



KALEIDOSCOPE

2023-24

ASSAM ENGINEERING INSTITUTE

CHANDMARI, GUWAHATI-03

CIVIL ENGINEERING DEPARTMENT

VISION OF THE DEPARTMENT

To be a centre of excellence by providing education consistent with overall progress in Civil Engineering for the upliftment of the society.

CHANDMARI, GUWAHATI-781003

MISSION OF THE DEPARTMENT

- To prepare student to supervise and work as a team in multi-disciplinary projects.
- To impart updated knowledge about the modern approach in construction methodology.
- To install ethical values in Civil Engineering practice & its socio-cultural impact encompassing public utilities and services.
- To establish himself/herself as a proud citizen of the society in addition to technical competence.



CORE VALUES

- Competency
- Ethics
- Adaptability
- Team Spirit
- Societal Concern

PROGRAM EDUCATIONAL OBJECTIVES OF THE DEPARTMENT

- PEO 1: To apply the knowledge of Civil Engineering to solve problems of social & environmental relevance and for pursuing higher education
- PEO 2: To prepare for successful careers in industry or to become entrepreneurs.
- PEO 3: To work effectively as individuals and as team members in multi-purpose projects.

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ABOUT CIVIL ENGINEERING DEPARTMENT

ASSAM ENGINEERING INSTITUTE WAS FOUNDED ON 16TH JANUARY 1948 AS ASSAM CIVIL ENGINEERING SCHOOL WITH JUST ONE PROGRAMME THAT IS DIPLOMA IN CIVIL ENGINEERING. THE DEPARTMENT, EVOLVED OVER A SPAN OF 7 DECADES TO WHAT IT STANDS TODAY AS THE LARGEST DEPARTMENT OF THE INSTITUTE WITH A STUDENT'S INTAKE OF 100 AND MORE. THE METAMORPHOSIS FROM SLIDE RULES TO CALCULATORS, FROM BLACK-BOARD TO SMART BOARD, FROM DRAWING BOARDS TO AUTO-CAD, FROM INPUT BASED EDUCATION TO OUTPUT BASED EDUCATION, FROM THEORY BASED EDUCATION TO SKILL BASED EDUCATION HAS BEEN A BIG ONE. CIVIL ENGINEERING DEPARTMENT OF ASSAM ENGINEERING INSTITUTE WITH A TEAM OF HIGHLY PROFICIENT TEACHERS SUBSCRIBES TO THE VIEW THAT ENGINEERING IS NOT JUST ABOUT MATHEMATICS AND SCIENCE BUT ALSO ABOUT UNDERSTANDING SOCIETY'S PROBLEMS AND FINDING SOLUTIONS. IT STRIVES TO GIVE ITS GRADUATES "WINGS TO FLY" WITH THE RIGHT KIND OF TECHNICAL KNOWLEDGE AND SKILLS AND "ROOTS TO STAY GROUNDED" WITH ETHICS AND SOCIAL VALUES.

MESSAGE FROM THE PRINCIPAL

I am very glad to know that the Civil Engineering department is bringing out the Newsletter named KALEIDOSCOPE.

I congratulate the faculty members, Students & other supporting staff for successful competition of the Newsletter.

I am sure that the newsletter will bring out the hidden talent of faculties, students and staff in the field of departmental activities and will also encourage the faculties and students to understand the different activities to be done for continuous improvement of the department.

**PRINCIPAL ASSAM ENGINEERING INSTITUTE
DR. HITESH TAHBILDAR**



Dr. Hitesh Tahbildar
Principal

FROM THE HOD'S DESK

It gives me immense pleasure to know that the third edition of the newsletter kaleidoscope for the year 2023-24 is going to be published shortly. I'd like to congratulate the entire team led by Ms Roshanara Madam and our dear students Mr Priyo J. Brahma and Mr Sambhab D. Kashyap . I wish all the students will give a little time to go through the newsletter and to be enlightened themselves about our achievements, visions and mission of civil engineering department in various fields and make themselves inspired to add laurels to the department.

**HOD CIVIL DEPARTMENT
ANJAN BARMAN**



Mr. Anjan Barman
HOD CIVIL Department



ROSHANARA BEGUM
EDITOR IN CHARGE

MESSAGE FROM THE EDITOR

I am extremely delighted to be associated with the 3rd edition of Kaleidoscope. Just like a kaleidoscope reveals different patterns with few turns this newsletter highlights the achievements, activities and aptitude that exist in the department as one flips through the pages. Working with young minds has been an extremely enriching experience. It was a collaborative effort of the newsletter team supported by many invisible minds. I am grateful to each one of them and look forward to the publishing of the next.

