

NEWS LETTER OF CIVIL ENGINEERING

VOLUME - 2 OF 2023

INSIGHT

A PERFECT INSIGHT OF WHAT'S GOING INSIDE



TECHNO COLLEGE OF ENGINEERING AGARTALA
MAHESHKHOLA, AGARTALA, TRIPURA WEST

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- **DR. ARPAN LASKAR**
(HOD OF CIVIL ENGG. DEPT. TECA)
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- **MR. AVIK PAUL**
(ASST. PROF. OF CIVIL ENGG. DEPT. TECA)
- **PRITHA SENGUPTA**
(C.E. 4TH YEAR)
- **RAJAT BHOWMIK**
(C.E.C.A. 3RD YEAR)
- **SHIBAJYOTI SEN**
(C.E.C.A. 4TH YEAR)

VISION:

To be a pioneering center of excellence in civil engineering education, research, and innovation, dedicated to producing adept professionals who shape the future of infrastructure and sustainable development.

MISSION:

- To provide comprehensive and cutting-edge education in civil engineering and foster critical thinking, creativity, and ethical values among students.
- To engage in impactful research and innovation that addresses real-world challenges, contributing to advancements in civil engineering practices and technologies.
- To actively collaborate with industry partners, bridging the gap between academia and practice, to ensure that our graduates are well-prepared to meet the evolving demands of the engineering profession.
- To cultivate a culture of lifelong learning among students and faculty, encouraging continuous skill development, professional growth, and staying up-to-date with the evolving field of civil engineering.
- To enable and empower students to embark on higher education paths and engage in career-enriching courses.
- To guide and nurture students in cultivating innovative thinking that aligns with entrepreneurial endeavors.

MESSAGE FROM PRINCIPAL'S DESK



Dr. Dibakar Deb

Principal of Techno college of engineering Agartala

Dear members of our esteemed institution,

I am pleased to address you through our department's newsletter, a valuable platform that showcases the excellence and commitment that define our institution.

In these dynamic times, it's vital that we reflect on our journey and the milestones we've achieved. Our institution has consistently strived for academic excellence, and I am proud of the dedication and hard work exhibited by our faculty, staff, and students.

This newsletter is a testament to our unwavering commitment to knowledge, innovation, and community engagement. It brings to light the exceptional achievements of Civil Engineering Departments, the ground breaking research, and the talented individuals who make our institution stand out.

As we look ahead, let us continue our pursuit of excellence in all our endeavors. Together, we shall embrace the challenges and opportunities that come our way, always guided by the principles of quality education, research, and service.

Thank you for your dedication and commitment to our shared vision, and I anticipate another year of growth, success, and excellence.

MESSAGE FROM HEAD OF THE DEPARTMENT



Dr. Arpan Laskar

Head of the department
Civil Engineering

Dear colleagues, students, and friends of the Civil Engineering Department, I am delighted to welcome you to another exciting edition of our departmental newsletter. As we navigate through the ever-evolving field of Civil Engineering, our commitment to excellence and innovation remains unwavering.

In the past year, our department has achieved remarkable milestones, thanks to the dedication and hard work of our faculty, staff, and students. From ground breaking research projects to community outreach initiatives, we continue to make a positive impact on society. I would like to express my heartfelt appreciation to all of you who have contributed to our department's success. Your passion and commitment drive us forward, and I am proud to lead such a talented and dedicated team.

In the pages of this newsletter, you will find highlights of our department's accomplishments, student achievements, and upcoming events. I encourage you to explore these stories, engage with our community, and stay informed about the exciting developments in Civil Engineering.

As we look ahead, let us continue to foster a culture of collaboration, innovation, and sustainability. Together, we can overcome challenges, push boundaries, and create a brighter future for Civil Engineering.

Thank you for being a part of our department's journey, and I am eager to see the remarkable achievements that lie ahead.

