



# AAKRITEE

A QUARTERLY NEWSLETTER OF CIVIL ENGINEERING DEPARTMENT  
JIST, JORHAT-785010



Picture Credit: Dipu Hazarika (1st sem)

**"CIVIL ENGINEERING IS THE APPLICATION OF ENGINEERING PRINCIPLES AND PRACTICES TO THE DESIGN, CONSTRUCTION, AND MAINTENANCE OF CIVIL INFRASTRUCTURE AND FACILITIES. THE FIELD ENCOMPASSES VARIOUS ACTIVITIES, FROM PLANNING AND DESIGN TO MONITORING AND MANAGEMENT."**

**– THE AMERICAN SOCIETY OF CIVIL ENGINEERS**

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# VISION

To produce global engineers with superior technical skills and competency in the field of civil engineering with an outcome inducing education system and to promote high end research programmes.

- To provide quality education to students for an in-depth comprehension of fundamentals of civil engineering with conventional as well as with new teaching tools.

- To provide training and coaching programmes in relevant skill development courses in order to prepare the students for various competitive examinations as well as to thrive in the challenging workplace.

- To have constant communications and collaborations with elite educational institutes, industries and R & D organisations within and across the country for the timely up-gradation of Engineering and Technology.

# MISSION

- To cultivate a friendly, supportive and competitive academic environment to extract the best contributions from students, faculty and staff members.

- To provide quality research and consultancy services for industrial and societal needs, and also to attain to the needs of the Institute.



# ABOUT THE DEPARTMENT

The department of Civil Engineering (CE) was established in the year of 2016. Our department offers Bachelor of Technology programme for a duration of four years with a capacity of 60 students per batch. Our department is striving to improve its infrastructure including laboratories and various other facilities. We aim in acquiring the programmes at postgraduate levels in the near future as well. The department promises to produce the finest of Civil Engineers with our team of committed, competent and robust faculty members to serve the needs of our nation to move head on with the advancement of modern technology. In order to keep up with the technology world, our department provides courses like C, C++ in the very first year of engineering and also applications like AutoCAD, remote sensing, surveying etc. are also included for better understanding and performances. Students from our department have been doing their internships in various prestigious companies and institutions like OIL (Oil India Limited), PWD (Public Works Department), IIT (Indian Institute of Technology) etc. Each and every faculty member of our department plays a major role to bring out the best out of each one of the students and give their utmost sincerity to help us in our hustle for a better future. The department has also started to offer consultancy services to organisations in solving various civil engineering problems.



# DEPARTMENTAL ACTIVITIES

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- Two groups of students from 4th semester were sent to Jorhat Engineering College for their summer internship, which was held from 16th August to 15th September, 2022.
- The students from 6th semester visited the sleeper factory in Mirza on 30th August, 2022.
- The classes for 3rd, 5th and 7th semester students were commenced from 18th September, 2022.
- Main project groups of the final year students were formed and guide allotment was done on 30th September, 2022.
- CIE-1 for 3rd, 5th, 7th semester students were held from 12-15th October, 2022.
- The Induction programme for the freshers were held from 21st October to 10th November, 2022.



# FACULTY ACTIVITIES

## **Dr. Atanu Kumar Dutta**

- Published a research article titled 'Seismic Evaluation of Assam Type Building using Abaqus' at the 17th Symposium on Earthquake Engineering, 14-17th November, 2022 at IIT-Roorkee and is to be published as Springer proceedings.

## **Dr. Sudarshan Patowary**

- Appointed as a member for B. Tech 1st Semester counselling and document verification process.
- Appointed as member secretary for the construction committee of AICTE funded SC/ST boys' hostel of JIST.