EDITOR IN CHARGE
ROSHANARA BEGUM

MESSAGE FROM STUDENT EDITOR

This is our utmost pleasure to work on the newsletter kaleidoscope 3rd edition for our department. And to recap and showcase our Institute journey in a successful year of 2023-24 as final year students.

We are ever so grateful to our respected teacher and faculty member of our department and special thanks to all the our class mates , juniors and seniors who helped us make this newsletter and present it to you

Thank you

STUDENT EDITORS
SAMBHAV KASHYAP DEKA
PRIYO JYOTI BRAHMA



Priyo Jyoti Brahma



Sambhav D Kashyap

WORDS OF WISDOM FROM A RETIRED FACULTY

Due to technological advancement in the industries, the demand for highly trained manpower with up-to-date knowledge has grown and the demand is increasing with time. The institutions are finding it difficult to keep pace with updating their syllabus and training the trainer and the trained. In the process of teaching/learning, students spend a lot of their time inside the boundary walls of the classrooms. The age old 'chalk and talk' method of teaching has not proved to be a very effective way of transferring knowledge to produce quality manpower. Teachers are more concerned about completing the course within the limited number of class hours and students are more concerned about passing examinations by somehow memorizing the class notes given by the teachers, the casualty is effective knowledge transfer. With these major developments in teaching/learning and students being able to access a lot of information with the click of a mouse, question arises, what is the role of the teachers then? In this changing scenario the role of a teacher further increases. Besides being just a source of knowledge and information teachers now also have to guide the students to extract the exact information from a vast sea of scattered necessary and unnecessary information in the cyberspace. For that, the teachers must also keep themselves updated with latest developments in the educational technology field and various up-to-date teaching and learning tools.

~Chitta Ranjan Singha Rettd faculty **ELECTRONICS**.

MEET THE DEPARTMENT

STANDING FROM LEFT: Roshanara Begum, Dilip Kumar Baishya, Ajanta Das, , Barnali Roy Choudhury, Mokaddes Hussain, Dhriti Khaund, Anjan Barman.

SITTING FROM LEFT: Rajlakshmi Dutta Goswami, Manisha Sharma, Bandana Sarma, Anita Saikia



Sketch gifted by : Kirti Kamal Medhi



VISITS AND INTERACTIONS



Industrial Visit on Waste Fresh Air Management

On 26th of February an industrial visit was organized by the 6th semester students of civil engineering department accompanied by our faculty members Anjan Barman, Dilip Baishya, Bandana Goshwami and Barnali Rai Choudhary

About Fresh Air Waste Management

Fresh Air Waste Management Services Pvt. Ltd. or Fresh Air is the pioneer in the disposal of Bio-Medical Waste and liquid waste management in the whole NE region. The organization registered under companies act 1956 was established with an objective of working for pollution control of both air and water and has been in operation since the year 2003. The organization, has practically implemented the idea of Common Bio-medical Waste Treatment Facility (CBWTF) for the first time in the whole North Eastern Region





Rapid Visual Screening Training, Organised by Assam State Disaster Management Authority (ASDMA) In collaboration with AEI



Presentation on working of Total Station ~ Forjul Islam, Alumni



Lecture on importance of soft skill for personality development ~Mrs Trishna Barman Lecturer, Humanities, AEI



Lecture on how to write and present seminar paper ~ Dr Indrani Gogoi TPO, Office of the DTE, Guwahati, Assam



Lecture on career guidance ~Buljit Buragohai



Hands on training program on NDT & its application ~ Mr Animesh Deka, Alumni Engineer at Interior Decorations ~ Mr Rafikul Haque, Alumni PHE, Junior Engineer



Awareness on different career options ~ Mr Bhaskar Jyoti Haloi Managing Director of VISIONARY DEVELOPMENT GROUP



Visit to brick factory near sonapur ~ In the guidance of faculty member



EXCURSION 2023-24

During their final semester the students of CIVIL engineering department visited Sikkim, Gangtok. With energy and enthusiasm the students got to learn about constructions of tunnels through mountains for laying railway lines from Gangtok to NJP, road construction in mountain area and disaster control for emergencies while also enjoying the time with good company.



