

ASSAM
ENGINEERING
COLLEGE



AADHARSHILA

THE ANNUAL NEWSLETTER OF THE DEPARTMENT OF CIVIL ENGINEERING

আধাৰশিলা

DEPARTMENT OF CIVIL ENGINEERING

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EDITORIAL



Aadharshila Committee

The Civil Engineering Department (CED) of Assam Engineering College proudly presents the 14th issue of its annual newsletter, "AADHARSHILA", reflecting the department's commitment to academic excellence, innovation, and growth. Since its inception in 2013, the newsletter has documented and celebrated the achievements of faculty and students while showcasing key academic, research, and departmental activities.

This edition offers a concise overview of the department's progress and its role in shaping the future of civil engineering. We extend our sincere gratitude to all contributors whose efforts made "AADHARSHILA 2026" possible.

- **Editorial Committee**
Aadharshila 2026
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Assam Engineering College

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PRINCIPAL'S MESSAGE

It gives me immense pleasure to congratulate the Department of Civil Engineering, Assam Engineering College, on the auspicious release of the 14th edition of "AADHARSHILA". As the department's premier annual newsletter, this publication serves as a vital testament to the academic and diverse achievements of the department. I am confident that this edition will act as a cornerstone resource for our students, fostering a spirit of innovation. My best wishes go to the faculty and students as they continue to engineer solutions for the betterment of our society.

Dr. Bipul Talukdar
Principal (i/c)
Assam Engineering College



HoD's MESSAGE

The Civil Engineering Department is publishing its 14th edition of our annual newsletter, "AADHARSHILA" in this academic year as well. It gives me immense pleasure to present the 14th edition before you. The team behind this publication need to be lauded highly, for continuing their efforts in showcasing the activities and achievements of the Civil Engineering Department, primarily showcasing the achievements of our students and faculties. I am sure this periodical, which also serves as a platform of expression of both the students and the faculties, will keep you updated with the efforts, activities and achievements of the department. I wish and thank all the faculty members, students and committee members, and coordinators for the efforts put in to bring out the 14th edition of our annual newsletter, "AADHARSHILA".

Dr. Binu Sharma
Professor & Head, CED
Assam Engineering College



DEPARTMENT'S ACHIEVEMENTS

MoU BETWEEN BHRAHMAPUTRA BOARD AND CED, AEC

Memorandum of Understanding between Brahmaputra Board and CED, AEC for the preparation of a Detailed Project Report for Bank Protection work along the right bank of river Dharala/Singimari within Jari Dharala, Daribosh and Dhamaligachh area under Dinhata-I Block, Dinhata, Cooch Behar, West Bengal.



SHREE GAUTAM CONSTRUCTION PROVIDED EQUIPMENT ITEMS TO LABORATORY, CED

As part of academic–industry collaboration, **Shree Gautam Construction Company Limited, Guwahati–781001, Assam, generously donated several equipment items to various laboratories of the Department of Civil Engineering during the financial year 2025–26.** The Department is also profoundly grateful to **Dr. Binod Singhi, CTO of Shree Gautam Construction Company Limited, and an esteemed alumnus of Assam Engineering College, for his continued support and commitment to the institution.**

AEC SECURES EXTENDED NBA ACCREDITATION, INCLUDING CED

Assam Engineering College (AEC) has secured an extension of accreditation from the National Board of Accreditation (NBA) for five of its undergraduate engineering programmes that includes Civil Engineering, Electrical Engineering, Electronics and Telecommunication Engineering, Chemical Engineering, and Mechanical Engineering. The renewed accreditation will now remain valid until the academic year 2027–2028, i.e., up to June 30, 2028.

“The only thing that’s standing between you and your goal is the story you keep telling yourself as to why you can’t achieve it.”

– Dr. APJ Abdul Kalam

DEPARTMENT DIARIES

VISIT TO ADVANTAGE ASSAM 2.0

A group of faculty and students of 4th, 6th & 8th semester of the CED, AEC visited the Advantage Assam 2.0 on 26th Jan, 2025. All of them attended the discussion on 'Assam Roads, Railway and Riverine Infrastructure', in the presence of Dr. Himanta Biswa Sarma, Hon'ble Chief Minister of Assam, Shri Sarbananda Sonowal, Hon'ble Minister of Ports, Shipping & Waterways, Government of India, Shri Krishnendu Paul, Hon'ble Minister for Animal Husbandry and Veterinary Department, Fishery Department and Public Works Roads Department, Government of Assam and other dignitaries. A Special Address-video message was sent by Shri Nitin Gadkari, Hon'ble Minister for Road Transport and Highways, Government of India.



BUILDXTA 12.0, 2025

"Buildxta", the Bridge Making Competition was held on 26th Feb, 2025 under the banner of Udbhavanam 12.0 at the CED. Dr. Abinash Mahanta, Dr. Pulendra Dutta and Ms Rhitwika Barman coordinated the competition.

TOOTHPICK TOWER COMPETITION

The tower making competition "Toothpick Tower (Seismic)" was held on 27th Feb, 2025 under the banner of Udbhavanam 12.0 at the CED. The Faculty In Charges of the program were Dr. Bharati Medhi Das and Prof. Puspanjali Sonowal.



EXPERT TALK ON CONSTRUCTION CHALLENGES WITH HIGH GRADE CONCRETE

Dr. Diganta Sarma, an alumnus of CED, AEC, delivered a talk on "Construction Challenges with High-Grade Concrete" on 11th Mar, 2025. The event was held in the CED and coordinated by Prof. Bipul Talukdar.

NEW HoD OF CED

Dr. Binu Sharma, Professor of CED, AEC, took the charge as the Head of the Department of Civil Engineering, on 28th Mar 2025, in the presence of Dr. Jayanta Pathak, former HoD, CED, AEC and other faculty members.



DEPARTMENT DIARIES

RETIREMENT OF MR. JOGESH DAS

Mr. Jogesh Das, Scientific Assistant of the CED, AEC retired from his years long service to the Department, on 31st Mar, 2025.



TRAINING PROGRAMME ON PROJECT MANAGEMENT



A training session on "Project Management at Site using Primavera P6" was organised for the B.Tech 8th Semester Civil Engineering students on 4th April, 2025 in Room No. 2, AEC. The session was conducted by Er. Abhishek Borpujari.

ONE-WEEK WORKSHOP ON RCC BUILDING DESIGN USING STAAD PRO

A one-week workshop on "RCC Building Design Using STAAD Pro" was organised from 7th to 11th April, 2025 in Room No. 2, AEC. Mr. Debasish Panda from IIT Guwahati served as the resource person for the workshop.



EXPERT LECTURE ON EARTHQUAKE RISK

An expert lecture on "Components of Earthquake Risk" was delivered by Mr. Pratim Parash Kalita on 8th April, 2025 for the B.Tech 8th Semester students.

VISIT OF PROF. M. L. PARIDA

Prof. M.L. Parida, Director of CRRI and President of the Indian Roads Congress (IRC), visited the Civil Engineering Department.



WORLD ENVIRONMENT DAY CELEBRATION

World Environment Day was celebrated in the Department of Civil Engineering on 5th June, 2025.

BIS DRAFT MEETING

On 30th July, 2025 faculties of CED, AEC attended the BIS Draft on Manak Manthan at BIS, Ghy Branch Office.



DEPARTMENT DIARIES

AEC TEAM OF BIS STUDENT CHAPTER ATTENDS ONE-DAY WORKSHOP AT BIS OFFICE, NOIDA

The AEC team of the BIS Student Chapter attended a one-day workshop on 30th July, 2025 at the BIS Office, Noida, graced by Mr. Chandan Behl, Additional Director General, BIS. Mr. Behl interacted with the participants and shared valuable insights on standardization and quality practices. The workshop aimed to train the mentors of the BIS Student Chapter on effectively guiding and coordinating student activities while outlining the roles and responsibilities of both mentors and members, along with future initiatives under the chapter. Faculty members from the CED and other departments of AEC actively participated in the meeting and contributed their valuable suggestions. A comprehensive discussion was held between the faculty members and BIS officials regarding potential revisions in the Indian Standard (IS) Codes, and the event concluded with the felicitation of all participating faculty members, marking a productive and enriching collaboration between BIS and AEC.



