkable individuals you're becoming. Teaching is not just a job for us; it is a vocation, and

witnessing your progress, growth, and triumph over obstacles that brings us immense fulfillment. Remember that learning is a lifelong journey, and we are here to support and guide you every step of the way.

Glimpses of Teacher's Day Celebration



2) Engineer's day

The Engineer's Day-2024 event is organized in departmental Hall. HoD Prof. D.G. Pardeshi & Assistant Prof. V.R. Pathak delivered the speech on this occasion.

In India, Engineer's Day is celebrated on September 15 every year to recognise the contribution of engineers in the development of the nation and remind all the engineers of the country, especially civil engineers, to make Sir Mokshagundam Visvesvaraya their role model in accomplishing their goals and contributing to the country's development. In 1968, the Government of India decided to observe September 15 as National Engineers Day. As per reports, India has the second largest number of engineers in the world. Often at times, India is also referred to as the country of engineers.

Sir Mokshagundam Visvesvarayya was an eminent Indian engineer and statesman. He is a recipient of the Indian republic's highest honour, the Bharat Ratna, in 1955. He was also knighted by the British for his myriad contributions to the public good. Every year, 15th September is celebrated as the Engineer's Day in India in his memory.

Events Conducted: The engineering student community as a whole devoted entire day.

Glimpses of Engineer's Day



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Online Webinar

The Department of civil Engineering has organized a webinar on “**Various Emerging Trends & Role of Civil Engineers in Developing The Nation**” on **15/09/2024** (Sunday) between 7:00 PM to 8:00 PM, through the Google meet platform.

The lecture in this webinar was given by **Mr.Aniket Agrawal**, Who has director of **Grow High Engineers**, Nashik. He gives knowledge of Skillful Practice and idea of startup plan for civil engineers.

Emerging Trends In Civil Engineering

1. Building Information Modeling (BIM)

Building Information Modeling (BIM) is one of the emerging trends in civil engineering. It has transformed how projects are conceptualized, planned, and executed. This technology enables engineers to create digital replicas of structures, incorporating every detail from materials to systems.

2. Sustainable Materials and Practices

Sustainability has become a cornerstone of modern civil engineering. The industry increasingly adopts eco-friendly materials such as recycled concrete, sustainable steel and innovative composites. The use of sustainable materials is marked as an emerging trend in civil engineering.

