



AADHARSHILA

The Annual Newsletter of the Department of Civil Engineering

AADHARSHILA



Department of Civil Engineering

Assam Engineering College, Jalukbari, Guwahati - 781013, Assam, India

Email : hod_civil@aec.ac.in



Sl. No.	Content	Page No.
01	Editorial	02
02	Principal and HOD's Message	03
03	MoU and Collaborations	04
04	Department Diaries	05 - 07
05	Article	08 - 11
06	Alumni Achievements	12 - 15
07	Publications	16
08	Faculty Activities	17 - 20
09	Student Activities	21 - 22
10	Campus Recruitment & Student Achievements	23 - 24
11	Photo Gallery	25 - 26
12	Faculty & Staff	27

Embracing the spirit of intellectual curiosity, we on behalf of the whole fraternity of the Civil Engineering Department, Assam Engineering College, proudly present the annual newsletter "AADHARSHILA", highlighting the rich heritage and accomplishments of our esteemed department. The first issue of "AADHARSHILA" was published in 2013 as a means of documenting and celebrating the various achievements and successes of our department. The newsletter serves as a source of inspiration for our department, providing a glimpse into the vast opportunities available in the field of civil engineering. We would like to express our profound appreciation and thankfulness to everyone who has contributed significantly to the creation of this newsletter.

We hope that this 12th issue of AADHARSHILA will be well received by everyone. We feel that our efforts have been successful in giving a complete overview of our department. Future success for our department is something we hope to continue.

~ Editorial Committee



Aadharshila Committee

President

Dr. Jayanta Pathak, HoD, CED

Profs-in-Charge

Dr. Triptimoni Borah
Dr. Malaya Chetia
Mr. Prasenjit Saha

Graphics Designer

Sibashish Kurmi

Student Editors

Dhruba Jyoti Deka
Sanahan Singha
Sibashish Kurmi



Principal's Message



I congratulate the Civil Engineering Department, Assam Engineering College, on the release of the 12th edition of "AADHARSHILA", the annual newsletter, which effectively highlights the various facts of the Department. I hope it serves as a valuable resource for students and the community, and inspires current and future generations of civil engineers to work towards the betterment of society. Best of luck to the department and students in their future endeavors.

Dr. Kalyan Kalita
Principal
Assam Engineering College.

Head of the Department's Message

It gives me immense pleasure to present the 12th edition of our annual newsletter, "AADHARSHILA". I, on behalf of the department, extend my gratitude and appreciation to all those who contributed to this edition of "AADHARSHILA". This annual edition provides a reflection of our efforts and activities, primarily showcasing the achievements of our students. "AADHARSHILA" serves as a source of inspiration for our students, and we aspire to develop this platform of expression to a higher standard every year. I extend my best wishes to all the members of the department and the editorial team.

Dr. Jayanta Pathak
Professor and Head
Civil Engineering Department
Assam Engineering College.



"Engineering is the art of directing the great sources of power in nature for the use and convenience of man." - Thomas Telford



Collaboration with HILTI INDIA

The CED, AEC has signed an MoU with HILTI India for establishing an industry sponsored laboratory and resource centre in the department. As a part of the joint activity B.Tech. 8th Sem. Project was carried out during Jan-June, 2023.



Agreement with ASDMA



The CED has entered into an agreement with "Assam State Disaster Management Authority", Govt. of Assam for Re-checking and Validation of DPRs for Retrofitting/Augmentation of Schools, prepared under a World Bank funded project "Assam Integrated River Basin Management Program". The CED investigating team is led by Dr. J. Pathak with other domain experts from the CED including Dr. B. Talukdar and Dr. S. Borah. The field visit for the consultancy work started on 16th June 2023.

Collaborative Project Funded by NDMA

Collaborative Project funded by NDMA on compendium of earthquake-resilient traditional buildings with IIT Ropar and IIT Roorkee completed in June 2023, Dr. J. Pathak as one of the Principal Investigators from CED, AEC jointly drafted a compendium of earthquake-resilient traditional buildings along with IIT Ropar, IIT Roorkee with an objective to document, disseminate, improve, and promote the traditional construction practices. The Project was carried out with the Financial and Administrative support from National Disaster Management Authority (NDMA), New Delhi, Govt. of India.



BitChem and AEC Agreement on Green Road Technology R&D

The CED, AEC has signed a Research Collaboration Agreement with the Bitchem Asphalt Technology Limited on 22nd September, 2023. The agreement was signed by Mr. R. Agarwal, CEO, BATL and Dr. K. Kalita, Principal, AEC. Under the agreement, AEC and BitChem have agreed to set up a Centre of Excellence in the field of Green Roads Philosophy in the Roads sector and usage of Road Paving Technologies with Bitchem branding at AEC campus. AEC will provide the Space and Time from the Concerned Faculty members while Bitchem will provide the resources, technical know-how and personnel to participate in the R&D and innovation work. Dr. B. Talukdar, Dr. S. Borah, Prof. B. Das, Dr. M. Chetia and Prof. R. Bordoloi were representatives of CED.





Workshop on Cable- Stayed Bridge

The CED, AEC organised a workshop on "Cable-Stayed Bridge on Zurari River in Goa India" on 8th Feb, 2023. Mr. U. Chakravarty, Vice President, TPF Engineering Pvt. Ltd. delivered a lecture on Cable-Stayed Bridge.



World Water Day, 2023

The CED organised an event to celebrate World Water Day on 22nd March, 2023 in the presence of Principal, AEC.

Project Conducted, Funded by the World Bank

The CED, AEC was invited to a project funded by World Bank for Vulnerability Assessment of the Power Infrastructure of Guwahati city. Dr. J. Pathak and Dr. D. Goswami worked as experts in the project. The assignment was carried out under consultancy mode from August 2022 to March 2023 by Assam Engineering College with Geo Hazard Society India along with experts from USA, Italy and Norway. The report was submitted to the World Bank and APDCL with ASDMA as the nodal agency in April 2023.



Lecture on Project Management Practices at Construction Sites

A Lecture on "Project Management Practices at Construction Sites" was delivered by Mr. A. Borpujari, Project Management Consultant on 6th April, 2023.

Construction Site Visit

The Students of CE visited the 120 MW Lower Kopili Hydro Electric Project site, Longku, Dima Hasao on 7th April, 2023.



Lecture on Air and Water Pollution

A Lecture on "Air and Water Pollution" was delivered on 8th April, 2023 by Dr. S.K. Dutta, Member Secretary, Central Pollution Control Board, Guwahati.

One Day Seminar

One day Seminar on "Bitumen and Road Construction" was attended by the CE students at NEDFi Haat, Guwahati.



Workshop on Primavera p6

A Workshop was conducted on 18th May, 2023 for the CE Students by Mr. A. Borpujari, Project Management Consultant at the department.



Training on Occupational Hazard and Safety at Project Sites

A training programme on “Occupational Hazard and Safety at Project Sites” was conducted on 24th May, 2023 by Mr. Dirakash Rahman, Project Management Consultant.