PRINCIPAL'S BRIEF UP ON THE NATIONAL EDUCATION POLICY

On 4th August 2025, Dr. Bipul Talukdar, Principal, AEC, addressed the faculty and students of the department regarding the National Education Policy (NEP) 2020. In his comprehensive talk, he elaborated on the key curricular reforms, the vision for multidisciplinary education, and the roadmap for NEP's implementation at AEC. The insightful session provided clarity and direction for the department's academic future.

TEACHER'S DAY CELEBRATION

On 5th Sept, 2025, the CED celebrated Teachers' Day with sincerity and gratitude. The occasion highlighted the important role of teachers in guiding and inspiring students, and reflected the respect and appreciation that the department holds for its faculty members.



"Genius is one percent inspiration, ninety-nine percent perspiration."

— Thomas Alva Edison

DEPARTMENT DIARIES

INTERACTIVE SESSION WITH NATIONAL SKILL DEVELOPMENT CORPORATION MEMBERS ON SKILL DEVELOPMENT INITIATIVES

A meeting was held in the month of 11th Sept, 2025 with the members of the National Skill Development Corporation (NSDC) in the presence of Dr. Bipul Talukdar, Principal, AEC and faculties from CED as well various departments. The discussion focused on hands on training program for students, skill enhancement initiatives along with collaboration opportunities. The meeting aimed to strengthen the institution's role in promoting skill-based education and improving student employability. It served as a valuable platform for sharing insights and exploring future partnerships with NSDC. The meeting was co-ordinated by Dr. Pulendra Dutta.



VISIT TO BUILDING ARCHITECTURE INTERIORS CONSTRUCTION EXHIBITION

On 12th Sept, a team of faculties from the CED visited the Building Architecture Interiors Construction (BAIC) Exhibition held at the Maniram Dewan Trade Centre. The AEC team, including the Training and Placement Officer and senior faculty members, joined the Director of Technical Education, Assam, and their officials. The primary objective of the visit was to engage with exhibitors to scout for strategic opportunities, focusing on student placements, internship avenues, potential CSR funding, and future research collaborations. The team meticulously visited a total of 68 stalls, engaging directly with the representatives. The visit concluded with highly encouraging results, opening up several promising dialogues for future industry-academia partnerships that will directly benefit our students.



FACULTY MOBILITY PROGRAMME 2025

The CED successfully participated in a comprehensive, one-week Faculty Mobility Programme, initiated by the Directorate of Technical Education, beginning on 15th Sept, 2025. The programme was designed to facilitate an exchange of faculty members from Civil Engineering Departments across different government engineering colleges. Faculties from various institutions were deputed to AEC and were formally welcomed by the department and the Principal. The programme's primary aim was to foster knowledge exchange, strengthen inter-institutional bonds, and expose students to a broader spectrum of teaching methodologies, thereby elevating the standard for regional engineering education.



DEPARTMENT DIARIES

MENTAL HEALTH DAY CELEBRATION

On 10th Oct, 2025 a workshop on Mental Health Day was organised by CED, AEC at Room No. 2 for the B.Tech 3rd Semester students and M.Tech students. Mr. Krisanu Banikya from Art of Living was the speaker of the workshop. The event was co-ordinated by Dr. Triptimoni Borah and Dr. Malaya Chetia.



LECTURE ON APPLICATION OF AI IN CIVIL ENGINEERING

A lecture was delivered by Dr. Anirban Dutta, Speech Research & Solution Specialist on Application of AI in Civil Engineering. The event was conducted for B.Tech 5th Semesters students of CED, AEC on 11th Oct, 2025 and the event was co-ordinated by Mr. Rajdeep Paul.

LECTURE ON CAREER OPPORTUNITIES FOR CIVIL ENGINEERS

A lecture was delivered by Er. Manjil Barman on Career Opportunities for Civil Engineers on 16th Oct, 2025 at CED, AEC. The lecture was attended by B.Tech 5th & 7th Semester students.



WORKSHOP ON GIS

A workshop on Introduction to GIS, RS Application and Open Source was conducted for B.tech 7th Semester Students by CED, AEC on 17th Oct, 2025. Mrs. Mina Singha was the guest speaker for the day. The Event was co-ordinated by Dr. Triptimoni Borah.

EXPERT LECTURE BY BIS

On 10th Nov, 2025 an Expert Lecture on Standardization by BIS was organised for the B.Tech 1st Semester Students of CED, AEC.



IDEA MEET FOR CED

On 21st Nov, 2025 an Idea Meet was held for students of CED under Institute Innovation Council of AEC to develop the entrepreneurship environment among the students. The event was Co-ordinated by Dr. Santanu Pathak and Mr. Rajdeep Paul.

CLUB ACTIVITIES

Mukhaa Club, the Drama and Film Society of AEC, on 13th Aug, 2025 club introduction took place. On 19th Aug, 2025 a street play was displayed on the theme 'Say No to Ragging'. CED students Tanmoy Sarma and Pranavanu Prantu Hazarika of 5th Sem, Ayan Saikia and Himankan Choudhary of 3rd Sem acted in the street play. A 3 day drama workshop was organised by the club from 19th Aug, 2025 to 21st Aug, 2025. On 30th Aug, 2025 a stage drama named 'Bhed' was displayed in Freshmen Social. CED student Sagarika Nath, Himangsu Sarmah and Bishwajit Kalita of 1st Sem performed in the drama. A street play on theme 'A promise to Xihu' with collaboration with National Youth Climate Consortium was organised along with interactive sessions on 8th Oct, 2025. The Club also has future events on the line.



Drone Technology in Academia, outreach program held at ASTU on 11th Aug, 2025 organized by ISTE-AEC Student Chapter. Led by Jugalkishore Kalita and Sajid Farhan Hussain of 7th Sem, the event featured talks on drone tech applications and a live demo. Graced by ASTU's Vice Chancellor and faculty, it sparked enthusiasm among students.



Energython 2.0, an event organized & led by Rubul Azad, President of Energy Club AEC 2024-25 and a 6th Sem student of CED, under the banner of Udbhavanam-Pyrokinesis 2025, was conducted with great enthusiasm and success. The event witnessed active participation and innovative ideas from students, reflecting their passion for energy and sustainability. The dedicated efforts of the organizing team, participants, and esteemed judges contributed significantly to the overall success of the event.



A TRIBUTE TO LATE ZUBEEN GARG

অনন্ত সুৰৰ গুঞ্জন এটি

মেঘৰ বুকু ফালি মেঘালয়ৰ আকাশৰ পৰা, অসমৰ বুকুলৈ নামিছিল এক উজ্জ্বল নক্ষত্ৰ। পাহাৰৰ পৰা ডেয়াৰৰ বুকুলৈ বৈ আহিছিল এটা অনন্ত গুঞ্জৰিত সুৰৰ নিজৰা। অমানিশা সাৰে আছিল শেষবাৰৰ বাবে, সংগীতৰ পৃথিৱীলৈ নতুন পোহৰ আহিছিল "জোনাক কণ্ঠ"ৰ "অনামিকা"ৰে। অসমৰ আয়ুসৰেখা বৰলুইতৰ দৰেই তোমাৰ বিশাল বিস্তৃতি হৈ "লুইত কণ্ঠ"। অসমীৰ চৰণত ঢালিলা স্বৰ্গীয় সুৰৰ অৰ্ঘ্য।

তোমাৰ কণ্ঠৰেই আৰম্ভ পুৱাৰ হৰিনাম, নিশাৰ শোৱাপাটিটো মাথোঁ তোমাৰেই গান। বহাগীজনীও সাৰ পালে তোমাৰ কণ্ঠত, বিহুতলীলৈ দৌৰি আহিল জানমণি, অঞ্জনা। উৰুকাৰ উৎসাহ চৰিল, মেজিৰ উতাপ বাঢ়িল, কঙালীৰ চাকিগছিও উজ্জ্বলকৈ জ্বলিল। তুমি জানো কেৱল সুৰেই আছিল গন্ডি? আৰ্তজনৰ বাবে এখন আশ্বাসৰ হাত তুমি, কলমেৰে সামৰিব নোৱাৰা এটা সন্ধ্যা তুমি। কুটিল ৰাজনীতিৰ ৰাজহাড় চিধা কৰাজনো তুমিয়েই নহয় জানো তীক্ষ্ণ তৰোৱাল- জুবিন?