3. Smart Cities and IOT Integration

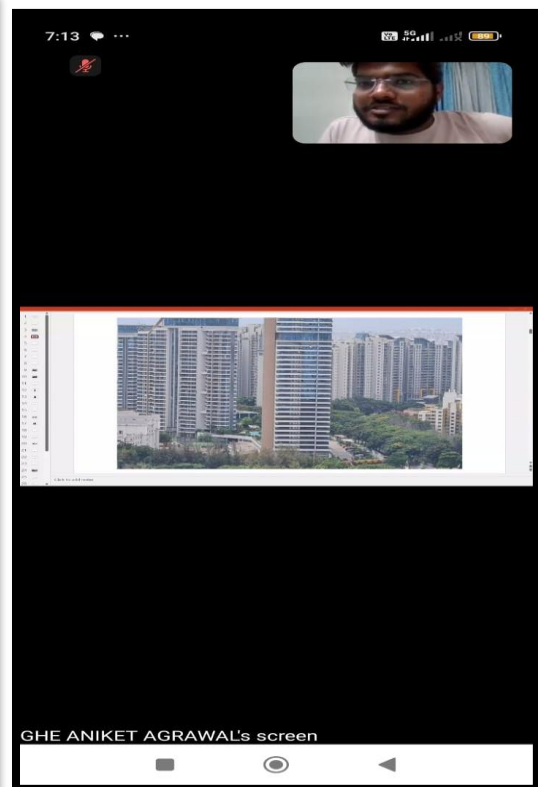
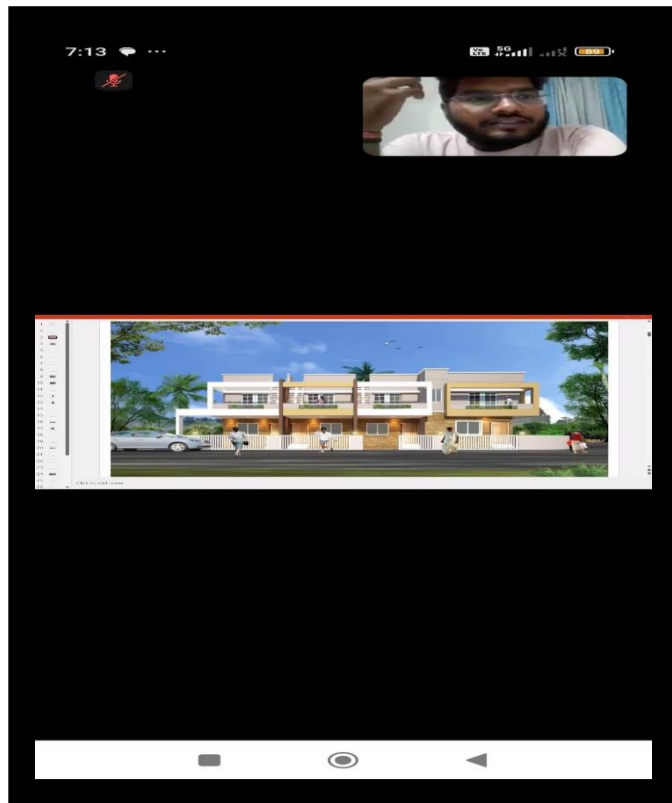
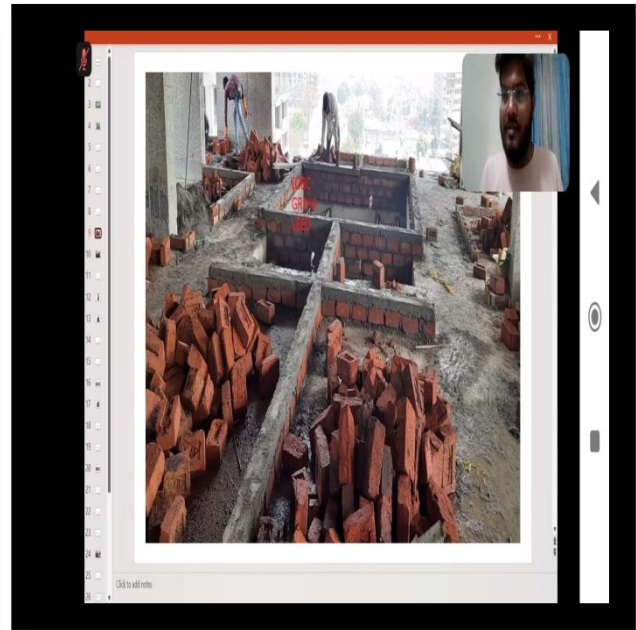
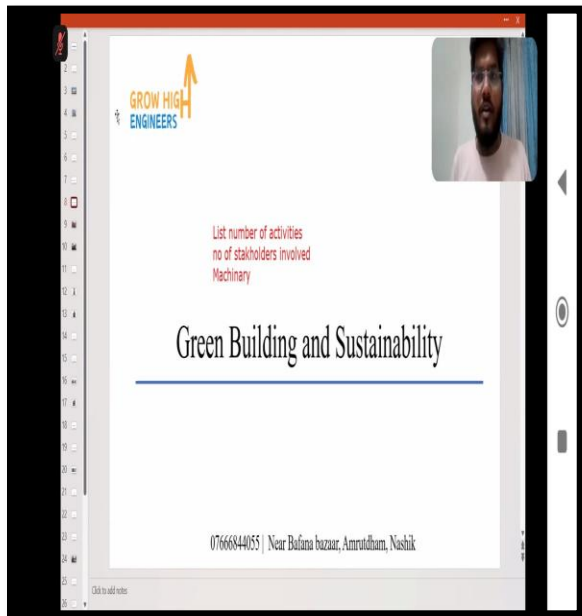
The concept of smart cities is gaining traction, driven by integrating Internet of Things (IOT) technology. Civil engineers are working on creating urban environments where various infrastructure components, such as transportation systems, utilities, and public services, are interconnected and data-driven.