Workshop Conducted by HILTI

A workshop on “Post Installed Anchors” was organised in association with HILTI on 25th May, 2023. The speakers from HILTI were Mr. S. Mitra and Mr. K. Sharmah.

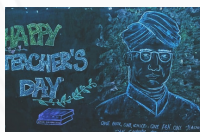


R&D Communication with Norway

Dr. Dominik Lang, Director Norwegian Geotechnical Institute, Norway, visited the department to interact with the Faculties for possible Collaboration in Research and Development on 26th May, 2023.

Achievement of Former Professor & HOD

Dr. N.N. Patwari assumed the duties of the President of Institution of Engineers India.



Teachers' Day, 2023 Celebration

The Teachers' Day was celebrated on the 5th of September, 2023 to mark the birth anniversary of Dr. Sarvepalli Radhakrishnan.

Engineers' Day, 2023 Celebration

The department celebrated the Engineers' Day i.e. the Birth Anniversary of Bharat Ratna Sir Mokshagundam Visveswaraya on 15th September, 2023.



Vishwakarma Puja Celebration

The department celebrated Sri Sri Vishwakarma Puja on 18th September, 2023 at CED to get blessings of Lord Vishwakarma.

Workshop on Skill Development

A skill development workshop was conducted for masons and building contractors by STAR Cement in collaboration with CED, AEC on 30th September, 2023.





Mock Interview Program

A mock interview for the 7th Semester Students was organised by the Training & Placement Cell in Collaboration with CED, AEC on 4th October, 2023. Mr. Balbir Singh, CGM (Projects), Power Grid Corporation of India Ltd. was the resource person of this program.

Training on Career Guidance

A training program on Career Guidance was organised by the CED for the students on 7th October, 2023. It was addressed by Career guide Mr. Debarshi Saikia, M.Tech IITG and his team.



World Mental Health Day Observed

On the occasion of "World Mental Health Day", 10th October, 2023, Mr. Krishanu Banikya from the Art of Living organisation, Guwahati delivered a lecture on Happiness and Life Changing Breathing Techniques.

Industry Based Course by HILTI India

An Informative Session was conducted by CED, AEC on "Post Installed Rebars" in Collaboration with HILTI India Pvt. Ltd. on 10th October, 2023.

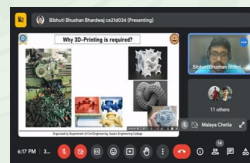


An Interactive Session with an Alumnus

On 16th November 2023, Er. Girin Kr. Bordoloi, an Alumnus of CED, AEC visited the department and shared his professional experience with the faculties and students.

Online 3-D Printing and Design Workshop

An online workshop on 3-D Printing and Design is being organised by CED, from December 10th, 2023 onwards in collaboration with knowHow3D Integrating Art with Engineering. Mr. Bibhuti Bhushan Bhardwaj, PMRF Scholar, IIT Madras and Mr. Ashish Bakiwal, Founder, KnowHow3D are the resource persons of this workshop.



"No one person can shape the life of another. Your success and happiness depends upon own self. Think for yourself and have a plan of life." - Sir M Visvesvaraya

176 years of Engineering Education in Our Country - A Reminisces

Dr. Jayanta Pathak, Prof. & Head, CED, AEC

The first engineering college of our country, Thomason College of Civil Engineering (IIT Roorkee) was established at Roorkee in present-day Uttarakhand state for the training of Civil Engineers In 1847. It was followed by the College of Engineering, Pune's precursor, The Poona Engineering Class and Mechanical School in July 1854. Due to the growing need for surveyors by the East India Company, the 'School of Survey' was established in a building near Fort St. George at the suggestion of Michael Topping in 1794. This school was one of the first of its kind in the country and it started with 8 students. It became the Civil Engineering School in 1858 and was renamed College of Engineering in 1859, with the inclusion of a mechanical engineering course. The college was shifted for a short period to Kalasa Mahal, Chepauk, before settling at its present location in 1920 as the College of Engineering, Guindy. In 1978, the College of Engineering, Guindy became a constituent college and the principal seat of Anna University. Later on, technical education expanded to other parts of the country. The engineering colleges were established in different segments of India with Kolkata in the east (1856). The college was founded as the Civil Engineering College on November 24, 1856, in the Writers' Building, Calcutta (now Kolkata). The college was established as an independent entity in 1880 as Government College, Howrah, on the premises of Bishop's College in Shibpur, Howrah. In 1921, the name of the college was changed to Bengal Engineering College. B.E. College was previously affiliated to the University of Calcutta. An engineering college was started on the BHU campus in 1919. All of these reputed technical institutions still exist today. An important step with far-reaching consequences taken in the pre-independence period was the constitution of the Sarkar Committee in 1945. It recommended the setting up of at least four higher technical institutions on lines with the Massachusetts Institute of Technology (MIT) USA, spanning the length and breadth of India. At the time of independence in 1947, the number of engineering colleges and polytechnics was 44 and 43 respectively with an annual intake capacity of 3200 and 3400. Acting upon the recommendations made by the Sarkar Committee, five IITs were established at Kharagpur (1951), Bombay (1958), Madras (1959), Kanpur (1960) and Delhi (1961) by acts of Parliament Later on, the sixth IIT was established in Guwahati (1994). India's premier technical institute set up in 1847 in Roorkee and known as the Thomson College of Engineering and subsequently, the University of Roorkee, was made the seventh IIT in 2001. Six new IITs were started in Bhubaneswar, Gandhinagar, Hyderabad, Patna, Jodhpur and Roper in 2008 followed by two more in Indore and Mandi in the year 2009. The Institute of Technology at BHU was granted the coveted status of IIT in 2012 and was renamed IIT (BHU).





Subsequently, five more IITs in the states of Jammu, Chhattisgarh, Goa, Andhra Pradesh and Kerala were established and today we have 23 IITs. In the next tier of institutions, there are 30 NITs with liberal funding from the Central Government and an autonomous structure much similar to IITs. The NITs were declared as Institute of National Importance in 2007. These were established in the backdrop of the Second Five



Year Plan (1956-61) to ensure the supply of trained manpower for the industrial projects undertaken during the plan. In the first phase, eight Regional Engineering Colleges (RECs) were set up. All RECs were later renamed and restructured as NITs in 2002. Assam Engineering College was the first engineering college in the entire north-east India and was established in 1955 followed by Jorhat Engineering College founded in 1960. Both these colleges have contributed to the development of the state and have given engineering leaders in the government sector and public and private sector units including multi-national companies in our country and abroad. More engineering colleges were established by the government namely, Jorhat Institute of Science and Technology at Jorhat, Bineswar Brahma Engineering College at Kokrajhar, Barak Valley Engineering College at Karimganj, Golaghat Engineering College at Golaghat, Dhemaji Engineering College at Dhemaji. National Institute Of Technology, Silchar is one of the 31 National Institutes of Technology of India and was established in 1967 as a Regional Engineering College in Assam. In 2002 it was upgraded to the status of National Institute of Technology and was declared an Institute of National Importance under the National Institutes of Technology Act, 2007. The Central Institute of Technology (CIT) Kokrajhar is a public technical university established in 2006 and owned by the Government of India. In the year 2006, the School of Engineering, Tezpur University was established. There are several engineering institutions, which came up in the state in the private sector to meet the demand for engineering education.