আৰু সেই কাল অমানিশাৰ দিনা...
ৰৈ ৰৈ বিনাইছিল অসমৰ দিন-নিশা, জনতাই। কেনেকৈ অসমৰ মুকুতা অচিন সমুদ্ৰত হেৰাই? কিন্তু তুমি জানো স্তব্ধ হৈ গৈছিল "হাৰ্টথ্ৰব"? যাত্ৰা কৰিছিল সেই অচিন সমুদ্ৰৰ পৰা তোমাৰ অতিকৈ আপোন জনসমুদ্ৰৰ বুকুলৈ। শেষ শয়নস্থলীও কৰি গ'লা মহামিলনৰ তীৰ্থ তুমিয়েই নহয় জানো সেইজন গন্ধৰ্বপুত্ৰ? কেছিল তুমি, "সুখী হৈয়ে ৰোৱা মই অবিহনে" পাৰিছে নে অসমে? পাৰিবনে তুমি অবিহনে? তুমি নথকাৰ অনুভৱ এতিয়াই হৈছে অসমৰ, চকু মেলা, সাৰ পোৱা হৈ গানৰ নক্ষত্ৰ উভতি আহা কোনো এটা "মায়াবিনী ৰাতি" জহি খহি যাবলৈ ধৰা সংগীতৰ পঁজা এটা, সুৰৰ ডোলেৰে আকৌ বান্ধিবলৈ আটি আটি।

অসমৰ হাৰ্টথ্ৰব জুবিন গাৰ্গৰ স্মৃতিত তেওঁলৈ সমৰ্পিত।

ধনঞ্জয় দাস

**অষ্টম ষাণ্মাসিক, চিভিল ইঞ্জিনিয়াৰিং বিভাগ
অসম অভিযান্ত্ৰিক মহাবিদ্যালয়।**

Mon Jai!

Zubeen Garg, a forever heartthrob he will be, too early for a goodbye indeed. A voice that will remain within us, a God-gifted voice in the true sense. From single albums to VCDs from bihu to movies he has been the backbone, the legend.

"Mon Jai, Mur u Mon Jai....." dialogues from Zubeen's early filmography 'Mon Jai' has been living among us, in fact his presence in a stage, scene, cameo, video or screen makes it special for his people.

Keeping other things aside, 'Mon Jai' is always special for us, for AECians. The 2008 released film is based on youth problems and an image of back-then society. Some of its shooting locations and scenes are living on our campus, in our AEC. Mon Jai Point, the bus stand in front of Hostel 8 field and Swahid bedi is one of the core memories of Zubeen's Mon Jai. College quarters, the college campus and its natural beauty was all in Mon Jai. The big wall painting of Zubeen in our market shows, its deep connection and a feeling of



belonging with AEC. We AECians love Zubeen, as Zubeen does too. His presence from time to time in AEC, his love for our AEC can be seen when he came driving his car himself, after a shooting in February 2011, on the night of Pyrokinesis. He said, "I love your College, Moi eyat Mon Jai Shooting korisu and I love you all, aru hekarone moi ahisu". An early memory of mine, when I first stepped to AEC, I was as excited as others to see the Mon Jai Point, where Zubeen often sits for his love interest in Mon Jai.

Every generation living today has somewhere listened, related and loved Zubeen. He ruled every corner of his Assam, his people. His life, in a short span, taught, inspired and alive many and many more in future he shall. Like the whole Assam, in AEC Zubeen Garg will live forever. An immortal soul he shall be. Perhaps too early for a goodbye- Rest in peace heartthrob!

**Subhankar Buragohain
8th Semester, CED, AEC.**

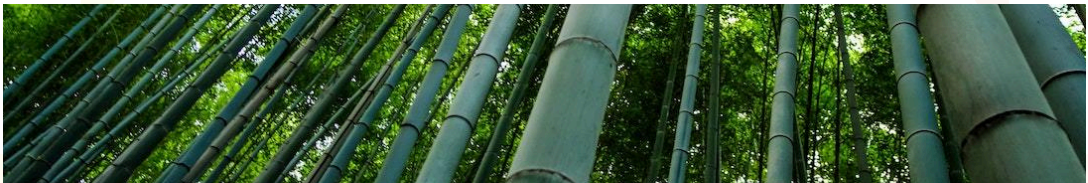
ARTICLE

STRATEGIC OVERVIEW OF ABEPL AND BAMBOO ECOSYSTEM DEVELOPMENT IN NORTHEAST INDIA

Himangshu Saikia
GM I/C (IHP and Project Dabidubi), Formerly CEO of ABEPL
AEC, 1987 - 1992 Batch, Civil Engineering



Assam Bio Ethanol Private Limited (ABEPL), a joint venture of Numaligarh Refinery Limited (NRL) with Fortum and Chempolis of Finland, has commissioned the world's first bamboo-based 2G bio-refinery at Numaligarh, Assam. The refinery was inaugurated by the Hon'ble Prime Minister on 14th September 2025, marking a milestone of national importance for Northeast India and a significant advancement in India's energy security framework.



BAMBOO ECOSYSTEM & SUSTAINABILITY

Northeast India possesses a bamboo resource base of 55,725 sq. km (178.6 million MT). ABEPL's annual feedstock requirement of 0.5 million MT is less than 0.5% of this stock, ensuring sustainability without ecological stress. At present, only 15–20% of bamboo enters formal markets, with ~365,000 MT annually flowing to pulp & paper, incense stick, furniture and bioenergy industries. It is hoped that structured commercialisation through ABEPL will unlock significant untapped value and stabilise farmer incomes.

PLANT HIGHLIGHTS & VALORISATION

The refinery has a processing capacity of 500 KTPA of green bamboo and will annually produce:

- 50 KTPA ethanol, blended with petrol to reduce crude imports (~230 crores rupees savings per year).
- 19,000 TPA furfural and 11,000 TPA acetic acid, both serving as import substitutes and base feedstock for downstream industries such as Pharma and other allied Chemical industries.
- Bio-coal, activated carbon, 25 MW green electricity, and food-grade CO₂, ensuring near-zero waste and carbon-neutral operations.

BAMBOO SOURCING & SUPPLY CHAIN

The feedstock supply chain covers Assam, Arunachal Pradesh, Meghalaya, and Nagaland within a 300 km radius. It integrates:

- **Farmers & Farmer Groups:** 4,250+ farmers are registered with 8.3 lakh MT of bamboo registered. Supported by 25 Farmer Producer Organisations (FPOs) and cooperatives. During the plant commissioning phase in September 2025, more than 100 farmers supplied bamboo, receiving direct payments exceeding ₹1 crore.
- **Local Level Entrepreneurs (LLEs):** 42 entrepreneurs envisaged; 24 identified with 8 under formal agreements. Four LLE sites are commissioned.
- **Harvesting-cum-Interim Transporters (HITs) & Main Transporters:** Facilitating sustainable bamboo harvesting and ensuring the timely transportation of bamboo and chips.

DIGITAL SUPPLY CHAIN INFRASTRUCTURE

ABEPL has implemented a state-of-the-art, cloud-based digital platform, developed in collaboration with Tata Consultancy Services (TCS), to manage its supply chain. Key features include:

- **Geo-Tagging and GPS Tracking:** Farmer profiles and bamboo plots are geo-tagged, with real-time tracking of bamboo movement to ensure trackability and traceability.
- **Automated Payments:** Direct benefit to farmers insured by transparent and timely payments and other stakeholders via linked bank accounts, fostering trust and accountability.
- **Demand Forecasting and Inventory Management:** Digital dashboards provide real-time insights into inventory levels, demand projections, and logistics optimization.
- **Mobile and Web Accessibility:** The digital platform is mobile application based is user-friendly and enable stakeholders to access critical information on-demand.