MESSAGE FROM EDITORIAL TEAM MEMBERS



ADVISIOR

DR.AR PAN LASKAR(HOD OF CIVIL ENGG. DEPT. TECA)

MR. DEEP CHAKRABORTY(ASST. PROF. OF CIVIL ENGG. DEPT. TECA)

MR. AVIK PAUL (ASST. PROF. OF CIVIL ENGG. DEPT. TECA)

EDITORIAL TEAM

PRITHA SENGUPTA (C.E. 4TH YEAR)

RAJAT BHOMIK (C.E.C.A. 3RD YEAR)

SHIBAJYOTI SEN (C.E.C.A. 4TH YEAR)

We the student of CE and CECA department are extremely delighted to be a part of this newsletter. we have been able to discover new dimensions of our college and ourselves while curating this newsletter “INSIGHT”. and we are looking forward to make this publish a huge success

INDEPENDENCE DAY



India's Independence Day is a significant and historic event in the country's history. On August 15, 1947, India achieved independence from British rule after nearly 200 years of colonization. The struggle for freedom was led by various prominent leaders like Mahatma Gandhi, Jawaharlal Nehru, Sardar Vallabhbhai Patel, and many others, who advocated non-violent civil disobedience and peaceful protests to attain independence.

On the eve of Independence Day, the Prime Minister of India addresses the nation from the Red Fort in New Delhi, reflecting on the country's progress, achievements, and future goals. Flag hoisting ceremonies take place at various government and public buildings, and people from all walks of life participate in the celebrations.

Independence Day is a time for patriotic fervor and unity, with cultural programs, parades, and various activities taking place throughout the country. Schools, colleges, and community organizations organize events to remember and honor the sacrifices made by freedom fighters during the struggle for independence.

India's Independence Day also serves as a reminder of the importance of democracy, secularism, and the values enshrined in the country's constitution. It is an occasion for citizens to reflect on their responsibilities and contributions towards building a stronger, more inclusive, and prosperous nation.

PRE-DIWALI CELEBRATION



Diwali is a significant cultural and religious festival for our society. Celebrating it in college allows them to uphold and share their cultural heritage, fostering a sense of belonging and pride in their traditions. Diwali celebrations bring a festive atmosphere to the college campus, creating a sense of joy and unity among students and staff. Diwali celebrations can include educational components, such as workshops or presentations, where students can learn about the history, mythology, and cultural aspects of the festival. It provides an opportunity for students to come together, build connections, and strengthen their sense of community within the college. Diwali is often associated with values like compassion, generosity, and the triumph of good over evil. Celebrating it in college can reinforce these values among students. Celebrating Diwali in college serves as a way to celebrate diversity, educate students about different cultures, promote unity, and create a joyful atmosphere that enhances the overall college experience.

IEI STUDENT CHAPTER



The Institution of Engineers (India), often abbreviated as IEI, is a prestigious professional organization founded in 1920 to promote and advance the field of engineering in India. It is one of the largest multidisciplinary engineering organizations in the world, with a rich history and a significant impact on the engineering community.

IEI serves as a platform for engineers from various disciplines, including civil, mechanical, electrical, and more, to come together, share knowledge, and collaborate on engineering projects and research. The institution plays a crucial role in fostering innovation and excellence in the engineering industry.

One of IEI's notable contributions is organizing seminars, conferences, and technical events to facilitate the exchange of ideas and promote continuous learning among engineers. Additionally, it works closely with the government and other stakeholders to shape engineering policies and standards in India.

POSTER COMPETITION



Diwali is a significant cultural and religious festival for our society. Celebrating it in college allows them to uphold and share their cultural heritage, fostering a sense of belonging and pride in their traditions. Diwali celebrations bring a festive atmosphere to the college campus, creating a sense of joy and unity among students and staff. Diwali celebrations can include educational components, such as workshops or presentations, where students can learn about the history, mythology, and cultural aspects of the festival. It provides an opportunity for students to come together, build connections, and strengthen their sense of community within the college. Diwali is often associated with values like compassion, generosity, and the triumph of good over evil. Celebrating it in college can reinforce these values among students. Celebrating Diwali in college serves as a way to celebrate diversity, educate students about different cultures, promote unity, and create a joyful atmosphere that enhances the overall college experience.