**“Travel makes one modest, You see what a tiny place you occupy in the world”
~Gustav Flaubert.**



STUDENT PARTICIPATION IN VARIOUS EVENTS

AEC PYROKINESIS



WINNER OF TOOTHPICK TOWER COMPETITION
1st PLACE:- UDIPTA N GOGOI & HIMANGSHU BORA
2nd PLACE:- DEEPSHIKA BARMAN & NILABH J SARMA

WINNER OF ROADIES 1.0
1st:- RIPAN PATHAK

AEI UNIVANGUARD 1.0



AEI UNIVANGUARD 1.0 WAS ORGANIZED BY THE JOINT EFFORTS OF THE CIVIL ENGINEERING DEPARTMENT AND THE OTHERS IN THE BOYS HOSTEL AND THE GROUND OF ASSAM ENGINEERING INSTITUTE

WINNERS
TABLE TENNIS
3rd prize :- UDIPTA NAYAN GOGOI

CARROM
1st prize:- AHIRAN BHATTACHARYA

"TALENTS WINS GAMES BUT TEAMWORK AND INTELEGENCE WINS CHAMPIONSHIPS"



COLLEGE WEEK AND SPORTS WEEK 2023-24



Maintaining a decade of legacy the the Civil department continued to show their talent, skill, hardwork and determination in different fields in the 73rd Institute cultural and sports week

WINNERS!!

CULTURAL RALLY:-

1st prize CIVIL

MAGAZINE DISPLAY:-

1st prize CIVIL

EXTEMPORE SPEECH COMPETITION:-

Banashree Choudhury
3rd DONNA SONOWAL

**STORY WRITING
AND POEM WRITING:-**

1st prize Darshana Baishya

POEM RECITATION COMPETITION:-

3rd Donna Sonowal
3rd Mrinmoy Barman

QUIZ COMPETITION :-

First prize CIVIL

SINGING COMPETITION:-

BEST SINGER:- Chayanika Sharma
PRIZE WON:-

BORGEET SINGING 3rd

RABHA GEET SINGING 3rd

JOYTI SANGEET SINGING 1st

BHUPENDRA SANGEET SINGING 3rd

ADHUNIK GEET SINGING 2nd

BIHU GEET SINGING 2nd

DANCE COMPETITION:-

1st Rippon Pathak

DEBATE COMPETITION:-

1st prize Dhiman Deori





SPORTS WEEK



WITH HARDWORK AND
DEDICATION COMES THE
RESULTS

WINNERS!!

MENS FOOTBALL :-
FIRST PRIZE CIVIL

WOMEN'S VOLLYBALL:-
FIRST PRIZE CIVIL

CARROM 1st:-
AHIRAN BHATTACHARYA

WOMENS ARM WRESTLING:-
DIKSHITA DAS

MENS ARM WRESTLING:-
JIGYASH PRAN HAZARIKA

TRACK AND FIELD EVENTS:-

ARNAB JOYTI KASHYAP :-
100m 1st, 200m 2nd, 400 2nd
HIGH JUMP -3rd, Long Jump-1st
DISCUSS THROW -1st, SHOT PUT-1st
JAVELIN THROW-2nd

SUFIAN BHUYAN:-
200m 1st, 400m 1st, 800m 1st,
1600m 1st

DIKSHITA DAS:-
100m 2nd, 400m 1st, 200m 1st,
800m 2nd, High Jump 3rd
LONG JUMP 3rd