In the early 1980s, about one hundred engineering colleges were admitting around 25,000 students each year. Vellore Institute of Technology was established in 1984 and the Birla Institute of Technology & Science, erstwhile Birla Colleges of Humanities, Commerce, Engineering, Pharmacy and Science which were merged to form the Birla Institute of Technology & Science in 1964 are two prominent engineering institutions in the private sector. Today, India produces more than 1.5 million engineering students from around 3500 engineering institutions annually.

The oldest engineering college in India owes its birth to the Ganga Canal or to be precise to the political and economic conditions that led to the building of the canal, and later the college, which was the first technical institute and engineering college in the British Empire. A pioneering Educational Institution in India and the entire British- Empire, it started as Roorkee Civil Engineering College in 1847, renamed Thomason College of Civil Engineering in 1854 and rose to become the first University of technical education in independent India as the University of Roorkee in 1949. It was converted into an IIT on 21st September 2001 by an ordinance issued by the government of India declaring it as the 7th IIT, renaming it from the University of Roorkee (UoR) to the current name Indian Institute of Technology Roorkee (IIT Roorkee).



In the year 1845, R. Baird Smith, a distinguished military engineer and a Senior Irrigation officer posted on the eastern Yamuna Canal, proposed to the Lieut-Governor of the North-West provinces Sir James Thomason during his visit to Saharanpur that a school to train surveyors and draftsman for ongoing construction work of Ganga Canal project be opened in Saharanpur. In 1847, James Thomason proposed the establishment of the College of Civil Engineering at Roorkee to train engineering personnel at various levels for the public works of the country. The Roorkee College prospectus was issued on 25th November 1847 and the college started functioning with effect from 1st January 1848 offering courses in Civil engineering at three levels: for engineers, Overseers and Sub-overseers for public works. In 1854, the college was renamed as " Thomason College of Civil Engineering" in memory of its founder Sir James Thomason after his untimely demise.

The Roorkee Treatise on Civil Engineering in India is one of the earliest books on civil engineering ever published in the world. England did not have a formal system of engineering education until the 1880s, there were no engineering textbooks. The teachers of Thomason College of Civil Engineering did pioneering work in systematizing the teaching of engineering, writing lecture notes, constructing examples, making drawings, and writing them in the form of books, published as manuals, that were also periodically reviewed and enlarged. The manuals incorporated Indian engineering practice. By 1878, 17 Roorkee college manuals were published by the collective effort of the Roorkee faculty over several years. With this celebrated backward integration and legacy, today we face different challenges in engineering education, which need to be balanced with environmental concerns and climate change reality. In our country, the National Board of Accreditation (NBA) established by AICTE in 1994 is entrusted with the task of periodically evaluating technical institutions and programs based on the norms and standards laid down by the All India Council of Technical Education (AICTE). The motive of accreditation is to encourage excellence in technical institutions at the UG and PG levels. NBA changed its accreditation norms and procedure in 2009 to be in tune with international standards as per the Washington Accord which requires its member countries to exercise uniform norms in technical education at UG level. India finally became the 17th member of the Washington Accord recently on 13 June 2014. It will help create equivalence of engineering degree courses and allow Indians to practice engineering in other member countries.

(The article is prepared based on information from various sources viz. 175 years of IIT Roorkee- a coffee table book, AICTE Reports, and the author profoundly acknowledges the reference).

"I take the vision which comes from dreams and apply the magic of science and mathematics, adding the heritage of my profession and my knowledge of nature's materials to create a design." - Santiago Calatrava

From Bricks to Brains: How AI is Rebuilding Civil Engineering

Sibashish Kurmi, 6th Semester, CED

Imagine a world where bridges build themselves, roads repair overnight, and buildings automatically adjust to weather changes. This isn't science fiction - it's the future of civil engineering, powered by the magic of artificial intelligence (AI).



Think of AI as a super-smart helper for engineers. It crunches massive amounts of data, learns from past projects, and even predicts the future of buildings and infrastructure. This lets engineers:

- **Build smarter:** AI can optimize designs, making structures stronger, lighter, and more efficient. Think bridges that adjust to wind loads or buildings that generate their own energy.
- **Build faster:** Repetitive tasks like surveying, material selection, and scheduling can be automated, saving time and money. Imagine drones mapping construction sites or robots laying bricks with pinpoint accuracy.
- **Build safer:** AI can analyze sensor data from structures in real-time, detecting cracks, leaks, or potential failures before they happen. This can prevent accidents and costly repairs.
- **Build greener:** AI can help engineers design sustainable infrastructure, using recycled materials, minimizing energy consumption, and even adapting to climate change. Imagine roads that collect rainwater or buildings that breathe with natural ventilation.

But how exactly is AI doing all these miracles? Here are some examples:

- **Sophia**, the self-learning robot: Sophia can walk, talk, and even understand emotions. In construction, she could be used to inspect dangerous or hard-to-reach areas, saving human lives.
- **BIM**, the 3D brain of buildings: Building Information Modeling (BIM) is like a digital twin of a building, containing all its details in 3D. AI can analyze BIM data to identify potential problems early on, optimize construction schedules, and even predict future maintenance needs.
- **Atlas**, the walking robot with superpowers: Atlas can lift heavy objects, climb stairs, and even open doors. In construction, Atlas could be used to move materials, perform dangerous tasks, or even assist with disaster recovery.

These are just a glimpse of the possibilities. As AI technology evolves, we can expect even more exciting applications, like:

- **Self-healing roads:** Imagine roads that automatically detect and repair cracks before they become potholes.
- **Predictive maintenance:** AI could analyze data from sensors to predict when bridges, buildings, or other infrastructure need maintenance, preventing costly breakdowns.
- **Smart cities:** AI-powered traffic systems, energy grids, and waste management could optimize resource use and create more livable cities.

Of course, there are challenges too. AI systems need high-quality data, and ethical considerations around data privacy and job displacement need to be addressed.

The possibility of AI replacing Civil Engineers is not possible any time soon. AI is the most helpful friend of civil engineers and they along with Civil Engineers can make miracles come true, but the correct and precise data input is most important for the miraculous output.



An interview with Mr. Rupam Mahanta, Chief General Manager (Civil), Former Head, Geotechnical Engineering, ONGC

Building Bridges to Success

Interviewer : Mr. Dhruva Jyoti Deka
6th Sem Student, CED

Exploring the intersection of engineering brilliance and the vast energy landscape, we join in a conversation with Sir, Rupam Mahanta, the Chief General Manager of Oil and Natural Gas Corporation. A distinguished Civil Engineer, a seasoned expert in geotechnical and offshore engineering and Springer Best Paper awardee, Mr. Mahanta has achieved both the B.E. and M.E. degrees from Assam Engineering College.