INDUSTRIAL VISIT



These visits offer a chance to interact with industry professionals, which can lead to internships, mentorship, and potential job opportunities in the future.

Students can learn about safety protocols and practices used in the industry, promoting safety consciousness in their future careers.

They can see first hand the latest construction technologies, materials, and techniques, which can inspire innovation and creativity in their work.



Industrial visits provide students with the opportunity to witness real-world civil engineering projects, equipment, and processes, allowing them to bridge the gap between theory and practice.

Students can observe how engineering principles are applied in actual construction and infrastructure projects, gaining practical insights that textbooks alone can't provide.

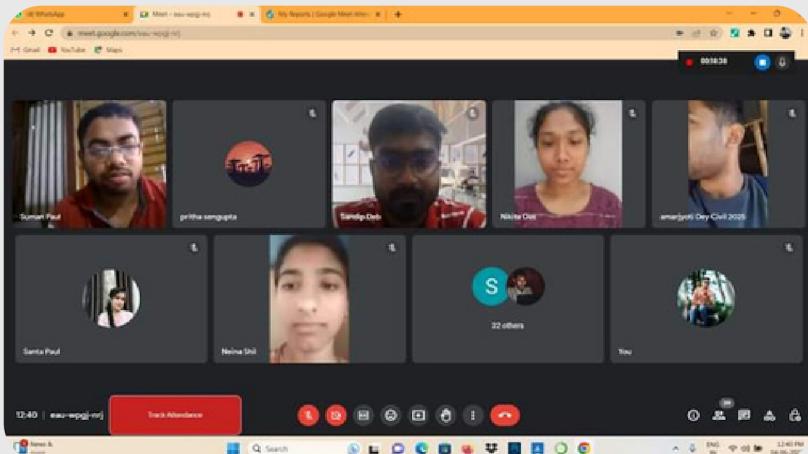


Visiting industrial sites allows students to witness sustainable construction practices and the importance of minimizing environmental impacts.

Seeing successful civil engineering projects in action can motivate and inspire students to excel in their studies and pursue careers in the field.

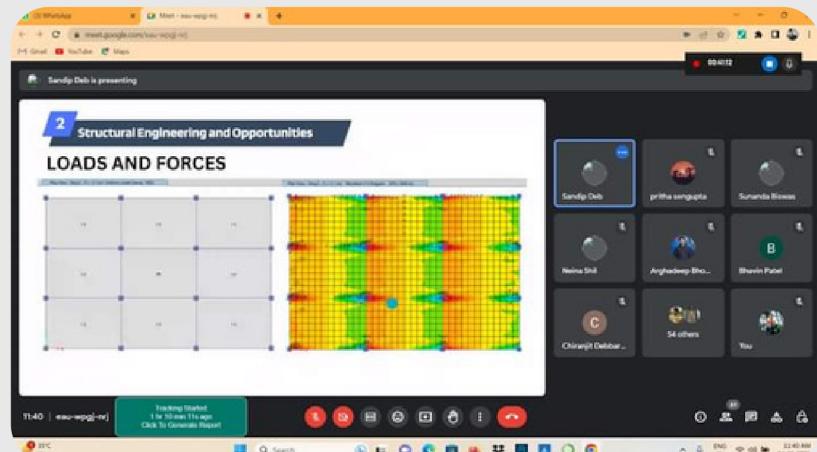
Overall, industrial visits enhance a civil engineering student's educational experience and provide valuable insights that contribute to their professional development.

