Khandesh Bahuuddeshiya Sanstha's

College of Engineering & Technology,

North Maharashtra Knowledge City, Jalgaon

News Letter

Volume 01, Number 02

Feb - June 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 of Chhatrapati Shivaji Maharaj Jayanti

20th Feb 2024

Shivaji Maharaj Jayanti, which is the birth anniversary of Shivaji Maharaj, is celebrate on February 20 and is falling on Tuesday this year. Shivaji Maharaj Jayanti is a Maharashtrian festival commemorating Shivaji Maharaj's birth. On this day, the state observes a public holiday. The day is usually commemorated with zeal and pride.

Like every year, Shiva Maharaj Jayanti was celebrated in our colleges on a large scale at 20 February 2024. The principal of the college Dr. S.P. Ahhirao and Teaching and non-teaching staff, some students were present on the occasion. Principal sir and staff gave speeches on Shivaji Maharaj, the students followed Shivaji Maharaj and then Maha Aarti was performed. After that, the volunteers distributed breakfast, at the end. The culture committee head Mr. Sohan Kolhe announced the end of the program.

Glimpses of Celebration

Guest Lecture on

"Contract & E- Tendering System"

07th March 2024

The department of Civil Engineering, College of Engineering and Technology North Maharashtra Knowledge City, Jalgaon organized a guest lecture "Contract & E- Tendering System in Govt. Agencies" on 07/03/2024.

The Guest Speaker Mr. Y.J. Sapkale , Govt. Contractor , Jalgaon was heartily welcomed by Prof. D. G. Pardeshi Head of the Civil Engineering department .

He discussed about various contract come in civil project with filling it online. He told Process-Government tenders are usually published on the CPPP or GeM (Government e-Marketplace) platform and you stand a chance to win eTenders on GeM portal if you apply correctly. These are the most widely used channel for public procurement in India. You will have to register on the GeM portal and login to apply for tenders.

System - Electronic tender, or eTender, is the process of sending and receiving bid tenders using online procurement platforms. E-Tendering makes a huge difference to the procurement process as it offers improved visibility, compliance and decision-making across source-to-pay (S2P) operations.

Glimpses of Guest Lecture

"A Visit at Water Treatment Plant, Waghur"

21th May 2024

On 21st May, 2024 at 10.30 am students reached at water treatment plant, Waghur. At starting Mr.Yadav given the basic knowledge about water treatment process, they explain to students about The main objectives of water treatment are

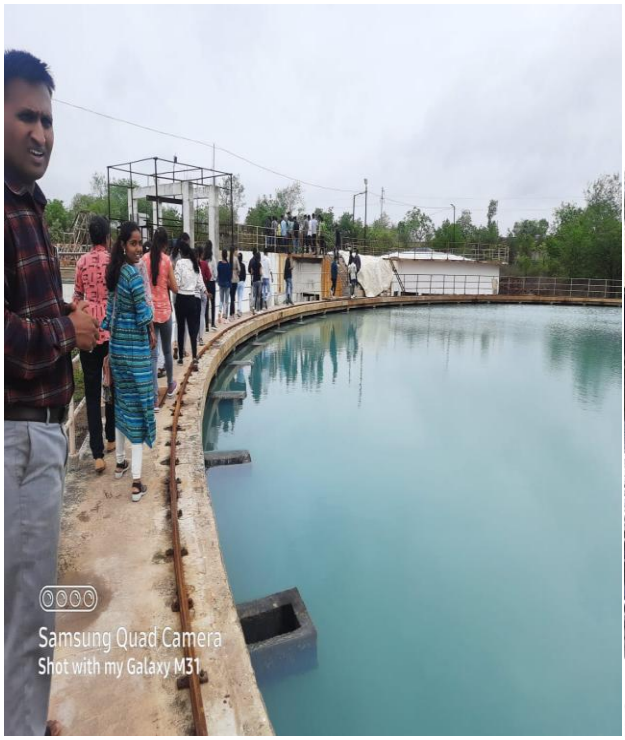
(i) to provide safe drinking water (ii) provide bacteria free water to city

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.

- **Primary treatment**:- Aeration is the process of adding air into water. Dissolved gases are then remove from the water and allowed to escape in to the surrounding air. Various methods are adopted in this method but in visited side cascade aeration method is used for freshmen of water.
- **Secondary treatment**:- Secondary water treatment use as biological treatment to purify the water for safe drinking purpose. in this treatment process there is use the rapid sand filter it also called as RSP. In rapid sand filter Narmada sand is used for purification of water. Flocculation is a process in which neutralize particles are gotten intimate contact with each other and with a sticky precipitate resulting in the formation of bigger size particles that can get easily settle in the following sedimentation tank.
- **Tertiary treatment**:- Tertiary treatment is the next water treatment process after secondary treatment. This step removes stubborn contaminants that secondary treatment was not able to clean up. Wastewater effluent becomes even cleaner in this treatment process through the use of stronger and more advanced treatment systems.

Glimpses of Site Visit



"Tree Plantation Drive in College Campus"

24th June 2024

Every man needs the oxygen for their life and Trees are the foremost source of oxygen as well trees help to reduce the level of co2. As we all know that the whole world is facing the problem of global warming and to recover from such problem planting the trees has become one of the most important today's aspects.

The Tree Plantation was organized by the students of Civil Engineering department at KBS's College of Engineering & Technology, North Maharashtra Knowledge City, Jalgaon.

On the occasion of farewell the last year batch A.Y. 23-24 planted more than 5 trees. The students also placed bricks as barricades and each student took the responsibility to nourish and maintain the allocated plant.

Glimpses of Tree Plantation

“Farewell Party ”

28th June 2024

The Students, Staff and Management of Civil Engineering Department of KBS’s College of Engineering & Technology, North Maharashtra Knowledge City, Jalgaon. Farewell To The Outgoing Students of Final Year Degree On Friday, 28 JUNE, 2024. The Event was organized by Civil Department, who gave their Best Wishes to Their Seniors.

The Farewell Party Was Celebrated With Fervor At The College Campus. It Was An Occasion For The Outgoing Students To Reminisce Their Joyous Moments. The Auditorium Was Adorned With Flowers, Garlands And Decorations Keeping In Mind The Theme For The Farewell

The Event Commenced With Lamp Lighting And Blessings From The Collage Principal, Dr. P. N. Patil Who Has Always Generously Imparted His Wisdom To His Pupils And Guided Them Towards The Right Path.

Glimpses of Farewell