4. Building Sustainably

Along with the use of sustainable materials and adopting better construction methods on-site, the recent trends in civil engineering are focusing on sustainable buildings.

The use of smart materials embedded in buildings powered by intelligent electric grids is creating a system of construction that is leading the way to creating more energy-efficient housing.

Glimpses of Webinar



Site Visit

Visit at Water Treatment Plant

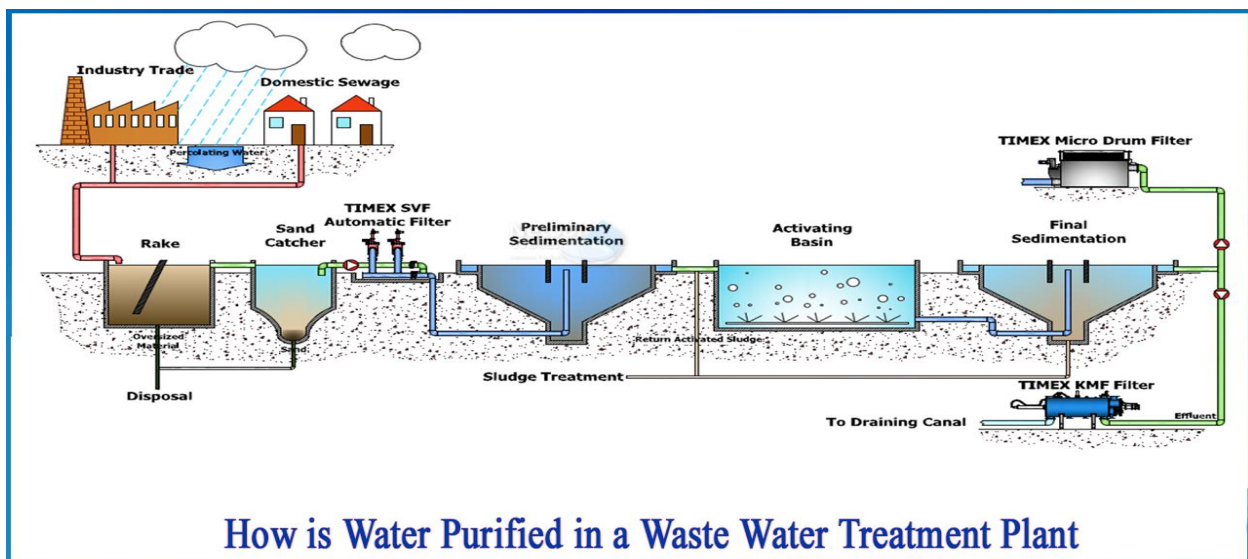
On 18th Nov, 2024 at 12.00 pm students reached at water treatment plant, Waghur , Jalgaon. The visit organized by Civil Department NMKC, COET, Jalgaon.

At starting Mr. Yadav sir is gave the basic knowledge about Treatment Plant, they explained to students about Treatment process.

He shares general idea of site visit also what kind of problem faces in actual working.

Our main purpose for this visit was to give the practical knowledge about how raw water is treated and how water is distributed in Jalgaon city. By this visit students can be familiar with environment and get knowledge of different units of water treatment plant. Also in 4th semester subject like Water and waste water Engineering requires knowledge about how components water treatment plant, so it is very much convenient to see all the practical and components in real time work environment.

Jalgaon Municipal Corporation has designed and constructed the 70 MLD water treatment plant in Jalgaon to provide treatment and safe drinking water to all over the Jalgaon city. This involves treat to raw water, primary treatment, secondary treatment, and disinfection to make it safe for drinking purpose. Raw water collected from waghur dam which is built on waghur river. In first unit water aeration is done with the help of alum. Water is passed in next unit which is clarriflocculator in this system water is clear by sedimentation process. After all process last water goes in disinfection unit with the help of chlorine gas.



Glimpses of Site Visit



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