This digital infrastructure enhances supply chain visibility, minimizes disruptions, and supports data-driven decision-making. It is fully operational, ensuring seamless coordination across all tiers of the supply chain.

LONG-TERM FEEDSTOCK SECURITY & MOUS

ABEPL's sustainability initiatives go beyond immediate procurement. In collaboration with Chroma Biotech, Dibrugarh, under a formal MoU, a tissue culture laboratory has been established to produce up to 80,000 bamboo saplings per month. To date, over 150,000 saplings have been dispatched for secondary hardening. Additionally, three nurseries spanning 15 hectares are being developed in partnership with NRL and the Govt. of Assam Forest Department, with a target of producing 60 lakh saplings over the next three years.



SUSTAINABLE HARVESTING

Harvesting protocols restrict extraction to one-third of culms annually, ensuring perpetual regeneration and ecological balance.

ECONOMIC, SOCIAL, AND ENVIRONMENTAL IMPACT

- **Economic:** ~₹200 crore potential injection annually into the rural economy through bamboo procurement, logistics, and chipping.
- **Social:** Benefits to ~50,000 households; 3,500+ jobs created; strong emphasis on women's participation, farmer training, and entrepreneurship.
- **Environmental:** 12,500 hectares plantations sequestering ~260 KTPA CO₂; 32 KTPA captured additionally during fermentation; potential carbon-neutral operations.

STRATEGIC SIGNIFICANCE

- Establishes Northeast India as a national hub of the bio-economy, linking bamboo to high-value industries.
- Creates a formal, sustainable bamboo market, enhancing farmer confidence and rural income.
- Demonstrates co-existence with complementary industries (pulp & paper, crafts, incense sticks, furniture).
- Strengthens energy security by reducing crude imports and contributing to national ethanol blending targets.

KEY TAKEAWAYS FOR MANAGEMENT

- **Sustainability Assured:** Requirement <0.5% of regional bamboo stock.
- **Inclusive Growth:** Farmers, entrepreneurs, and transporters integrated through a digital, transparent system.
- **Economic Multiplier:** ~₹200 crore annual economic benefit; 30,000+ families support.
- **Environmental Leadership:** Carbon-neutral operations with plantations and valorisation.
- **National Benchmark:** Flagship PM-JI-VAN project aligned with India's renewable energy goals.
- **Strategic Catalyst:** Positions Northeast India as a leading contributor to the bio-economy and circular economy.

ALUMNI ACHIEVEMENTS

Dr. Preetish Kakoty, an alumnus of Civil Engineering Department, 2011-2015 batch has been awarded a €260,000 Marie Curie Postdoctoral Fellowship for his project, 'RE-EnForce-Resilience Enhancement through Multi-Hazard Recovery Analysis of Earthquake and Flood-Affected Infrastructure', with a perfect score of 100 out of 100. He shall also be joining as the fourth Marie Curie Fellow for the coming four years.



Dravid Pratim Gogoi, an alumnus of Civil Engineering Department, 2014-2018 batch has been honored with the Assam Gaurav Award 2024 under the Assam Civilian Awards, one of the state's highest civilian accolades.

Er. Sankar Chakraborty, an alumnus of Civil Engineering Department, 1966-71 batch has been working as a Structural Engineer in the USA for the last 40 years. Immediately after graduation he was working as Lecturer in our department for six months. He visited the CED on 5th Dec, 2025 along with his family.



PUBLICATIONS

1. Ahmed, M.I., Borah, S., Pathak, J. (2025). AI Application in Geotechnical Engineering Using Artificial Neural Network for Seismic Data Analysis in Northeast India. In: Dixit, M.S., Jaiswal, S.S., Shermale, Y., Singh, A.P., Maji, V.B. (eds) Proceedings of the Indian Geotechnical Conference (IGC 2024), Vol. 8. IGC 2024. Lecture Notes in Civil Engineering, vol 704. Springer, Singapore. https://doi.org/10.1007/978-981-96-7783-2_5.
2. Barman, R., Bora, B., Sarma, T., Talukdar, B. (2025). Experimental Study on Porcupine Structures to Enhance Sediment Accumulation. International Journal of Environmental Sciences, Vol. 11, No. 12s, 1-13. (ISSN: 2229-7359) <https://theaspd.com/index.php>.
3. Barman, R., Talukdar, B. (2025). Experimental Investigation of Deltoid Structures for Improved Sediment Deposition. ISH Journal of Hydraulic Engineering, 1-13. (ISSN: 0971-5010) <https://doi.org/10.1080/09715010.2025.2514578>.
4. Barman, R., Talukdar, B. (2024). Innovative Strategies for Riverbank Stabilization and Erosion Prevention. African Journal of Biomedical Research, Vol. 27(6s) (Engineering and Technology), 286-293. (ISSN: 1119-5096) <https://doi.org/10.53555/AJBR.v27i6S.6110>.
5. Bhuyan, K., Borah, T. (2025). Spatial Distribution of Arsenic Contamination Using IDW Interpolation Technique in Darrang and Nagaon Districts of Assam Using ArcGIS. 5th International Conference on Waste Management – RECYCLE 2025, IIT Guwahati.
6. Chakraborty, T., Borah, T. (2025). Ground Water Assessment of Guwahati Using ArcGIS” Proceeding of the Indian Geotechnical Conference 2024. Vol. 7, pp 319-334.
7. Das, B., Saikia, S., Dutta, P. (2025). Sustainable Construction Practices: a Applicability of Recycled Concrete Aggregates. International Conference on Sustainable Practices and Materials in Civil Engineering (SPMCE 2026).
8. Das, J.K., Sharma, B., Bhuyan, R., Neog, P. (2025). Compaction Characteristics and Strength Characteristics of Statically and Dynamically Compacted Fine-Grained Soil. Volume 9: Geotechnical and Geophysical Investigation, Geomaterial Characterization, Site Investigation, and Exploration (Vol. 9, p. 3-13). Springer Nature. https://doi.org/10.1007/978-981-96-7799-3_1.
9. Das, J.K., Sharma, B. (2025). Influence of Compaction Methods on Strength, Microstructure, and Suction Characteristics of Fine-grained Soils. Geomechanics and Geoengineering, 1-19. Taylor and Francis Journal, <https://doi.org/10.1080/17486025.2025.2552835>.
10. Deb, R., Chetia, M. (2025). Finite Element Analysis of Square, Rectangular and Circular Footings Resting on Hill-Slopes. Paper accepted for the Indian Geotechnical Conference 2025, National Conference on Geotechnical Practices for Innovations and Sustainability Organized by Jalandhar Chapter and Dr B R Ambedkar National Institute of Technology Jalandhar, India.
11. Deka, Dipankar, Boruah, N., Dutta, P. (2025). ‘Multi-criteria analysis for Flood vulnerability identifications across Kushi River Basin of North-east India’. International conference on “River Health: Assessment to Restoration (RHAR 2025), held at IIT (BHU) Varanasi, India, during October 30 – November 01, 2025.
12. Dutta, P., Phukan, A., Boruah, N., Deka, Dipankar (2025). ‘Evaluating the Disang River Health at Sibsagar, Assam, India’. International conference on “River Health: Assessment to Restoration (RHAR 2025), held at IIT (BHU) Varanasi, India, during October 30 – November 01, 2025.