TECHNICAL TALKS



Technical talks can be both informative and challenging, as they require clear communication and the ability to convey complex concepts in a concise and understandable manner. Presenters and participants need to have a solid grasp of the topic to facilitate meaningful discussions and problem-solving.

The primary goal of technical talk is to disseminate knowledge, foster collaboration, and advance the understanding of the subject matter. It often involves sharing and exchanging knowledge, ideas, and information about complex topics, often using technical jargon specific to the particular domain.



Overall, technical talks play a crucial role in the advancement of different industries, encouraging innovation, and promoting continuous learning among professionals. They help professionals stay updated with the latest developments and trends, which is essential in today's rapidly evolving technological landscape.

WORLD ENVIRONMENT DAY



World Environment Day focuses on a specific theme that highlights a significant environmental concern. Themes in the past have covered topics like climate change, biodiversity loss, plastic pollution, sustainable consumption, and renewable energy, among others. The chosen theme serves as a call to action, inspiring people to take steps towards positive environmental change.

World Environment Day is a global platform that encourages individuals to make small changes in their daily lives, like reducing plastic usage, conserving water, and adopting eco-friendly practices, with the belief that collective efforts can lead to significant positive impacts on the environment.



In World Environment Day is a vital occasion that emphasizes the importance of environmental protection and sustainable practices. It serves as a reminder of our responsibility to safeguard the planet for future generations and fosters a sense of unity and shared responsibility towards the preservation of our natural resources.

QUIZ COMPETITION



Secondly, quiz competitions help enhance memory, critical thinking, and problem-solving skills. Participants are challenged to recall and apply information quickly, improving their cognitive abilities.

Quiz competitions serve several important purposes. Firstly, they encourage and promote a culture of learning and knowledge-seeking. By participating in quizzes, individuals are motivated to expand their knowledge across various subjects



Lastly, quiz competitions can be a valuable tool for educators. They can use quizzes to assess students' understanding of subjects, identify areas of improvement, and tailor their teaching methods accordingly.

Furthermore, quiz competitions foster healthy competition, teamwork, and sportsmanship. They create an environment where individuals can test their knowledge and skills in a fun and engaging way, boosting their confidence and self-esteem.



ESSAY COMPETITION



Essay competitions are essential for several reasons. Firstly, they encourage critical thinking and creativity among participants. By researching, organizing ideas, and presenting them effectively, participants enhance their intellectual skills.

Secondly, essay competitions foster healthy competition, motivating individuals to perform at their best. This competition pushes participants to delve deeper into the subject matter, resulting in well-researched and thought-provoking essays.

Additionally, essay competitions provide a platform for individuals to express their opinions and perspectives on various topics. It helps in developing communication skills and the ability to articulate ideas effectively.

Furthermore, essay competitions often focus on relevant societal issues, promoting awareness and understanding among participants and the general public. This can lead to positive social change as it encourages



Lastly, winning or participating in essay competitions can boost an individual's confidence and serve as a valuable addition to their academic or professional resume. Overall, essay competitions play a crucial role in nurturing intellectual growth, fostering healthy competition, promoting social awareness, and empowering individuals to become better communicators and critical thinkers.

PHOTOGRAPHY CONTEST



Photography allows students to express themselves artistically through visual storytelling. This type of Competitions encourage them to explore different styles and techniques. Photography promotes keen observation and the ability to see the world from different perspectives, fostering a deeper understanding of their surroundings and subjects. It offer a means for students to express their thoughts, emotions, and opinions on various subjects, contributing to personal growth and self-discovery. This contests require students to research topics and develop narratives through their photos, fostering research and storytelling skills. The competitive aspect encourages students to strive for excellence, pushing them to improve their work continuously. Students may have the opportunity to interact with professionals, judges, and fellow photographers during these contests, creating networking opportunities and potential mentorships. photography contests in college offer a valuable platform for students to develop their creativity, technical skills, and personal growth while also fostering a sense of community and potential career opportunities in the field of photography and related industries.

