



**SANAKA
EDUCATIONAL
TRUST'S GROUP OF
INSTITUTIONS**



**INSTITUTION'S
INNOVATION
COUNCIL**
(Ministry of Education Initiative)



CIVIL ENGINEERING

CHRONICLES

SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS

**Departmental Newsletter (Half yearly)
July 2024 – December 2024, Volume – V, Issue – I
Civil Engineering Department**

**SANAKA EDUCATIONAL TRUST'S GROUP OF
INSTITUTIONS
(A UNIT OF SANAKA EDUCATIONAL TRUST)**

VILL+P.O- MALANDIGHI, P.S- KANKSA, DURGAPUR-713212
APPROVED BY AICTE, AFFILIATED TO MAKAUT, WEST
BENGAL

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**The road to
success is
always under
construction.**

**– Lily
Tomlin**

From the Desk of the HoD

It gives me great pleasure to present the half-yearly newsletter, **Civil Engineering Chronicles, Vol 5 issue 1**, a reflection of the passion, innovation, and determination that define our department. This edition captures the milestones achieved, the knowledge imparted, and the collective growth of our students and faculty in the past six months (July 24 to December 24).

Our journey has been enriched with impactful activities, including expert lectures, Webinars, industry visits, hands-on workshops, and successful project exhibitions. These initiatives are a testament to our commitment to bridging theoretical knowledge with practical applications, fostering holistic development, and nurturing the engineers of tomorrow.

I express my heartfelt gratitude to our dedicated faculty, enthusiastic students, and the editorial team for their invaluable contributions. Together, we continue to set benchmarks of excellence and innovation. Let us move forward with the same zeal, paving the way for a sustainable and brighter future.



Dr. Dhananjay Mandal

Associate Professor,
Head of the Civil Engineering
Department,
Sanaka Educational Trust's Group of
Institutions

Institutional Mission & Vision

Vision

To emerge as a Centre of higher learning fostering a mutually beneficial relationship between professional competency and human values.

- To imbibe the outcome-based education system for continuous development of professional, social and ethical skills.
- To engage in research and innovation pertaining to the environmental concerns and societal needs.
- To forge collaborations with industries, academia of repute, research Centre's, and professional bodies to stay relevant and contemporary.

Mission



Departmental Mission & Vision

VISION

The Department of Civil Engineering envisages to be recognized as excellence in engineering, technology, and innovative design solution and to promote high standard, outstanding and ethically fair civil engineers who can contribute to the technological and socio-economic development of the nation.

MISSION

- Academic Excellence
- Competency, Social Responsibility & Sustainable Development
- Ethics & Values

PROGRAM OUTCOME

- | | | |
|---|--|--|
| <ul style="list-style-type: none">• Engineering Knowledge• Problem Analysis• Design/Development of Solutions• Conduct Investigations of Complex Problems | <ul style="list-style-type: none">• Modern Tool Usage• The Engineer and Society• Environment and Sustainability• Ethics | <ul style="list-style-type: none">• Individual and Team work• Communication• Project Management and Finance• Life-long Learning |
|---|--|--|

PEO

- To impart fundamental knowledge of basic science, humanities, engineering and technology to transform the students into expert civil engineers.
- To nurture the students' design, analytical skills, and mental ability for decision-making and solving critical problems in the civil engineering domain.
- Create themselves as responsible professionals with awareness about sustainable development, environmental problems and economic and societal issues related to human values and engineering ethics.

"The function of education is to teach one to think intensively and to think critically. Intelligence plus character – that is the goal of true education."

– Martin Luther King Jr.

CONTENTS

- Achievement in Briefs
- Papers Presented/Published
- Departmental Activities
- Faculty Activities
- Student Activities
- Civil Engineering Facts

"A good newsletter is not about selling but about telling – telling stories that connect, engage, and inspire."