PUBLICATIONS

13. Dutta, P., Phukan, A. (2025). 'Spatio-Temporal Evaluations for Water Qualities of Disang River of the Greater Sibsagar, Assam'. 30th International Conference on Hydraulics, Water Resources and Coastal Engineering (HYDRO-2025) held at NIT Rourkela, Odisha, India. during 18-20 December' 2025
14. Gayan, K., Borah, T. (2025). Comparative Assessment of Water Quality using Multivariate Statistical Analysis: A Case Study of Tirap OCP, Makum Coalfield, Tinsukia, Assam. 5th International Conference on Waste Management – RECYCLE 2025, IIT Guwahati.
15. Gogoi, P., Sarma, B. (2025). Optimisation of Longa Irrigation Project, International Journal of Science and Research (IJSR) ISSN: 2319-7064; www.ijsr.net; Paper ID: SR25402121733; Volume 14 Issue 4, April 2025, pg 281-285
16. Gogoi, S., Borah, S. (2025). Study of Shear Strength Characteristics of Chemically Treated Sandy Soil Using the Direct Shear Test. In: Dixit, M.S., Jaiswal, S.S., Shermale, Y., Satyam, N., Singh, A.P. (eds) Proceedings of the Indian Geotechnical Conference 2024, Volume 6. IGC 2024. Lecture Notes in Civil Engineering, vol 702. Springer, Singapore. https://doi.org/10.1007/978-981-96-7779-5_10.
17. Hazarika, S., Sharma, B., Medhi, B., Das, P. (2025). Study of Swelling, Compressibility and Permeability Characteristics. Volume 9: Geotechnical and Geophysical Investigation, Geomaterial Characterization, Site Investigation, and Exploration, Vol. 9, p. 215. Springer Nature. https://doi.org/10.1007/978-981-96-7799-3_17.
18. Kashyap, S., Sarma, B. (2025). 1) Determination of Ground Water Quality Index and Mapping using GIS Techniques for South Guwahati, Kamrup Metropolitan, Assam, India. International Journal of Engineering and Techniques (IJET), 11(6). <https://doi.org/10.5281/zenodo.18068146>.
19. Patowary, B.N., Nath, U.K. (2025). Study of Piled Raft Foundation on Layered Soil, Lecture Notes in Civil Engineering (LNCE, Volume-538), Springer Journal, Proceedings of the Indian Geotechnical Conference 2022 Vol. 10, Pages 247-263.
20. Pegu, S., Chetia, M., Baruah, U.K. (2025). Effect of Initial Static Stresses Induced by Structures on Liquefaction of Soils. In: Dixit, M.S., Jaiswal, S.S., Satyam, N., Singh, A.P., Maji, V.B. (eds) Proceedings of the Indian Geotechnical Conference 2024, Vol 9. Lecture Notes in Civil Engineering, Vol 705. Springer, Singapore. https://doi.org/10.1007/978-981-96-7799-3_21, 2025, pp 269-276.
21. Sharma, C., Borah, S., Pathak, J., Deka, S. (2025). Estimation of Peak Ground Acceleration for the Indian Himalayan Range Using Artificial Neural Network and Regression Analysis. In: Dixit, M.S., Jaiswal, S.S., Shermale, Y., Singh, A.P., Maji, V.B. (eds) Proceedings of the Indian Geotechnical Conference 2024, Vol 8. IGC 2024. Lecture Notes in Civil Engineering, Vol 704. Springer, Singapore. https://doi.org/10.1007/978-981-96-7783-2_3.
22. Singh, D.N., Chetia, M. (2025). Environmental Geomechanics: The Ecstasy Ahead. In: Koda, E., Vaverková, M.D., Reddy, K.R., Agnihotri, A.K. (eds) Emerging Trends in Sustainable Geotechnics. Lecture Notes in Civil Engineering, Vol 584. Springer, Singapore. https://doi.org/10.1007/978-981-96-2714-1_5.
23. Thakuria, H., Borah, S., Pathak, J., Deka, S. (2025). Site Response Analysis for North-Eastern and Western Himalayan Region of India. In: Dixit, M.S., Jaiswal, S.S., Shermale, Y., Satyam, N., Maji, V.B. (eds) Proceedings of the Indian Geotechnical Conference 2024, Volume 10. Lecture Notes in Civil Engineering, Vol 706. Springer, Singapore. https://doi.org/10.1007/978-981-96-7791-7_6.

FACULTY ACTIVITIES

DR. BIBHASH SARMA

- Delivered a lecture on “River Bank Erosion Mechanism and Management Measures” as a part of the 5-day Training Workshop on “Flood Management”, organised by the North Eastern Hydraulic & Allied Research Institute (NEHARI), Brahmaputra Board in association with National Water Academy (NWA) on 24th May, 2025.
- Attended the 20th Regional Co-Ordination Committee (RCC) meeting of the National Institute of Hydrology – North Eastern Regional Centre, Govt. of India. Guwahati on 6th Feb, 2025 and evaluated their completed and ongoing projects.
- Performed as Coordinator of PG Admission Committee 2025 for admission into the M.Tech courses at AEC for the session 2025-26.
- Visited Barak Valley region as a member of the Technical Advisory Committee, Water Resources Department, Govt of Assam on 8th and 9th Nov, 2025 to analyze flood and erosion problem in the area and to suggest remedial measures.
- Acted as a member of the Interview Panel for the selection of the Deputy General Manager (Technical) in North Eastern Handicrafts and Handloom Development Corporation Limited (A Govt. of India Enterprise), Guwahati on 6th Nov, 2025.
- As a part of the “Bridging Institutes, Building Excellence in Civil Engineering”- a Faculty Mobility Program, Visited Barak Valley Engineering College, Sribhumi for a week from 15th to 20th Sept, 2025 and took part in lecture delivery, career counseling, interactive sessions, real life problem discussion, mentoring and motivating students.
- Acted as Principal Investigator for the preparation of a “Detailed Project Report (DPR) for Bank Protection work along the right bank of river Dharala/Singimari within JariDharala, Daribosh and Dhamaligachh area under Dinhat-I Block, P. S. Dinhat Dist. Cooch Behar (W.B)” under the MoU signed with Brahmaputra Board on 6th Oct, 2025.

DR. BINU SHARMA

- Delivered an Expert talk as a resource person on the One Week Faculty Development Program (FDP) on “Sustainable Infrastructure Development”, held from 26th May to 30th May 2025 at NSUT West Campus, Jaffarpur, New Delhi.
- Evaluated the PhD thesis of Mr. Anup Kaushik Sharma from Civil Engineering Department, Tezpur University as an external examiner.

FACULTY ACTIVITIES

DR. MALAYA CHETIA

- Became Member of Rivers of the World Foundation, Inc. in May, 2025, www.rowfoundation.org.
- Recognized as “NPTEL Star – Domain Scholar” by NPTEL, SWAYAM-NPTEL Domain Certification in “Faculty Domain – Fundamental” in Dec, 2025.
- Awarded the Post Graduate Certificate in “Sustainable Energy Systems: A Data-driven Approach” by IIT Guwahati under AICTE QIP PG Certificate Programme 2025.
- Completed ATAL FDPs on:
 - “Navigating Climate Variability and Impacts for Effective Water Management, Disaster Preparedness, Resilience and Mitigation” at Bharati Vidyapeeth’s College of Engineering for Women from 28th Jan to 3rd Feb, 2025.
 - “Application of Geotechnical Engineering for the Development of Sustainable and Resilient Infrastructure” at C.V. Raman Global University from 10th to 15th Feb, 2025. “Real Time Applications of AI & ML in Disaster Management & Resilient Infrastructure” at Bajaj Institute of Technology from 17th to 22nd Feb, 2025.
 - Completed a one-week FDP on “AI Concepts and Practices for Civil Engineers” organised by National Institute of Technical Teachers’ Training and Research, Chandigarh from 13th to 17th Oct, 2025.
- NPTEL Courses Completed:
 - Completed a one-week FDP / STTP on “Research and Publication Ethics” organised by National Institute of Technical Teachers’ Training and Research, Kolkata from 5th to 9th May, 2025.
 - Completed a half-week FDP on “Python for Data Science”, 4 Weeks Course offered by NPTEL AICTE, during JaCompleted a half-week FDP on “Outcome Based Pedagogic Principles for Effective Teaching”, 4 weeks course offered by NPTEL-AICTE, during Feb-Mar 2025.
 - Completed a half-week FDP on “Towards an Ethical Digital Society: From Theory to Practice”, 4 weeks course offered by NPTEL-AICTE, during Feb-Mar 2025.
 - Completed a half-week FDP on “Making Learning Engaging through Interactive Game”, 4 weeks course offered by NPTEL-AICTE, during Jul-Aug 2025.
 - Completed a one-week FDP on “Data Science for Engineers”, 8 weeks course offered by NPTEL AICTE, during Jul-Sep 2025.