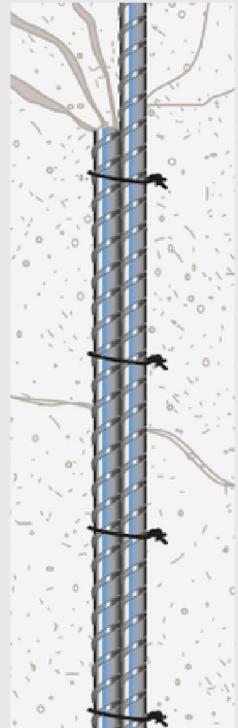
WRITE UP OF FACULTY MEMBER

Asst. Prof. Rahul Ghosh :

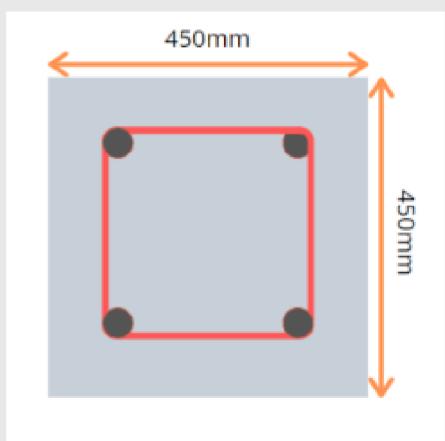
Importance of Reinforcement Detailing in RCC Design & Construction

In reinforced concrete design, detailing plays a crucial role in ensuring the structural integrity and safety of the final construction. Reinforcement detailing involves specifying the layout, size, and spacing of steel bars within the concrete elements, such as beams, columns, and slabs, to enhance their load-carrying capacity and durability. Properly detailed reinforcement ensures the concrete can effectively resist tensile and compressive forces, preventing cracks and ensuring overall stability. Engineers must adhere to the design codes and standards while carefully planning the arrangement of rebars to achieve the desired structural performance, taking into account factors such as the type of load, environmental conditions, and construction requirements. Attention to proper reinforcement detailing helps optimize the structural design, leading to more resilient and long-lasting RCC structures.

Lapping of reinforcement is a common construction practice in reinforced concrete structures, where two pieces of steel reinforcement are overlapped and connected to ensure continuous load transfer along the length of the element. The lapping length is the minimum distance required for proper bond development between the two overlapping bars.



Spacing in reinforcement detailing is of paramount importance in reinforced concrete design. It directly influences the structural performance, durability, and overall behavior of the RCC elements. Adequate spacing ensures that the rebars are positioned optimally to provide sufficient strength and load-carrying capacity. Incorrect spacing can lead to reduced structural capacity and potential failure under heavy loads or seismic events.



Concrete cover refers to the thickness of the concrete layer that surrounds and protects the steel reinforcement inside a reinforced concrete element, such as beams, columns, and slabs. It plays a critical role in maintaining the durability and structural integrity of the concrete element. The concrete cover acts as a barrier, shielding the steel reinforcement from external environmental factors and preventing corrosion.

Asst. Prof. Ranjit Chakma:

Waste to Energy: A process for Sustainable Waste Management



According to a report released by The Energy and Resources Institute (TERI), India generates over 62 million tons (MT) of waste in a year. Only 43 MT of total waste generated gets collected, with 12 MT being treated before disposal, and the remaining 31 MT simply discarded in wasteyards. And the same is expected to increase to 165 MTs by 2031 and 436 million MTs by 2050 respectively. Such a prediction forces us to consider and develop alternatives for addressing our future waste management challenge. A part of the solution will be waste-to-energy (WTE) technologies which will help facilitate sustainable waste management programs by diverting waste from landfills for energy production.