- Ann Handley

Editorial Board

Student Editors:

Rittick Pal, Tapas Goswami, Ankita Pramanik, Bibek Roy, Jubeda Khatun

Faculty Editors:

Dr. Arya Das, Dr. Sukanta Karati, Ms Puja Haldar, Mr. Minal Hasan



Achievement in Briefs

- Faculties have published 3 Research Publications in peer-reviewed journals. Among them two journals have been published with The American Society of Civil Engineers (ASCE) Journal.
- 1 new faculty member joined the department as Associate Professor.
- 1 new faculty member joined the department as Assistant Professor.

Departmental Activities

- Civil Engineering faculty members planned an Industrial Visit with students to familiarize them with the water treatment procedure.
- Civil Engineering faculties have organized a **Faculty Development Program**, “Sustainable and Resilient Infrastructure Development using Advanced Materials and Technology”.
- Civil Engineering faculties have organized a **Technical Assistant Training Program**, “Paving the Way”.
- Engineering faculties have organized a **Short term Certificate Course** for all the Civil Engineering students in and out of the institute.
- From the Department of Civil Engineering, Mr Minal Hasan has conducted an **awareness session** on “The Importance of MAR in Graduation”



- Civil Engineering faculty members have organized an **webinar**, “Frontier of knowledge: A deep Dive into Cutting Edge B.Tech Final Year Project”.
- Civil Engineering faculty members have organized an webinar on “**Traffic Engineering**”. Speaker of the webinar was Dr. Gourav Sil, Assistant Professor, IIT Indore
- Civil Engineering faculty members have organized an **Expert talk on Material and their Application in a circular Society**: Practical Solution for A Circular Economy” Given By Dr. Krishnau Roy, Associate Professor, Waikato University, New Zealand

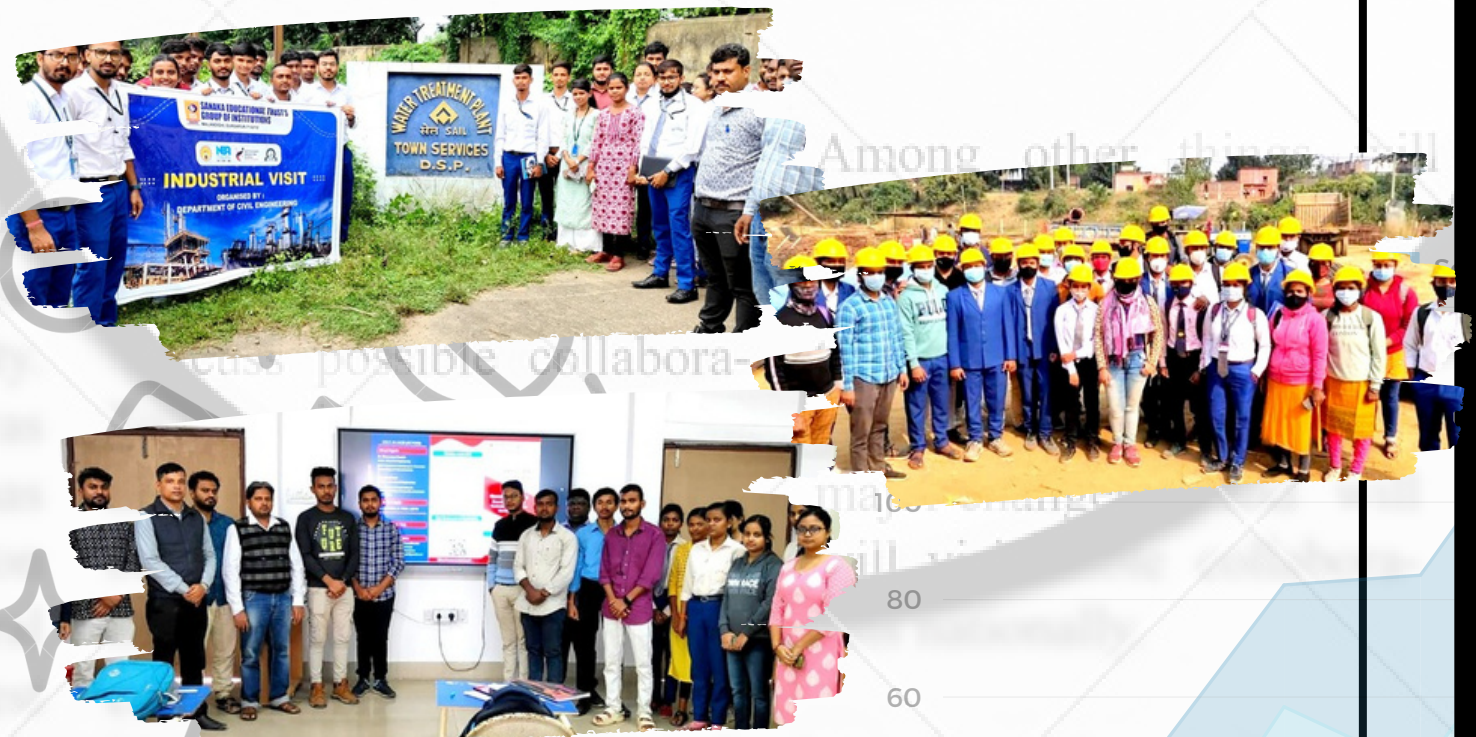
"Fostering Innovation"