A Moment in Office

Sir, could you kindly share your childhood memories and experiences from your early education in Assam? Additionally, we are curious to know what inspired you the most during those formative years.

During our childhood, most of the educational institutes were not having good infrastructure. But we found the quality of teachers and their dedication quite high. I remember that there was also significant emphasis at primary school level on skills/qualities such as good handwriting, moral education, general knowledge, discipline etc. My school education was completed at my native place Rangia. Thereafter, I completed higher secondary education from Cotton College and Engineering education from AEC. There was a strong desire to learn and excel in academic performance and to build in future, a career, that would be exciting and glamorous to work with decent earning for comfortable living.

Sir, how has your academic journey, starting with a B.E. in Civil Engineering and an M.E. in Soil Mechanics from AEC, influenced, or contributed to your career progression and experiences at ONGC?

I would say that AEC's Civil Engineering education was at par or above the standard of education imparted in many NITs (then RECs) during our time. Students from AEC who passed with relatively good academic score was sure to do well in his/her future job. It was not only in Civil Engineering but also, in all other branches of Engineering. Today, whatever little I have achieved as an engineer, it is mainly because of the excellent educational care imparted by AEC at that time. The concepts received in AEC, particularly on Structural engineering (at undergraduate level) and Geotechnical engineering (at post graduate level) helped a lot later. Practical job in offshore Geotechnical engineering required significant level of new learnings also. But the background of engineering education from AEC was very helpful in my progress.



Attending Installation of Pile Foundation for Offshore Platform

As someone holding a prominent position at ONGC, you serve as an inspiration for aspiring civil engineering students of AEC. Could you share your perceptions on the key characteristics that a civil engineering student should possess to be a successful civil engineer in future? Your perspective would be valuable for those looking to build a successful career in this field.



AADHARSHILA - 2024

Students should first develop a strong background of basic knowledge of the relevant subjects for developing real competence and making progress in future. In other words, the core concepts are very important. Students should also continue to study regularly, be aware about developments in a field, develop a habit of acquiring new skills and strengthen existing skills. Civil engineering is the oldest and a vast branch of engineering. It is not practically possible for anyone to become an expert in all areas of Civil Engineering. Therefore, students should not lose patience while learning. Step by step, we can definitely build a big reserve of knowledge and skill to become successful.

Sir, with the changing scenario where many students from core engineering fields are shifting towards careers in IT and Software, do you think that traditional core engineering disciplines, such as Civil Engineering, will gain more opportunities and importance in the coming years?

Yes, I feel so. Initial struggle may be more in core subjects taking longer time to learn and earn high; but, once an engineer becomes an expert, he/she can rise very high. Personally, I have met Civil Engineering experts who charges several lakhs of rupees per day, if engaged professionally. Of course, it takes years of hard work and vast exposure to high value problem solving to attain that kind of expertise. Another advantage of being in core branches is - one can work for long years in life. It also gives the kind of life's experience that is a mix of both field and office works which is not generally monotonous. Work in core branches additionally brings the satisfaction of creating new ideas/things/facilities/machines etc. that has physical existence in front of our eyes directly impacting the society positively. Being in core branches, opportunity of interaction with common people helps in developing other aspects of personality as well.



Receiving Innovation Award from the then CMD, ONGC

What additional skills would you suggest for students to develop apart from the need to develop a strong knowledge background of the branch of engineering?

I would suggest for core branch students to develop soft skills also along with knowledge of the core branch. This gives an edge in career development, depending of course, on the actual job assignments. In my own case, while working in offshore Geotechnical engineering for about two decades, skill of developing software code helped me tremendously. Knowledge of application of important commercial software relevant for one's branch is always helpful and having the skill of developing software code adds value. The communication skill is another important skill for engineers. In the past, there were limitation on accessing books and other resources of knowledge. Now a days, there is no such limitations. Therefore, students are placed in a learning environment where one can have exposure to top Institutes, best books, best software etc. India becoming a developed nation in the coming years, the outlook is very positive for those who have the zeal and desire to excel in any branch of engineering.

Thanks for inviting me for the interview. My best wishes to all.

On behalf of Civil Engineering Department, we thank you for giving us your valuable time for the interview and sharing your wonderful experiences. We wish you a Continued Success.

~Dhruba Jyoti Deka





Navigating Life's Global Pathways: A Journey from AEC to A?! via IITG, HKUST and UIUC

Dr. Sanandam Bordoloi, Assistant Professor, Aalto University, Finland

Moi AECIANS! Moi means hello in Finnish! Greetings from the Nordic country of Finland- widely known as the “Happiest country” in the world. I was graciously invited by the ‘Aadharshila’ committee to write my thoughts on the given title discussing my journey from a less than an average bachelor student at Assam Engineering College (AEC) to now being a tenure track assistant professor at Aalto University (A?) in Finland (2024 QS ranking at 46 in built environment). It is an opportunity for me to reconnect back to my Alma Mater and the next generation through my thoughts and words.



My “global pathway” is a journey of constant learning, enriching experiences and a privileged one that the Higher energy facilitated. I graduated from AEC in 2013 and 2015 as an undergraduate and master’s student, respectively. Thereafter, I joined Indian Institute of Technology Guwahati (IITG) in 2015, wherein I was awarded my PhD in Geotechnical Engineering by early 2019. During my PhD, I was a visiting research scholar at several universities in Mainland China for about 6 months in 2018. Right after my PhD, I was offered a position as a Post Doctoral Researcher in one of the top five groups in Geotechnical Engineering at Hong Kong University of Science and Technology (HKUST) (2024 QS ranking at 24 for Civil Engineering). After two years at HKUST, I transitioned to an industrial research and development post-doctoral position at University of Illinois at Urbana Champaign (UIUC) (2024 QS ranking at 14 for Civil Engineering) from early 2022 to fall of 2023. And here I am now-the latest hire at Aalto in the school of engineering. After providing the chronological breakdown of my global pathway I wanted to pen down my thoughts on 3 major life lessons I learnt along the global pathway.

At the end, I would like to point out how the elite universities are changing and how you could be better equipped to globally navigate your way through these elite universities.

Major Life Lessons Learnt along the Global Pathway

Win or learn: We are unfortunately taught from a young age that there are two polarities of anything we do in life-Win or Loss. The vilification of ‘Loss’ and ‘Defeat’ is detrimental to personal and professional growth, I believe. Loss and defeats will always occur as you chart outside of your comfort zones, and that is the zone where progress is made. During my global pathway, I have embraced failure as learning lessons rather than moments where it marked me being not adequate for the task in hand. Accepting failures,



Site Visit with Prof. Charles NG, HKUST

cross-analyzing why you failed and treating the reasons of failure as ‘dataset’ for the future efforts, will make you a better professional within and outside academics. I wish you more learning in the defeats.