Most green energy and waste disposal methods still have some detrimental effects on the environment. When we evaluate methods like waste incineration, it is often a question of weighing up the pros and cons and seeing it as part of, not the whole solution. It is important for the environmental and scientific communities to continue to explore fossil fuel alternatives and promote Zero Waste paths as we move forward in our battle against climate change. WTE is not without its negatives, but it is better than landfill – and for many countries under pressure to act on climate change.

Asst. Prof.Srila Dey :

Civil Engineering: Building the Sustainable Future

It's a pleasure for me to contribute to our magazine as a faculty member in Civil Engineering Department at Techno College of Engineering Agartala. Society depends on Civil Engineering, which evolves with sustainability and digital innovation. Our students are the future builders and innovators of our infrastructure. These aspiring engineers embark on a challenging educational journey that equips them with the knowledge and skills to design, construct, and maintain the physical infrastructure that underpins modern society. The future belongs to them, and they're poised to make an impact



Dr. Rupali Roy :

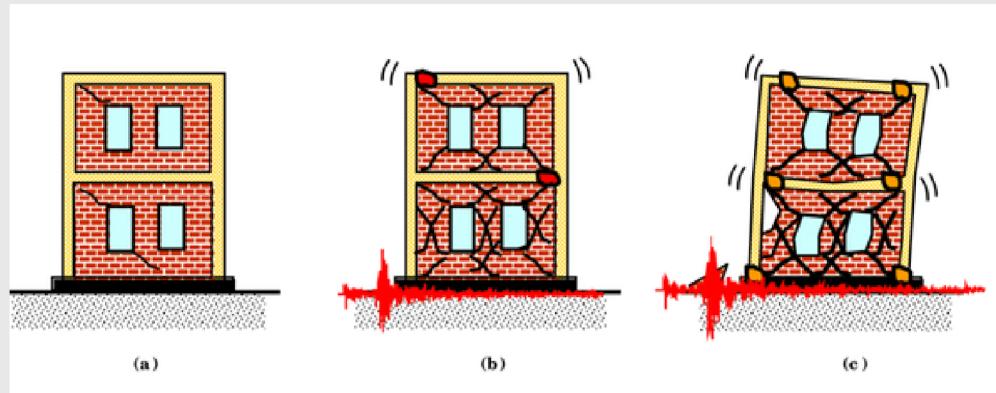
Over view on civil Engineering

A civil engineer is a person who practices civil engineering – the application of planning, designing, constructing, maintaining, and operating infrastructures while protecting the public and environmental health, as well as improving existing infrastructures that have been neglected.

Civil engineering is one of the oldest engineering disciplines because it deals with constructed environment including planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, and water and sewage systems.

Asst. Prof suman paul

Importance of Seismic Analysis & Design of Structural and Non-Structural Elements



Concrete is the second largest useful material in the world after water which means huge construction is going on around us. It is very important for us as a Civil Engineer to follow the proper analysis and design process maintaining IS codes and by laws. Almost all the structure resting on the soil requires a minimum bearing capacity to withstand the structural load. The only soil that looks very simple but full of variability in multiple directions and the plate movements that makes the soil strata vulnerable from a seismicity point of view that requires the structure to be designed as earthquake resistant. From some famous quote- “Earthquakes don’t kill people, buildings do.”, so we must construct a structure that could service the humanity with durable enough instead of losing life. Especially for our state Tripura is under seismic zone V as per the seismic zoning map of India, so it is necessary for all the important structures to go through a definite seismic analysis & design check.