FACULTY ACTIVITIES

DR. MALAYA CHETIA

- Completed a one and half-week FDP on “The Joy of Computing using Python”, 12 weeks Course offered by NPTEL-AICTE, during Jul-Oct 2025.
- Completed a one-week Faculty Mobility Programme for the Civil Engineering Departments of State Engineering Colleges on “Bridging Institutions, Building Excellence in Civil Engineering” in Sept 2025 at Bineswar Brahma Engineering College, Kokrajhar, organised by the Directorate of Technical Education, Govt. of Assam.

DR. PULENDRA DUTTA

- Appointed as Coordinator for Adjunct Faculty in CED, AEC on 15th, Feb, 2025.
- Performed invigilation duty for an Exam conducted by the Gauhati High Court on 16th, Feb, 2025.
- Performed the duty as Faculty Incharge in events of PYRO 2025, AEC from 26th to 29th, Feb, 2025.
- Nominated as Expert Committee Member at Brahmaputra Board, Ministry of Jal Shakti on 22nd, Feb, 2025.
- Attended a FDP organized by the National Institute of Technology Patna from 17th to 28th Feb, 2025.
- Accepted a paper in the international conference “HYDRO 2025”.
- Accepted two nos of papers in the international conference on “River Health”.
- Accepted a paper in the International Conference “SPMCE 2026”.
- Reviewed a journal paper in “Journal of Theoretical & Applied Climatology”, published by Springer (August 2025).
- Coordinated a programme on “India Skill Assam”, under Assam Skill Development Mission (ASDM), at AEC, Jalukbari, Guwahati-13.
- Selected as Coordinator, ARIIA, under Institute Innovation Council, AEC.

FACULTY ACTIVITIES

DR. SASANKA BORAH

Completed Short Term Courses on:

- Practical Approaches to Soil Improvement and Sustainable Geotechnical Solutions” During September 15-19, 2025 (Online mode) organized by the Department of Civil Engineering, Dr. B.R. Ambedkar National Institute of Technology, Jalandhar, Punjab, India, GIAN Course under Ministry of Education, India.
- AICTE Recognized FDP on Preparing Students for Placements and Higher Studies Conducted by Curriculum Development Centre Department from 10/11/2025 to 14/11/2025 (One Week) at Assam Engineering College, Jalukbari, Guwahati, Assam by National Institute of Technical Teachers Training and Research, Chandigarh.

DR. TRIPTIMONI BORAH

- Became Member of Rivers of the World Foundation, Inc. in May, 2025, www.rowfoundation.org.
- FDP Completed:
 - Completed a one-week FDP on “Approaches in Research Methodology” organized by Civil Engineering Department of Dr. V.P.S.S.M.'s Vasantodada Patil Institute of Technology from 17.02.2025 to 22.02.2025.
 - Completed a one-week FDP on “AI & ML Smart and Sustainable Solutions in Civil Engineering” organized by Sasi Institute of Technology and Engineering Tadepalligudem, AP in association with IGC Tadepalligudem chapter from 18/03/2025 to 22/03/2025.
 - Completed AICTE Recognized FDP “Sustainable Energy Technologies” Conducted by Electrical Engineering Department from 02/12/2025 to 05/12/2025 at Assam Engineering College, Guwahati, Assam.
- Completed a one-week Faculty Mobility Programme for the Civil Engineering Departments of State Engineering Colleges on “Bridging Institutions, Building Excellence in Civil Engineering” in Sept 2025 at Bineswar Brahma Engineering College, Kokrajhar, organised by the Directorate of Technical Education, Govt. of Assam.

STUDENTS ACTIVITIES & ACHIEVEMENTS

Abhispa Dutta, Bhargab Narayan Nath & Kalpajit Phukan, B.Tech 5th Semester

- Elected as the Training and Placement Coordinators of 2026 batch from the CED.

Anoushka Choudhary, B.Tech 7th Semester

In the 20th All Assam State Shooting Championship held at Guwahati Sports Shooting Range, 4th APBn Complex, Kahilipara, Guwahati from 7th to 10th August, 2025 won:

- Silver in 50m rifle three position (nr) championship junior women.
- Silver in 50m rifle three position (nr) championship junior women.

Bhargabjyoti Kakati, B.Tech 3rd Semester

- Successfully participated in the National Students Paryavaran Competition (NSPC)2025 and was awarded a certificate of achievement.

Bishmita Das, B.Tech 6th Semester

- Won the title of Miss Venus during the Pyrokinesis on 26th Feb, 2025.

Chayanika Kalita, B.Tech 4th Semester

- Secured 1st position in Buildxtra 2025, held during Pyrokinesis on 26th Feb 2025.

Deepsikha Barman, B.Tech 4th Semester

- Secured 1st position in Buildxtra 2025, held during Pyrokinesis on 26th Feb 2025.
- Secured 2nd position in Toothpick Tower 2025, held during Pyrokinesis on 26th Feb 2025.

Dhananjay Das , B.Tech 7th Semester

- Secured 2nd position in the state level microtale writing competition "Alpote Ashim" organised by AEC Literary society.

Dhurba Jouti Kalita, B.Tech 6th Semester

- Selected to undergo an internship at the University of Exeter, United Kingdom in the month of Apr, 2025 under 'The Chief Minister's Green Fellowship Programme'.

Himasree Hazarika, B.Tech 4th Semester

- Secured 1st position in Buildxtra 2025, held during Pyrokinesis on 26th Feb 2025.

STUDENTS ACTIVITIES & ACHIEVEMENTS

Hrishikesh Deka, B.Tech 5th Semester

- Attended the IEC General Meeting 2025 Exhibition organized by BIS, gaining valuable exposure to international standards and industry practices.
- Secured 1st Runner-Up in the Seismic Tower event at Tech Axom 2025
- Achieved 1st Runner-Up in the CADventure (AutoCAD) competition, showcasing strong structural design and CAD skills.

Jugalkishore Kalita, B.Tech 6th Semester

- Lead a team during AEROKRAFT, the RC Plane maneuvering competition held under the technical fest TECHNOVUS at Jorhat Engineering College and secured Runner-up position on 30th March, 2025.
- Organised ERA BATOR XUR during Pyrokinesis 2025.

Javed Hussain Laskar, B.Tech 5th Semester

- Secured 1st Runner-up in the Seismic Tower challenge at Tech Axom 2025.
- Achieved 1st Runner-up in the CADventure AutoCAD competition, reflecting practical application of civil engineering concepts.

Kaustav Kishore Baruah, B.Tech 6th Semester

- Selected to undergo an internship at the University of Exeter, United Kingdom in the month of April, 2025 under Chief Minister's Green Fellowship Programme 2025.

Kjgyanam, B.Tech 3rd Semester

- Won 1st position in pitching competition at AEC pitching 2025, TISS pitching 2025, GCC pitching 2025, Dibrugarh University pitching 2025.

Maidang Basumatary, B.Tech 7th Semester

- Selected for MTech at IIT Gandhinagar under the MTech Early Admit Program.

Manash Pratim Deka, B.Tech 6th Semester

- Organised ERA BATOR XUR during Pyrokinesis 2025.
- Secured Runner-up position during AEROKRAFT on 30th March, 2025.

Pranavanu Prantu Hazarika, B.Tech 5th Semester

Won

- 1st position in the Poet Hiren Bhattacharyya Memorial All Assam Poem Recitation (Cotton University).
- 1st position in AEC College Week Debate.
- 1st position in Jun Deka Memorial All Assam Poem Recitation (Nalbari).
- 3rd Best Speaker at Devil's Advocate (Tech Axom).
- 3rd Best Team in the All Assam Inter-College Debate Competition organized by Kharupetia College in 2025.