Navigating Life's Global Pathways: A Journey from AEC to A?! via IITG, HKUST and UIUC

Talent beats hard work when talent does not work hard: It is a gift if you are talented, which I assume most AECians are, but make sure that you put in 'Hard work and consistency'. In my journey through these universities, I have showed up during those days where I was not motivated, and that I feel that has had a cumulating effect over the years. I wish you true resilience.



After 8th Semester Project Presentation

Be water! Bruce lee's quote that 'Water can crash or flow, it can heal or can devastate, it takes shape of the container it is put in'. Be water my dear AECians. During my stints in higher education institutes in India, China, Hong Kong, US and now in the Nordics; there is distinct differences in how people deal within and outside the institutes. The key is to be adaptive, accepting and acknowledging that no one way is the right way. It is how you utilize your environment to your unique way and success that will determine your ascent up the ladder. I hope you accept yourselves first and then be in tune with your surroundings.



Last Day at CED-AEC

How Elite Universities are Changing and How You Can be Equipped to Globally Navigate Through Them?

The academic minds are looking for problem solvers and not rigid engineers. In today's world, the adage of 'Jack of all, Master of none' is not a negative trait. Rather, this is what we are looking for- people who are 'critical thinkers', 'white belts' and possess 'multidisciplinary experience'. Current global problems such as 'Carbon neutrality, Renewable Green Energy, Sustainable Technologies' need experts that have multifaceted experiences. As most readers are undergraduate students, I would encourage you to take internships in higher ranked national universities (IITs, IISc, NITs, CSIR, etc.) in diverse fields. Another aspect is to learn coding and computational training in the bachelor's program. Most importantly, enjoy the process- the ups and the downs.

Treat the ups with 'Gratitude', heal the downs with 'Grace'. Happy Journey (Iloista matkaa) on your global journey!



With Professor Sreedeeep S. and Professor D.N. Singh at IITG

ALUMNI ACHIEVEMENTS



- Borah, S. and Hazarika, A. (2023). "Rainfall time series forecasting using ARIMA model". International Conference on Artificial Intelligence and Applications Alliance Technology Conference, Bangalore, India, pp. 1-5, doi: 10.1109/ICAIA57370.2023.10169493.
- Borah, B.J. and Borah, S. (2024). "Genetic Algorithm Based Software for Optimization and Design of Piles on Slopes". Advances in Slope Engineering, IntechOpen.
- Borah, S., Pathak, J. and Goswami, D. (2023). "Comparative Analysis of SSR and HVSR Method for Site Response Analysis". In: Sitharam, T.G., Kolathayar, S., Jakka, R.S., Matsagar, V. (eds) Theory and Practice in Earthquake Engineering and Technology. Springer Tracts in Civil Engineering. Springer, Singapore. https://doi.org/10.1007/978-981-19-2324-1_14.
- Borah, T. and Hazarika, M. (2023). "A Study of the Water Quality Parameter and its Impact using HYDRUS-1D in Deepor Beel, Guwahati, Assam". World Journal of Advanced Engineering Technology and Sciences, 09(02), 200205. <https://doi.org/10.30574/wjaets.2023.9.2.0148>.
- Deka, M.J. and Chetia, M. (2023). "Determination of Coefficient of Consolidation Using Rate of Settlement Methods". Indian Geotechnical Conference, 14 to 16th, December, IIT Roorkee, Uttarakhand.
- Dutta, P. "Rise of Post-Monsoon Temperature Due to Climate Change over the Brahmaputra River Basin". ICWROEE 2024, scheduled to be held from 17 - 18th February, 2024 at NIT Silchar.
- Pathak, J, Agarwal, A, Singha, K. P, Lambha D. S (2023). " Structural Assessment And Strengthening of Bridge No. 5/5 at Umngi River (Umpung) on Balat Bagli Road, Meghalaya, India." Seismic Academy Journal, Vol.04, November 2023, CE&CR.
- Katak L. and Borah, T. (2023). "A Study of Seasonal Variations in Physicochemical Characteristics and Statistical Parameters of Natural Reservoir in Deepor Beel Area, Guwahati, Assam". Conference on Water: Accelerating Change to Solve the Water and Sanitation Crisis.: World Water Day:, IEI, Guwahati.
- Rahman, S.K, Sharma, B. and Das, P. (2023). "Chemo-Mechanical Behavior of Bentonite-Sand Mixtures Inundated with Organic Pore-Fluid, Soil and Sediment Contamination". An International Journal, Taylor and Francis: DOI:10.1080/15320383.2023.2234484.



Dr. Abhinash Mahanta

- Attended a 2-Day Training Workshop organised by IIT Bombay on Training of Trainers on Geotechnical Earthquake Engineering from 6th to 7th Feb, 2023.
- Participated in a Workshop on Sustainable Geo-environmental Practices: Hazard Mitigation and Environment Protection, conducted by IIT Indore & Indian Geotechnical Society, from 27th to 31st March, 2023.
- Attended the Atal FDP at Kaziranga University from 20th to 26th November, 2023.

Dr. Bibhash Sarma

- Delivered an invited presentation on "Catchment Morphometry & Hydrology and Lake Health of Deepor and Silsako beel, Guwahati" on a symposium on 'Rejuvenating Rivers and Wetlands of Guwahati City for Efficient Urban Drainage and Sustainable Urban Development'; organised by Aaranyak and Northeast India Water Forum on July 22nd, 2023, Saturday at the Conference room of the Institution of Engineers, Assam State Chapter, Panbazar.
- Acted as a resource person in the in-house Training Program for various officials of Water Resources Department, Assam on the topic "Preparation of DPR for Flood Management Project" on 26th December, 2023 at Assam Water Research and Management Institute, Basistha, Guwahati-29 under Soil Research Division, Basistha.

Dr. Bipul Talukdar

- Appointed as Member of the State Dam Safety Committee for the state of Assam constituted by Ministry of Power, Govt. of Assam.
- Appointed as Member of Board of Studies (Civil Engineering) for University of Science & Technology, Meghalaya and Assam Science and Technology University.
- Appointed as a Member of the Special Technical Committee of Experts for Implementation of Externally Aided Projects of the Water Resources Department, Govt. of Assam.
- Attended 1-Week FDP on "NEP 2020 – Reforms in Higher Education organised by NITTTR, Kolkata.
- Working as a Team Member in National Hydrology Project (RFP No.: NHP-2020-2021-AS-278591) on Flood Mitigation Measures of Jia Bharali River funded by World Bank.
- Working as Team Member in World Bank funded AIRBMP project for Retrofitting/ Strengthening of Schools used as Flood Shelter.
- Working as Team Member in "Rejuvenation of Bharalu-Mora-Bharalu-Bahini-Basistha-Deepor System - An Indo-US Collaborative Project" initiated by North Dakota State University, USA.
- Empaneled by AICTE as Reviewer for Degree/Diploma level Technical Books translated to Assamese language.
- Nominated as the Member of the Senate of Central Institute of Technology, Kokrajhar for a Period of 2 years.
- Attended and acted as Coordinator of the 1-Week FDP on "NEP 2020: Plan for Implementation" organized by AEC in association with Assam Science and Technology University from 11th to 15th December, 2023.