Unlike structural elements, Non-structural elements of a building are not a part of the main load-resisting system. Therefore, these are often neglected from the structural design point of view. Performance in the past earthquake clearly pointed out that in view of the absence or inadequacy of design provisions for non-structural elements and their attachments it has resulted in poor performance of several life line buildings. In India too, non-structural damages are often observed in the earthquakes but are overlooked owing to the obvious attention to the huge loss of human lives and structural damage. Moreover, provisions relating to non-structural elements in Indian seismic codes (IS 1893) are inadequate or practically non-existent that need immediate attention to formulate the criteria for this. Depending on their response during earthquake shaking, non-structural elements can be divided into some categories, namely, deformation sensitive, acceleration sensitive, and both deformation and acceleration sensitive elements. False pillars, Partition wall, piping system running floor to floor, etc., are deformation sensitive elements. Good performance of this type of elements is ensured in two ways, namely, by limiting inter-storey drift of the supporting structure which governs for important elements, and by designing the elements to accommodate the expected lateral displacement without damage. Acceleration-sensitive elements are parapets, appendages, HVAC equipment, boilers and furnaces, etc. These are vulnerable to shifting and overturning. Their performance during earthquakes can be enhanced by designing proper connections and bracing systems. Architects and MEP Designers focused in this area are required to be more alert.

Asst. prof Ranjit Das

Rammed earth construction technique

Soil has been used as a construction material for thousands of years for a variety of reasons including the construction of residences, dams, and other structures. Earthen structures come in a variety of types, among cob structures, adobe, poured, and rammed earth are examples of common earth construction techniques that have been utilised in the past yet are still employed by people all over the world owing to the availability of local materials, cost effectiveness, and improved thermal insulation.



All of the major pouches of civilization have traces of earth structures: the Indus Valley culture, Mesopotamian society, Chinese civilization, Tigris Euphrates civilization, and so on. Archaeologists has discovered evidence of ten thousand years old earthen houses constructed in the Middle East and North Africa, where impressive buildings up to ten stories high have been recorded. The present energy crisis resulting from rapid industrialization has given rise to a major concern about managing the energy resources still available and environmental degradation. As a result, there is an intense on-going search for alternative building materials, which will minimize the energy crisis as well as environmental degradation. In the recent past, rammed earth construction techniques have gained a renewed interest across the world, due to its varied sustainable benefits such as availability of local material (soil on site or near the site), low embodied energy, simple construction procedure, non-polluting etc.

It has been observed that various types of soil such as laterite soil, sandy soil etc., have been found suitable for rammed earth constructions and use of 4-12% cement for cement stabilised rammed earth constructions have been reported. In CSRE constructions, the main ingredients are soil, sand, gravel, and cement. This technique involves dry mixing of soil, sand, gravel, and cement followed by addition of water.



Asst. Prof. Deep Chakraborty: **Technology & its impact on livelihood**



Technology has become an integral part of our lives in today's world. It has gone through several transformations and required changes throughout the time and reached new height. Different core and other related branches have contributed to it on a greater extent. Although there are certain challenges continuously faced in several aspects due to rapidly growing requirements, the solution and resolving of certain difficulties are unique and excellent with the blessings offered by the technical measures adopted. The impact of technology towards the life of people is numerous, useful and undeniable therefore making it most essential. It has made life easier but at the same time it helps to teach the current as well as the upcoming generation how to deal with complex situations and find effective solution to it. But the alarming situation arises when the applications of technology are misused for personal benefit or any other purposes which leads to damage or destructive outcomes and spread the elements of fear, untrust and diplomatic thoughts. This is completely undesirable and creates widespread negativity based on which some positive aspects become uncertain and divert the ideas for betterment of wellbeing. We, the Engineers who are directly related to the technological field needs to take the initiative regarding the adverse effects and wrong use of it through awareness camps so that it helps in communication to the all sections of people and make them realize regarding the day-to-day implementations of technology. This will indeed help to make our environment better compatible to technology and the adaptation of it in future days will be easier and smooth.

Asst. Prof. Mithun Ghosh

The ground reality of groundwater



Living on the Blue Planet can create the impression of an abundance of water sources. 70% of the Earth's surface is indeed covered with water, but of that, a mere 1% forms accessible freshwater sources that supply water for drinking, irrigation, and other purposes. Climate change has further intensified the stress on these scarce water sources and raised concerns regarding their access and usage.