An Initiative to Cultivate a Thriving Research Culture

The session concluded with a vibrant discussion among the faculty members, who expressed their enthusiasm for the initiative and their willingness to contribute to the research culture within the department. The event was a significant step toward building a robust research environment, and it set the stage for future advancement in the "Fostering Innovation". The Department has decided to form a research group "**Civil Engineering Dynamics and Innovation**" and conduct regular weekly discussion regarding the new research ideas and discussions through different activities.



WE SANAKAITES CIVILIANS, AT A GLANCE



Expert Talk

SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS
MALANDIGIRI, DURGAPUR-713212

EXPERT TALK

"MATERIALS AND THEIR APPLICATION IN A CIRCULAR SOCIETY : PRACTICAL SOLUTIONS FOR A CIRCULAR ECONOMY "

Organised by
Department of Civil Engineering, SETGOI Durgapur



Dr. Krishanu Roy
Senior Lecturer
University of Waikato,
New Zealand

06TH DECEMBER, 2024
Time: 3:00 P.M. TO 4:00 P.M.
Venue: Sanaka Educational Trust's Group of Institutions

NBA ACCREDITED FOR ACADEMIC YEAR 2024-25 TO 2026-27

Short Term Certificate Course on Water Resources Engineering

SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS
NBA ACCREDITED FOR ACADEMIC YEAR 2024-25 TO 2026-27

Short Term CERTIFICATE COURSE

"Aqua-Tech"

Innovating Water Resources Through Practical Lab Training

Orientation Program

SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS
INSTITUTION'S INNOVATION COUNCIL
NBA ACCREDITED FOR ACADEMIC YEAR 2024-25 TO 2026-27

Inception of Innovation

An Orientation Program



DEPARTMENT OF CIVIL ENGINEERING
10TH Dec. 2024 | AT 2:00 PM | VENUE: SMART ROOM-410

Faculty Development Program

SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS
DURGAPUR

Faculty Development Program on

"Sustainable and Resilient Infrastructure Development Using Advanced Materials and Technology"
(SRIDAMT)

Date: 16th Dec. to 20th Dec. 2024
Mode: Online

Tree Plantation Program

SETGOI

Eco Bloom: Nurturing Nature, Growing Together

- Tree Plantation Program

DATE- 7th Oct, 2024
VENUE- SETGOI CAMPUS
ORGANIZED BY- CIVIL ENGINEERING DEPARTMENT



Technical Assistant Training Program

SANAKA EDUCATIONAL TRUST'S GROUP OF INSTITUTIONS
MALANDIGIRI, DURGAPUR, 713212

PAVING THE WAY

Transportation Engineering Lab Skills Workshop Training Program

A TECHNICAL ASSISTANT TRAINING PROGRAM



By, Dr. Sukanta Katati
[Ph.D., IEST Shillong]
(Assistant Professor, CE, SETGOI)