STUDENTS ACTIVITIES & ACHIEVEMENTS

Priyo Jyoti Brahma, B.Tech 4th Semester

- Secured 1st position in Buildxtra 2025, held during Pyrokinesis on 26th February 2025.
- Secured 2nd position in Toothpick Tower 2025, held during Pyrokinesis on 26th February 2025.

Sagar Gautam Das, B.Tech 5th Semester

- Bagged 2 gold medals, 2 silver medals and 1 bronze medal at the 5th Kamrup District Karate Championship 2025 under Assam Olympic Association that was held at Changsari. He has brought great pride to Assam Engineering College through his outstanding performance and dedication to martial arts.

Sweta Hazarika, B.Tech 3rd Semester

- Clinched Gold and a Silver medal and Won the Best of the Best and received a cash prize of ₹5000.
- Honoured as the STAR PLAYER OF ASSAM DEO HAH ALL INDIA KARATE CHAMPIONSHIP 2025 held at Karmabir Nabin Chandra Bordoloi AC indoor stadium.
- Clinched 7 Gold Medals and 1 Silver Medal at the Zonal and Assam State Karate Championship 2025 held at Ganesh Mandir Indoor Stadium, Khanapara, Guwahati during 27-28th Dec 2025.
 1. Zonal Kata U-21 Gold
 2. Zonal Kumite U-21 Gold
 3. State Kata U-21 Gold
 4. State kumite U-21 Gold
 5. Zonal kata 18+ Gold
 6. Zonal Kumite 18+ Gold
 7. State Kata 18+ Gold
 8. State Kumite 18+ Silver
- Clinched Bronze Medal in All India Inter University Karate Championship 2024-25 held at Maharshi Dayanand University Rohtak, Haryana during 18-22 Jan 2025 and also selected for Khelo India University Games. She is the 1st student to achieve a medal for ASTU (AEC) in University Games till date.

Soonmee Deka, B.Tech 8th Semester

- Completed the NPTEL online course on 'Bridge Engineering' during July-Oct, 2025.

Tania Hassan Choudhary, B.Tech 8th Semester

- Completed the NPTEL online course on 'Geotechnical Engineering-1' during Jan-Apr, 2025.

STUDENTS ACTIVITIES & ACHIEVEMENTS

Dipankar Deka, M.Tech

- Delivered a presentation titled "Evaluating the Disang River Health at Sibsagar, Assam, India" at the 4th International Conference on River Health: Assessment to Restoration (RHAR 2025), organised by the Department of Civil Engineering, IIT (BHU) Varanasi during 30th January 2025.
- The presentation focused on evaluating river health parameters to support sustainable river management and restoration efforts.

Himanjali Bharali, M.Tech

- Presented a paper at the Indian Geotechnical Conference on Geotechnical Practices for Innovations and Sustainability (IGC 2025), held during 18–20 Dec 2025 at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar.

Jayanta Kumar Das, M.Tech

- Presented two research papers at the Indian Geotechnical Conference on Geotechnical Practices for Innovations and Sustainability (IGC 2025), held during 18–20 Dec 2025 at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar.

Kaustav Bhuyan, M.Tech

- Presented a research paper titled "Spatial Distribution of Arsenic Contamination using IDW Interpolation in Darrang and Nagaon Districts of Assam" at the 5th International Conference on Waste Management – RECYCLE 2025, held on 5–6 June 2025 at IIT Guwahati.
- The study utilized IDW interpolation techniques to map arsenic contamination in Darrang and Nagaon districts of Assam, supporting environmental assessment and public health planning.

Kritika Gayan, M.Tech

- Presented a research paper titled "Comparative Assessment of Water Quality Using Multivariate Statistical Analysis: A Case Study of Tirap OCP, Makum Coalfield, Tinsukia, Assam" at the 5th International Conference on Waste Management – RECYCLE 2025, held on 5–6 June 2025 at IIT Guwahati.
- The study focused on assessing water quality using multivariate statistical analysis to support environmental monitoring and sustainable waste management practices.

Nambrata Basumutary, M.Tech

- Presented two research papers at the Indian Geotechnical Conference on Geotechnical Practices for Innovations and Sustainability (IGC 2025), held from 18–20 December 2025 at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar.
- The papers focused on evaluating the swelling and permeability behaviour of granulated bentonite under varying densities and pore fluids and effect of density and organic pore fluid on the permeability of granulated bentonite contributing to research on sustainable geotechnical barrier materials.

STUDENTS ACTIVITIES & ACHIEVEMENTS

Nipjyoti Boruah, M.Tech

- Presented a research paper titled “Multi Criteria Analysis for Flood Vulnerability Identification Across Kulsri River Basin of Northeast India” at the 4th International Conference on River Health: Assessment to Restoration (RHAR 2025), organised by the Department of Civil Engineering, IIT (BHU) Varanasi during 30th January 2025.
- The study focused on identifying flood-prone areas using multi-criteria analysis to support sustainable river basin management in Northeast India.

Rajesh Deb, M.Tech

- Presented two research papers at the Indian Geotechnical Conference on Geotechnical Practices for Innovations and Sustainability (IGC 2025), held during 18–20 Dec 2025 at Dr. B. R. Ambedkar National Institute of Technology, Jalandhar.
- The presentation contributed to academic discussions on innovative and sustainable approaches in geotechnical engineering.

Sagar Kalita, M.Tech

- Participated in the 10th Indian Young Geotechnical Engineers Conference (IYGEC 2025), held on 11–12 March 2025 at the Indian Institute of Technology (IIT) Indore in association with the Indian Geotechnical Society, Ujjain, Indore, Jabalpur and Bhopal Chapters.



B.Tech 2021–2025 Batch Students cleared GATE - 2025

- **Bengia Tame**
- **Debabrata Paul**
- **Henguljyoti Gayan**
- **Mriganko Kakoti**
- **Sanahan Singha**
- **Taulik Debnath**
- **Uttara Daimary**

B.Tech 6th Semester Student cleared GATE - 2025

- **Mintu Kalita**

“Get the facts first, the theory later, then you will have something to check the theory with.”

— Karl von Terzaghi

STUDENTS ACTIVITIES & ACHIEVEMENTS



Sweta Hazarika, B.Tech 3rd Semester, won multiple medals in Karate in 2025



Pranavanu Prantu Hazarika, B.Tech 6th Semester, won 3rd prize at TechAxom



Himanjali Bharali, M.Tech, presented a paper in the Indian Geotechnical Conference 2025



Koustav Kishore Baruah, B.Tech 8th Semester, during an internship at the University of Exeter, United Kingdom



Chayanika Kalita, Depsikha Barman, Himasree Hazarika & Priyo Jyoti Brahma, B.Tech 4th Semester, won 1st position with his team at BuildXtra 2025



Bishmita Das, B.Tech 6th Semester, won Miss Venus at Pyrokinesis 2025

Best Social Internship Presentation Awards



**Sambit Poddar, Samim Hussain, Saqib Ahmed, Sasanka Pratim Kalita, Saurav Paul
4th Semester**



**Akanksha Saikia, Ananya Das, Pallabi Payeng, Prabitra Gogoi
4th Semester**



**Jonak Saikia, Akash Raj Patangia, Rahul Kalita, Rajarshi Das, Jnan Samudra Sankar
4th Semester**

"Genius is one percent inspiration, ninety-nine percent perspiration."