Climate change is at the most crucial stage of the water crisis and the evidence is before us in the form of extreme weather events, floods, droughts, drying rivers and aquifers, and loss of biodiverse ecosystems that help conserve water. Today, several parts of the world are experiencing severe water scarcity, water-related public health risks, and a lowered capacity to counter extreme weather.

Greenhouse gases are directly responsible for rising global temperatures and climate change. Therefore, curbing emissions can go a long way in mitigating climate change and saving water. This can be achieved through various means, such as reducing energy consumption, promoting the use of renewable energy sources, improving energy efficiency, and encouraging sustainable transport. Stronger policies on energy use and pricing carbon can not only advance net-zero goals but also relieve the burden on water sources.

Branch Toppers of 2022 -23

4th year ,B.Tech ,Civil Engineering

7th semester



Subham Roy

SGPA: 9.04



Reshmi Das

SGPA: 8.78

3rd



Shrabani Sarkar

SGPA: 8.65

8th Semester



Shrabani Sarkar

SGPA: 9.09



Priya Biswas

SGPA: 9.09

1st



Subham Roy

SGPA: 8.95



Sourav Dey

SGPA: 8.95

2nd



Sagar Debnath

SGPA: 8.82

3rd year ,B.Tech ,Civil Engineering

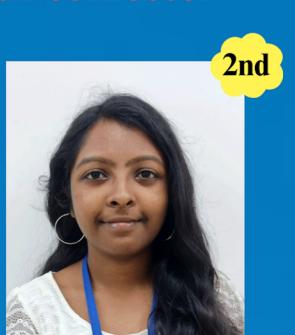
6th semester



1st

Ruma Debnath

SGPA: 9.64



2nd

Pritha Sengupta

SGPA: 9.59

3rd



Atanu Banik

SGPA: 9.05

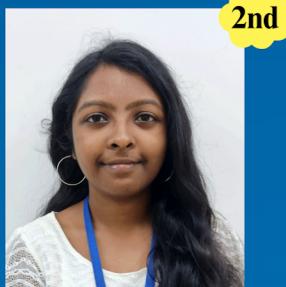
Branch Toppers of 2022-23

5th semester



Ruma Debnath

SGPA: 9.64



Pritha Sengupta

SGPA: 9.36



Mampi Deb

SGPA: 8.91

**3rd year ,B.Tech ,Civil Engineering with
computer application**

6th semester



Shibajyoti Sen

SGPA: 9.24



Nishan Roy

SGPA: 8.95



Tapashree Nag

SGPA: 8.65



Akash Das

SGPA: 8.65

5th semester



Shibajyoti Sen

SGPA: 9.64



Nishan Roy

SGPA: 9.32



Amit Roy

SGPA: 9.23

Branch Toppers

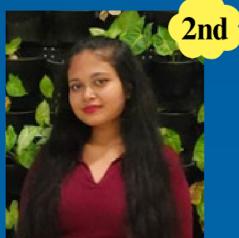
2nd year ,B.Tech ,Civil Engineering
4th semester



1st

Madhurima Deb

SGPA: 8.72



2nd

Tuli Banik

SGPA: 8.64



3rd

Ripa Begam

SGPA: 8.45

3rd semester



1st

Tuli Banik

SGPA: 8.61



2nd

Subham Majumder

SGPA: 8.17



3rd

Ripa Begam

SGPA:

2nd year ,B.Tech ,Civil Engineering with
computer application

4th semester



1st

Krishanu Chakraborty

SGPA: 7.17



2nd

Anirban Debnath

SGPA: 7.04



3rd

Ipsita Deb

SGPA: 6.83

3rd semester



1st

Krishanu Chakraborty

SGPA: 8.71



2nd

Suparna Debnath

SGPA: 8.48



3rd

Souradeep Pal

SGPA: 8.23



TECHNO COLLEGE OF ENGINEERING AGARTALA
Maheshkhola, Aagartala Tripura