Date: 23rd Dec. to 26th Dec. 2024
Venue: Civil Smart Room 410

Time: Morning Session: 11:30 AM to 1 PM
Afternoon Session: 2 PM - 4:30 PM

Duration: 3 Days (Offline)

Scan to Apply

Reg. Link : <https://forms.gle/hVHCrhLiqVnR0ys8> Reg. Fees: 200/ only

ORGANIZED BY
DEPARTMENT OF CIVIL ENGINEERING
Sanaka Educational Trust's Group of Institutions
Malandigiri, Durgapur, 713212

PROGRAM COORDINATOR
MR. MINAL HASAN
Ph. No. - 9872935830
E-Mail ID: minh.setgoi@gmail.com



Felicitation of the Students



Webinar on Transportation Engineering

TRUST'S GROUP OF INSTITUTIONS
A UNIT OF SANAKA EDUCATIONAL TRUST



WEBINAR ON TRAFFIC ENGINEERING

ORGANISED BY :
DEPARTMENT OF CIVIL ENGINEERING



25TH OCTOBER, 2024
12 : 00 P.M. ONWARDS

KEYNOTE SPEAKER
DR. GOURAB SIL
ASSISTANT PROFESSOR
CIVIL ENGINEERING DEPARTMENT

Felicitation of the Students



Short Term Certificate Course on Structural Engineering

SETGON
SANAKA
EDUCATIONAL
TRUST'S GROUP OF
INSTITUTIONS
NBA ACCREDITED FOR ACADEMIC YEAR 2024-25 TO 2026-27

Short Term
**CERTIFICATE
COURSE**

Concrete Mastery
Essential Laboratory
Techniques for Modern
Construction

Student Activities:

- Students of Civil Engineering had participated in Technical event with 4 working project models and performed to their best of effort.
- 1 no of Students from Civil Engineering Department have selected for Internship project collaborated with department of Civil Engineering , University of Waikato.
- Students of Civil Engineering had participated in Tree Plantation Program, “Eco Bloom: Nurture Nature, Growing Together” .
- Students of Civil Engineering had participated in Work-shop.



What am I?

1. I am above the ground and the opposite of a villain? (Hint-Structure)
2. I am below the ground and at the start of a sandwich shop? (Hint-Structure)
3. I am named after a prince and lock down on you from 825 m? (Hint-Building)

Riddle me this!!

4. A construction worker fell off a 100-foot ladder but didn't die. How is that possible?
5. I can't go left, can't go right. I am forever stuck in a building over three stories high. Who am I?
6. A son & engineer go fishing, the boy was engineer's son but the engineer wasn't the boy's dad. How was that possible?



CIVIL ENGINEERING FACTS

- The Great Wall of China: Spanning over 13,000 miles, the Great Wall is one of the most remarkable feats of ancient civil engineering, built using a mix of bricks, tamped earth, wood, and stone.
- Burj Khalifa, Dubai: The world's tallest building, at 828 meters, required over 330,000 cubic meters of concrete and is a marvel of modern civil engineering design and construction.
- The Panama Canal: A masterpiece of civil engineering, the canal cuts through 82 kilometers of land and connects the Atlantic and Pacific Oceans, significantly boosting global trade efficiency.
- Three Gorges Dam, China: The largest hydropower project in the world, this engineering marvel generates 22,500 megawatts of power and serves as a flood control mechanism for millions.
- Millau Viaduct, France: The tallest bridge in the world, standing at 343 meters, was constructed with precision engineering to blend seamlessly into the environment while supporting modern transport.