— Thomas Alva Edison

STUDENTS ACTIVITIES & ACHIVEMENTS

M.Tech Graduates (2025) in Water Resources Engineering

Sl. No.	Name	Sl. No.	Name
1	ABDUL WAHID	8	HRISHIK SARMA
2	AKIB JAVED RAHMAN	9	KARTIK KALITA
3	AMLANJYOTI SARMAH	10	KISHOR RAJKHOWA
4	ANNAJYOTI SAIKIA	11	KRITIKA GAYAN
5	ATLANTA PHUKAN	12	PRERONA BHUYAN
6	BARASHA KAKOTI	13	SABNAM AKHTAR RAHMAN
7	CHESONG KIRI TIMUNG	14	SONAKSHI DEORI

M.Tech Graduates (2025) in Geotechnical Engineering

Sl. No.	Name	Sl. No.	Name
1	ABHINANDAN LAHKAR	9	PARTHA PRATIM SAHARIA
2	DIPANKAR NATH	10	PRIYANGSHU DEKA
3	DIPANKAR NATH	11	RAJDEEP PAUL
4	HIMANJALI BHARALI	12	RAKESH PRATIM NATH
5	MADHURJYA SARMA	13	RITURAJ DAS
6	MAUSOM KALITA	14	SABANA YASMIN
7	NAMBRATA BASUMATARY	15	SAGAR KALITA
8	NIKUMANI KALITA		

STUDENTS ACTIVITIES & ACHIVEMENTS

PhD Awardees (2025 - 2026)

Name of PhD Student & Guide	Topic	Date of Viva-Voce
Mr. Bhaskarendra Nath Patowary Dr. Utpal Kumar Nath Professor, CED, AEC	A STUDY ON BEHAVIOUR OF PILE- RAFT FOUNDATION ON LAYERED SOIL	26/05/2025
Mr. Junaid Ahmed Choudhury Dr. Bibhash Sarma Professor, CED, AEC	WATER RESOURCES DEVELOPMENT OF NOA-DIHING RIVER BASIN	11/06/2025
Mr. Debaraj Bailung Sonowal Dr. Jayanta Pathak Professor, CED, AEC	SEISMIC FRAGILITY ANALYSIS OF EXISTING BRIDGES IN ASSAM	19/08/2025
Ms. Karabi Bharadwaj Dr. Jayanta Pathak Professor, CED, AEC	COST EFFECTIVE RETROFITTING SOLUTIONS FOR OPEN GROUND STOREY BUILDINGS IN GUWAHATI CITY	20/08/2025
Mr. Tinku Kalita Dr. Malaya Chetia Professor, CED, AEC	PERFORMANCE IMPROVEMENT OF BENTONITE-SAND MIXTURE IN LANDFILL LINER USING ADDITIVES	10/09/2025
Mr. Mohammed Harun Al-Rashid Dr. Palash Jyoti Harazika Professor, CED, AEC	AN ASSESSMENT OF GEO-ENGINEERING PROPERTIES OF STONE AGGREGATES FROM QUARRIES AND RIVER SOURCES IN PROXIMITY TO GUWAHATI URBAN AREA	12/01/2026

“Every man who has become great owes his achievement to incessant toil.”

- Sir Mokshagundam Visvesvaraya

CAMPUS RECRUITMENTS

List of Recruitments (2024 - 2025)

SELECTED STUDENTS	COMPANIES	SELECTED STUDENTS	COMPANIES
Anurag Kaushik	Skipper Limited	Krishnajyoti Sarma	Listenlights Pvt. Ltd.
Bhargav Jyoti Gayan	Larsen & Toubro	Manish Bhagawati	M/S Badri Rai & Co.
Chunky Sharma	Aquagreen	Mehbur Zaman (Passed Out)	Gulf Asia
Chunky Sharma	TIME	Mrigaraj Kalita	M/S Badri Rai & Co.
Dhanjit Roymedhi	Listenlights Pvt. Ltd.	Nitul Roy	Teachnook
Dhanjit Roymedhi	NCC Limited	Richa Mani	HINCOL
Drishtanta Seal	Teachnook	Rikabh Ranjan Baishya (Passed Out)	Gulf Asia
Drishtanta Seal	Vedanta	Sanahan Singha	Listenlights Pvt. Ltd.
Gokul Kalita (Passed Out)	TIME	Sanahan Singha	NCC Limited
Henguljyoti Gayan	Oil India Limited	Shreya Das	Teachnook
Himanab Kalita	Listenlights Pvt. Ltd.	Sibahish Kurmi	M/S Badri Rai & Co.
Indraneel Mitra	Aquagreen	Taulik Debnath	Afcons
Jashubardhan Lahkar	Vedanta	Taulik Debnath	NCC Limited
Kamal Kalita	M/S Badri Rai & Co. (passed Out)	Upasana Bora	M/S Badri Rai & Co. (passed Out)

CAMPUS RECRUITMENTS

List of Recruitments (2025 - 2026)

SELECTED STUDENTS	COMPANIES	SELECTED STUDENTS	COMPANIES
Sarlongri Teron	ORC Engineering	Nisith Bhattacharjyee	TVS Motors
Devraj Pranjal Phukan	Planet Spark	Sanidhya Pratim Sharma	Little Box
Nisith Bhattacharjyee	Planet Spark	Baishali Bose	Dromkart India
Silvineya Phukan	MyCaptain Learning Group	Snigdha Bhuyan	Larsen & Toubro

Total Selected B.Tech Students of Civil Engineering Department till Jan 2026 = 7 Numbers

MEMBERS OF AECSU 2025-26

CIVIL ENGINEERING DEPARTMENT



General Secretary
Devraj Pranjal Phukan
7th Semester



Social Welfare Secretary
Amlandip Gohain
7th Semester



Boys Common Room Secretary
Udipta Das
5th Semester

PHOTO GALLERY



Faculty Members and Staff Members of CED, AEC



B.Tech Batch (2022-2026) with Faculty Members and Staff Members

PHOTO GALLERY



B.Tech Batch (2023-2027) with Faculty Members and Staff Members



B.Tech Batch (2024-2028) during Survey Camp

PHOTO GALLERY



Condolence to Late Zubeen Garg at AEC



Faculty Members during one week Faculty Mobility Programme 2025



Farewell of B.Tech 2021-2025 Students on 4th June, 2025



Branch Picnic of 8th Semester Students, 2025



Faculty members and editorial team of AADHARSHILA during the Foundation Day, 2025



World Environment Day Celebration, 2025



Industrial Internship Presentation of 7th Semester Students, 2025



Editing of AADHARSHILA, 2026



Dr. Bibhash Sarma with B.Tech 7th Semester Students, 2025



Dr. Pulendra Dutta with B.Tech 7th Semester Students, 2025



Academic Summer Internship of 5th Semester Students, 2025



FACULTY LIST

Professors

1. Dr. Palash Jyoti Hazarika
2. Dr. Binu Sharma, HoD
3. Dr. Jayanta Pathak
4. Dr. Bipul Talukdar, Principal
5. Dr. Bibhash Sarma
6. Dr. Triptimoni Borah
7. Dr. Utpal Kumar Nath
8. Dr. Malaya Chetia
9. Dr. Pankaj Goswami
10. Dr. Bharati Medhi Das

Associate Professors

1. Mr. Bhaskarjyoti Das
2. Mrs. Puspanjali Sonowal
3. Mrs. Rupjyoti Bordoloi
4. Dr. Abinash Mahanta
5. Dr. Pulendra Dutta
6. Dr. Sasanka Borah

Assistant Professors

1. Mr. Rupam Jyoti Nath
2. Dr. Santanu Pathak
3. Mr. Rajdeep Paul
4. Dr. Dhritilekha Deka
5. Mrs. Prajna Parmita
6. Ms. Ankita Roy Karmakar
7. Ms. Satabdi Barua
8. Mrs. Asha Borgohain

STAFF LIST

Scientific Assistant

1. Mrs. Nimita Devi

Projector-Band Epidoscopic Operator

1. Mr. Nalini Deka

Laboratory Bearer

1. Mr. Laghanu Rabha
2. Mr. Ali Ahmed
3. Mr. Prasanta Kumar Das
4. Mr. Samar Jyoti Sarma
5. Mrs. Dipanita Choudhary

Junior Instructors

1. Mr. Paban Bhattacharya
2. Mrs. Nabanita Rabha

Office Assistant

1. Pranab Deka

Draftsmen

1. Mr. Manoj Kumar Dutta
2. Mr. Sunil Kumar Talukdar

Multi- Tasking Staff

1. Mr. Son Deka



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CONTACT US

DEPARTMENT OF CIVIL ENGINEERING

ASSAM ENGINEERING COLLEGE, JALUKBARI, GUWAHATI-781013, ASSAM

Email : hod_civil@aec.ac.in