Dr. Jayanta Pathak

- Invited to attend a Workshop on Analysis and Design of Seismically Isolated Structures organised by IIT Gandhinagar from 27th to 28th February, 2023.
- Worked as a team member in a World Bank-funded project for Vulnerability Assessment of the Power Infrastructure of Guwahati city along with Geo Hazard Society India, NOIRSAR, Norway. The report was submitted to the World Bank and APDCL with ASDMA as the nodal agency in April, 2023.
- invited by Asian Institute of Technology, Bangkok, to attend an International Conference on Structural Engineering : Preserving Past, Protecting Present, Building Future, during 22-23 May, 2023, in Bangkok, Thailand. Structural engineers from India and ASEAN countries attended the conference.
- Appointed as the Chairman of the Resilient Construction Committee under the Indian Chamber of Commerce North East Regional Council for the Development/Promotion/Marketing/Policy Framework/Recommendations of Resilient Construction of North East Region. The Annual Members Meet was held in Guwahati on 31st May, 2023.
- Nominated as a member of the Gauhati University Court by the honourable Governor of Assam (the Chancellor of the University), on 10th July, 2023.
- Worked as a pro bono member advising the retrofitting work of a 60-year-old bridge at Umngi River on Balat Bagli Road, Meghalaya, India.
- Working as a Team Member in a World Bank-funded AIRBMP project for Retrofitting/ Strengthening of Schools used as Flood Shelter.
- Attended a meeting with the Hon'ble Governor as a Nominee of the Governor to the court of Gauhati University on 9th October, 2023.
- Nominated as a member of the Kumar Bhaskar Varma Sanskrit and Ancient Studies University Court by the honourable Governor of Assam (the Chancellor of the University), on 9th November, 2023, vide notification GSA.10/2018/28.
- Invited as Expert (External Examiner) in the PhD Thesis Defense of Parikshit Roy, Research Scholar, NIT Durgapur, on the research topic entitled "Studies on Different Aspects of Acoustic Emission Technique for Damage Localisation in Structures", supervised by Dr. Pijush Topdar and Dr. Alope Kumar Datta on 11th December, 2023.
- Attended the Steel Construction Expo on 13-14 December, 2023, held in Mumbai on invitation by the Indian Steel Construction Association (ISCA).
- Attended the Court Meeting of Gauhati University on 28th December, 2023, as the Honourable Governor's, (the Chancellor of the University) nominee to the University Court.

Dr. Malaya Chetia

- Attended a 2-Day Training Workshop organised by IIT Bombay on Training of Trainers on Geotechnical Earthquake Engineering during 6th to 7th February, 2023.
- Completed 1-Week NPTEL-AICTE FDP on Introduction to Research during Feb-April, 2023.
- Participated in a 5-Day Workshop on Sustainable Geo-environmental Practices: Hazard Mitigation and Environment Protection, conducted by IIT Indore & Indian Geotechnical Society, from 27th to 31st March, 2023.
- Attended 1-Week FDP on "Advances in Geotechnical Earthquake Engineering" held between 25th to 29th May, 2023, organised by Indian Geotechnical Society Jalandhar Chapter in Association with Department of Civil Engineering Dr. B. R. Ambedkar National Institute of Technology.



Dr. Malaya Chetia

- Became a Fellow Member of Institution of Engineers, India on 19th June, 2023.
- Completed 1-Week NPTEL - AICTE FDP through MOOCs on “Yoga and Positive Psychology for Managing Career and Life” during August - October, 2023.
- Attended 1-Week FDP on “Advanced Environmental and Energy Techniques” organised by Department of Chemical Engineering, National Institute of Technology, Hamirpur Himachal Pradesh, from 20th to 24th November, 2023.
- Attended 1-Week FDP on “NEP 2020: Plan for Implementation” organised by Assam Engineering College in association with Assam Science and Technology University, from 11th to 15th December, 2023.
- Nominated as an Academic Expert for Civil Engineering Course Curriculum as per NEP 2020 by Higher Education Department, Govt. of Assam.
- Completed An Online Workshop on “21st Century Teaching and Learning Skills” of NPTEL.

Ms. Mitali Mandal

- Organised a workshop on “Cable Stayed Bridge” for 6th and 8th semester students on 8th February, 2023.
- Attended the 2 day INSDAG workshop on “Design Of Steel Structures with Latest Indian Codes” on 6th and 20th May, 2023.
- Attended an interactive session on “Perspective On Navigating Student Life Now And Then” on 7th November, 2023
- Coordinated an industrial talk on “Post Installed Rebars” in collaboration with HILTI, an industrial partner of AEC on 25th May and 10th October, 2023.

Mr. Prasenjit Saha

- Attended a FDP on “High-Performance Computing (HPC)” held from 17th to 21st July, 2023 organised by Centre For Development of Advanced Computing.
- Attended a Workshop on “VLSI to System Design: Silicon to End Application Approach” organised by All India Council for Technical Education, Arm Education and STMICROELECTRONICS from 31st July to 4th August, 2023.
- Attended the “INUP-i2i 2023 Online Familiarization Workshop on Quantum Materials and Nano Devices”, organised by the Centre for Nanotechnology, IITG from 6th to 8th December 2023.

Dr. Pulendra Dutta

- Attended a Workshop on “Swachhata Hi Seva” as a Resource Person, on 19th October, 2023 at USTM Campus, Baridua, Ri-bhoi District, Meghalaya.
- Acted as reviewer of International Journal of Environment and Climate Change, 2023.
- Completed 1-Week FDP on Professional Values and Ethics organised by National Institute of Technical Teachers’ Training and Research Kolkata from 4th to 10th December, 2023.



Dr. Sasanka Borah

- Participated in “Training of Trainers workshop on Structural Dynamics and Earthquake Engineering” at IIT Bombay, 13th March, 2023.
- Participated in a Workshop on Sustainable Geo-environmental Practices: Hazard Mitigation and Environment Protection, conducted by IIT Indore & Indian Geotechnical Society, from 27th to 31st March, 2023.
- Attended “Training of Trainers Workshop on Disaster Resilient Infrastructure Engineering” organised by IIT Bombay, UCL, United Kingdom on 28th April, 2023.
- Attended 1-Week FDP on “NEP 2020: Plan for Implementation” organised by Assam Engineering College in association with Assam Science Technology, from 11th to 15th December 2023.