JAVELIN THROW-1st:-
JIGYASH PRAN HAZARIKA

MEN RELAY RACE 1st :-
TUSAR KRANTI KURMI,
JIGYASH PRAN HAZARIKA,
MANASH PRATIM KALITA

WOMEN RELAY RACE :-2st
DRISTI BORAH, SNIGDHA BORUAH,
PRIYA BORO , DIKSHITA DAS

MUSICAL CHAIR 1st:-
SUFIAN BHUYAN

BEST ATHELETE MALE:-
ARNAB JOYTI KASHYAP

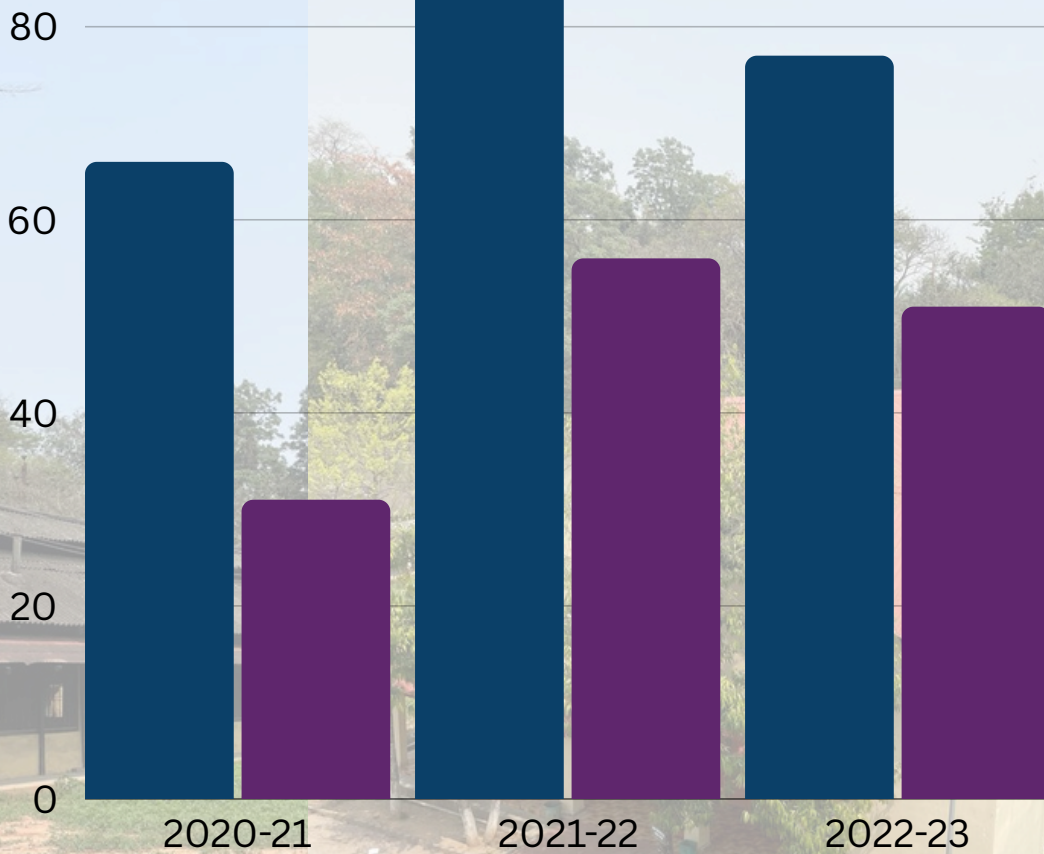
BEST ATHELETE FEMALE:-
DIKSHITA DAS



WHAT AFTER A DIPLOMA IN CIVIL ENGINEERING - PLACEMENT REPORT

■ Total no. students ■ No. of placements

100





ALUMINI SPEAKS

Attaining an engineering diploma opens up a multitude of opportunities for diploma holders. Some may opt to further their education by pursuing bachelor's or advanced degrees to refine their expertise. Others may embark on their professional journey by entering the workforce, securing entry-level positions or internships that commonly involve resolving technical challenges.

Entrepreneurship presents another path, offering opportunities to establish ventures or consultancy firms, particularly appealing to individuals aspiring to be self-employed.

Pursuing Further Education

Many individuals holding diplomas opt to progress their education through further studies. Transitioning to a bachelor's degree (BE/BTech, BArch) directly to 3rd semester in state colleges such as AEC, JEC, etc. and central colleges such as TU, CIT, NERIST, etc. through their respective lateral entrance exam or any 10+2 level examination such as NATA, CEE is a choice, enabling individuals to refine their technical skills and gain specialized knowledge. The transition from a diploma to a bachelor's degree is typically seamless, as many educational institutions facilitate credit transfers for prior coursework. This pathway proves particularly advantageous for individuals passionate about a specific engineering discipline and seeking to deepen their expertise.

Entering the Workforce

Many graduates holding engineering diplomas choose to enter the workforce immediately upon completing their studies. The practical skills acquired during a diploma program are readily transferable to various industries. Typical entry-level positions for these graduates encompass roles such as engineering technicians, junior engineers, drafters, and CAD operators. These positions provide valuable hands-on experience, allowing individuals to engage in actual projects under the mentorship of experienced professionals.

SONIA DAS
ex-student of Aei Civil
department



FORTHCOMING EVENTS

- **Civil department applied for the NBA accreditation and preparation is going for the expert team visit.**
- **Participation in Tejaswini Assam Ideathon 2024**
- **Exhibition of latest models of total station at Vivanta Taj, Guwahati Organized by Allterra & Trimble**
- **Attend Contemporary Prospects in Civil and Mechanical Engineering, organized by Assam down town University.**



Teachers of the department working on the submission of NBA Self assessment report(SAR)



NEWSLETTER TEAM

We are grateful for the opportunity make this newsletter and support the Civil Engineering Department. It is a privilege to be part of this project, our commitment is to provide our utmost best. Thank you for this wonderful opportunity given to us by our teachers.

Special thanks to editorial team:

Dhiman Deori
Sambhab Kashyap
Lavita Das

Partha Jyoti Kalita
Banasri Choudhury
Nikita Kashyap

For their contributions to the making of the Kaleidoscope.



NEWSLETTER TEAM 2023-24