Dr. Triptimoni Borah

- Participated in a Workshop on Sustainable Geo-environmental Practices: Hazard Mitigation and Environment Protection, conducted by IIT Indore & Indian Geotechnical Society, from 27th to 31st March, 2023.
- Became a Fellow Member of Indian Geotechnical Society (IGS) on 4th May, 2023.
- Attended 1-Week FDP on “Advances in Geotechnical Earthquake Engineering” held between 25th to 29th May, 2023, organised by Indian Geotechnical Society Jalandhar Chapter in Association with Department of Civil Engineering Dr. B. R. Ambedkar National Institute of Technology.
- Became a Fellow Member of Indian Road Congress, India on 30th May, 2023.
- Became a Life Member of Indian Geotechnical Society in this year 2023.
- Attended a STC on “Recent Advances in Civil Infrastructure, Design & Construction” organised by the Department of Civil Engineering, NIT Meghalaya, India during 7th to 11th August, 2023.
- Attended an 1-Week STTP on “Advances in Rock Engineering” organised by IGS- Aurangabad Chapter & Civil Engineering Department, MIT, Aurangabad during 21st to 25th August, 2023.
- Attended 1-Week FDP on “Advanced Environmental and Energy Techniques” organised by Department of Chemical Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh, from 20th November to 24th November, 2023.
- Attended 1-Week FDP on “NEP 2020: Plan for Implementation” organised by Assam Engineering College in association with Assam Science and Technology University, from 11th to 15th December, 2023.
- Enrolled as a Fellow Member of Institution of Engineers (India) with effect from the year 2023.
- Completed An Online Workshop on “21st Century Teaching and Learning Skills” of NPTEL.
- Nominated as an Academic Expert for Civil Engineering Course Curriculum as per NEP 2020 by Higher Education Department, Govt. of Assam.



- **Atlanta Baruah** - B.Tech. 6th Semester, won the Best Female Singer award in AEC College Week 2023. She also won prizes in the Solo and Group Singing Competitions in the College Week.
- **Aayushree Paul** - B.Tech. 6th Semester, won 2nd Prize in CADvation, a live 2D and 3D design competition using AUTOCAD software, under the banner of TEC and 2nd Prize in Drawing Competition, organised by SOVIC, under the banner of TECH Utsab, AEC.
- **Animash Paul and Himanshu Handique** - B.Tech. 6th Semester, won 2nd Runners Up in the Bridge Making Competition named "BuildXtra" held under the banner of "Udbhavanam 10.0", AEC.
- **Denish Shyam Gohain** - B.Tech, 3rd Semester, was the Assistant Director of the film "JOLKUORI". The film received the "BEST STORY" category award in the Satyajit Ray Mrinal International Film Festival 2023.
- **Dhananjay Das** - B.Tech. 3rd Semester, published a book named "Roktakto Premor Xikoli" in November, 2023.
- **Disha Baishya** - B.Tech. 3rd Semester Secured 2nd Position at "Mindspire-A State Level Institutional Quiz Competition" Organised by Inspire Academy, Tezpur, 2023. She also secured 2nd and 3rd Position at "SciQie the Open General Science Quiz" and "Origami-A State Level Inter Institutional Quiz" respectively organised by TEQUAS under the banner of their Annual Quiz fest "Gyanoday".
- **Dwihung Basumatary** - B.Tech. 7th Semester, got selected for M.Tech. Programme under the early admit M.Tech. Scheme (2024-26), at IIT Gandhinagar in department of Geotechnical Engineering.
- **Hridai Prakash Saikia** - B.Tech. 3rd Semester, had two of his Handicrafts that were exhibited under "ArTools" International Online Summer Art show 2023.
- **Judig Borpatra Gohain, Sanidhya Pritam Sharma** - B.Tech. 5th Semester and **Palash Protim Borah** - B.Tech. 7 Semester, won silver medals in Table Tennis at IITG SPIRIT'23 held from 2nd to 5th November 2023.
- **Kaushik Rajbongshi** - B.Tech. 6th Semester, won 1st Prize in CADvation event held under Tech Axom' 23 event held in AEC.
- **Kaustav Jyoti Talukdar** - B.Tech. 5th Semester, performed a Stage Drama along with other members of the Mukhaa Club under the Sinaki Programme.



- **Kusumika Das** - B.Tech. 7th Semester, got selected for M.Tech Programme under the early admit M.Tech Scheme (2024-26), IIT Gandhinagar in the department of Geotechnical Engineering.
- **Pallavi Deka, Papiha Sabnam, Paheli Sabnam and Nirupam Das** - B.Tech. 7th Semester, presented their Paper on “DECCARBOCAMPUS”, A Carbon Footprint Calculating and Managing Application in the INSORE Conference, 2023 Phase-II.
- **Paheli Sabnam** - B.Tech. 6th Semester, won the Open-mic Story Writing Competition in Pyrokinesis, 23, AEC and also won 2nd Prize under G20 Summit with the team members : Nirupam Das, Pallavi Deka and Paheli Sabnam.
- **Pratyasa Deka** - B.Tech. 7th Semester, got selected for M.Tech Programme under the early admit M.Tech Scheme (2024-26) at IIT Gandhinagar in the department of Geotechnical Engineering.
- **Trinayane Kalita**, B. Tech. 8th semester and **Roselina Daimari**, M.Tech. (GeoTech. Engg.), 4th Semester Presented Paper at 4th Biannual International Conference Recycle 2023 at IITG.
- **Vishal Rana** - B.Tech. 6th Semester, won Mr. North East 2023 in Modelling.
- A Street Play by the **MUKHAA CLUB, AEC** was performed on “Choose Life Not Drugs, Say No to Drugs” on 28th September.



Animash Paul and Himanshu Handique-
B.Tech. 6th Sem., won 2nd prize at
“BuildXtra”



Drama Performance of Mukha Club, AEC



Dhananjay Das, 3rd Sem., CED Published a Book



HandiCrafts of Hridai Prakash Saikia, 3rd
Sem., CED



Vishal Rana - 6th Sem., CED, winner of
Mr. North East



Judig Borpatra Gohain, Sanidhya Pritam Sharma,
5th Sem. and Palash Protim Borah, 7th Sem., CED
at IIT-G



Civil Engineering (2022-23) Batch Campus Recruitment

Companies	Selected Students	Companies	Selected Students
Advantage Club	Sriporna Nath	Adani Enterprises Limited	Anurag Dev Sarma
Aquagreen	Tuhin Saha	Adani Enterprises Limited	Dhiman Kumar Sarmah
Cognizant	Jahid Hasan Choudhury	Adani Enterprises Limited	Mitakshi Das
Cognizant	Ashmita Dey	Adani Enterprises Limited	Mayuri Prasad
Hike Education	Navneet Das	Adani Enterprises Limited	Shyamalee Tamuli
Hike Education	Yashin Halder	Adani Enterprises Limited	Ritiz Sabhapandit
Hike Education	Ashapurna Sarma	Amrit Cement	Uddipta Kapil
ICICI	Jayshri Das Gupta	Federal Bank	Arishma Kashyap
ICICI	Mayuri Prasad	Flipkart	Sibani Konwar
ICICI	Kailash Singha	Flipkart	Shangjukta Das
ICICI	Ranjana Pegu	L & T	Achinta Baruah
ICICI	Dhiman Kumar Sarmah	L & T	Maitreyee Konwar
ICICI	Sahil Mahmmad Zaman	L & T	Navneet Dip Das
ICICI	Barasa Kalita	OIL	Ankur Jyoti Adhikary
ICICI	Nipjyoti Deka	Planet Spark	Rubaiyana Taskin
ICICI	Bipul Rabidas	Ultratech Cement	Laxman Basumatary
ICICI	Dhritishree Saharia	Ultratech Cement	Bikash Kumar
ICICI	Chiranjeev Narayan Goswami	Ultratech Cement	Sazid Akhter
Impulse Education	Aditya Chanda	Ultratech Cement	Monuranjan Narah
Impulse Education	Chiranjeev Narayan Goswami	Ultratech Cement	Ronald Chetia Patra
Impulse Education	Ankur Jyoti Adhikary	ZSEE	Jahid Hasan Choudhury
Nation With Namu	Pranab Borah	ZSEE	Akash Singha
Rdc concrete	Sibani Konwar	ZSEE	Kailash Singha
Rdc concrete	Jayshri Das Gupta	ZSEE	Yashin Halder



AADHARSHILA - 2024

A total of 10 students of CE completed 16 courses of NPTEL in the year 2023

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
ANISHA DEORI
for successfully completing the course

Availability and Management of Groundwater Resources

with a consolidated score of **85** %

Online Assignments	23.75/25	Proctored Exam	61.22/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 508

Jul-Oct 2023
(12 week course)

Indian Institute of Technology Kharagpur

swayam
Digital Education Resource Platform

Elite

NPTEL Online Certification
(Funded by the MoE, Govt. of India)

This certificate is awarded to
RAJGEET TALUKDAR
for successfully completing the course

Integrated Waste Management for a Smart City

with a consolidated score of **75** %

Online Assignments	18.6/25	Proctored Exam	56.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: 1177

Jul-Oct 2023
(12 week course)

Indian Institute of Technology Kharagpur

swayam
Digital Education Resource Platform

Civil Engineering (2023-2024) Batch Campus Recruitment in AEC (Till 02/01/2024)

Companies	Selected Students
Ajmal Super 40	Merajul Haque
Ajmal Super 40	Abhishek Das
Ajmal Super 40	Abdul Rashid
Aquagreen	Himmujal Kashyap
Larsen & Toubro	Netrodhar Payeng
Larsen & Toubro	Karneswar Pegu
Larsen & Toubro	Pratyasa Deka
RDC CONCRETE	Pallavi Deka
RDC CONCRETE	Reshmina Ahmed

CE B.Tech. Students (2019-2023) Batch Selected for Higher Studies

Name	Institute	Course
Abu Sayed Ahmed	NIT Surathkal	M.Tech. in Transportation Engineering
Ashmita Dey	IIT Gandhinagar	M.Tech. in Structural Engineering
Ranjana Pegu	IIT Guwahati	Ph.D. in Structural Engineering
Rubaiyana Taskin	IIT Bhubaneshwar	M.Tech. in Environmental Engineering

CE B.Tech. Students who Cleared GATE 2023

Abdur Rasid
Barshring Haam Thousen
Bipul Rabidas
Dhiman Kumar Sarma
Merajul Haque
Rajdeep Nath
Ranjana Pegu
Rubaiyana Taskin
Sagar Kalita
Sujata Sarkar
Tuhin Saha

Alumni of CE Selected in Combined Competitive Exam 2022 Conducted by APSC

Name	Post	Rank
Nilim Gayan	ACS	49
Arishma Kashyap	ACS	73
Alyaman Firdus Ahmed	ACS	81
Jakie Ahmed	Assistant Accounts Officer	124



Photo Gallery, 2023



Dr. B. Sarma and Mr. B. J. Das at Kopili Hydro Electric Project, Dima Hasao



Principal, AEC on the occasion of Vishwakarma Puja, 2023



Dr. B. Sarma at Assam Water Research and Management Institute



Dr. J. Pathak in the meeting with the Hon'ble Governor of Assam



FDP on NEP 2020



Felicitation of Dr. D. Goswami, former Associate Prof. of CED for taking Charge as Principal, BVCE



Dr. A. Mahanta at Atal Faculty Development Program at Kaziranga University



Dr. J. Pathak at Annual Members Meet, 2023 of Indian Chamber of Commerce (ICC)



CED Faculty Members during Industrial visit of 5th Sem. Students at Century Ply Ltd, Palashbari



Project Viva of B.Tech. 8th Semester, 2023



Photo Gallery, 2023



Drone Survey



Student Performance at Teachers' Day 2023



Training Program on Group Discussion



Research Paper Presentation in IITG



An Interactive Session with Er. Girin Kr. Bordoloi



1st Position at Paper Presentation competition during Water Day, 2023



Department visit of 1st Sem. CE students during Orientation Program 2023



Industrial Visit of 7th Sem. Students at FCI, Changsari



Student Performance at Teachers' Day, 2023



Engineering Survey - Viva Voice Examination, 2024



CE B.Tech. Students (2020-2024) Batch



Industrial Visit of 6th Semester Students to Ultra Tech RMC Plant



CED, AEC

Professors

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

Associate Professors

1. Mr. Bhaskarjyoti Das
2. Ms. Puspanjali Sonowal

Assistant Professors

1. Dr. Bharati Medhi Das
2. Ms. Rupjyoti Bordoloi
3. Dr. Abinash Mahanta
4. Dr. Pulendra Dutta
5. Dr. Sasanka Borah

Assistant Professors
(Contractual)

1. Mr. Prasenjit Saha
2. Ms. Mitali Mandal
3. Ms. Rhitwika Barman
4. Dr. Anindita
Bhattacharjya

Scientific Assistants

1. Mr. Niren Chandra
Baishya
2. Ms. Nimita Devi
3. Mr. Jogesh Das

Junior Instructors

1. Mr. Paban
Bhattacharyya
2. Ms. Nabanita Rabha

Projector-Band Epidoscopic
Operator

1. Mr. Nalini Deka

Office Assistant

1. Mr. Rupam Dutta

Draftsmen

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

Laboratory Assistants

1. Mr. Prasanta Kumar Das
2. Mr. Laghanu Rabha
3. Md. Ali Ahmed
4. Mr. Samar Jyoti Sarma
5. Ms. Dipanita Choudhury

Multi-Tasking Staff

1. Mr. Son Deka

"The engineer has been, and is, a maker of history." - James Kip Finch



CIVIL ENGINEERING DEPARTMENT



Our Industry/ Academic Partners



CONTACT US

Department of Civil Engineering
Assam Engineering College, Jalukbari, Guwahati-781013, Assam
Email : hod_civil@aec.ac.in