CVCV

## **Dr. Dipjyoti Baglari**

- Organized the 21-day Induction Programme-2022 of JIST serving as Joint Coordinator from 21st October to 10th November, 2022.
- Organized innovative idea competition 'IDEATHON' in JIST on 1st October, 2022 under the Institution's Innovation Council, JIST.
- Organized a motivational talk 'My Story' by alumnus and successful innovator Mr. Nilotpall Baruah on 5th November, 2022.
- Completed a 12-week SWAYAM-NPTEL course on 'Introduction to Engineering Seismology' by IISC, Bangalore.
- Delivered a presentation/talk on 'Academic Rules and Regulations' for B. Tech 1st year students of JIST during the Induction Programme, 2022.



# FACULTY ACTIVITIES

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## **Dr. Pranab Jyoti Barman**

- Initiated vermicomposting work at JIST campus.
- Appointed as a member of Anti-ragging committee for the session 2022-23.
- Initiated bamboo treatment facility at JIST campus.
- Initiated plastic waste disposal from JIST campus with the help of an N.G.O. Jeuti.
- Appointed as the Warden of Hostel 2, JIST.

## **Mr. Manipuspak Hazarika**

- Successfully completed an 8-week (August-October, 2022) NPTEL Online Certification Course (SWAYAM) on 'Plastic Waste Management' offered by IIT Kharagpur and has secured ELITE+SILVER certificate with a consolidated score of 80%.
- Awarded as one of the TOP 5 contributors of 'Golden Moments with Teachers' an online competition organized by MyGov Assam as part of Teachers' Day Celebration, 2022.
- Organized the 21-day Induction Programme-2022 of JIST serving as Executive Member from 21st October to 10th November, 2022.
- Organized an intra-college Quiz Competition at JIST on the occasion of National Unity Day, 31st October, 2022.
- Coordinated the ongoing Lecture series on 'Pavement Engineering and Management' by Mr. Bibhuti Bhushan Bhardwaj, PMRF Scholar, IIT-Madras (20th September to 18th Dec, 2022) for B. Tech Final Year Civil Engineering students of JIST.

## **Mrs. Deepika Taye**

- Mrs. Deepika Taye has attended a seminar on "Relevance and importance of ESG (Environment, Social Responsibility and Governance) for Sustainable Development Goals of Organisation" organized by UltraTech Cement Ltd.



# STUDENT ACTIVITIES

- Trimon Jyoti Kashyap, a student from 1st semester has secured 3rd position in 29th Assam State Aquatic Championship, 2022 which was organised by the Assam Swimming Association and was held in R. G. Baruah Sports Complex, Guwahati on 10th to 12th June, 2022 in 50-meter Men's Breaststroke event.
- Selimuddin Ahmed, a student from 5th semester has finished a course on MATLAB, and AutoCAD from Wissensquelle on 31st July, 2022.
- Nipasa Deka, a student from 5th semester worked as an Executive Secretary in an international non-profit organisation, THE Dynamics, bridging the income and gender gap in STEM till 13th August, 2022.
- Bishal Kalita, Rabishankar Borah, Manash Pratim Deka, Aparajita Das and Nipasa Deka, students from 5th semester, were sent to Jorhat Engineering College on 16th August, 2022 for their Academic Internship which was based on the estimation of the rainwater harvesting project to be built in the main building arena of the institute.
- Siddhartha Das, Sujail Ali, Gyandeep Das, Wasim Zafar Ali and Wahidul Alam Choudhury, students from 5th semester, were sent to Jorhat Engineering College on 16th August, 2022 for their Academic Internship which was based on a study of properties of road, aggregates and design mix of GSB, WBM and WMM.
- Two groups from 5th semester went to TRTC, Bamunimaidan and Amingaon in Guwahati for their Academic Internship based on AutoCAD and Staad pro on 18th August, 2022.
- Jitul Kumar Nath, Bidisha Deka, Rajlakshmi Sarma and Aashtha Medhi, students from 3rd semester did their Social Internship in IIT Guwahati from 20th August, 2022.



# STUDENT ACTIVITIES

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- One group from 7th semester went to visit the Greater NNP Project in Mariani, Ajan Chalikhowa PWSS and Greater Titabar Water Supply Scheme Water treatment plant (Zone 1) in Jorhat (PHE) Division on 22nd, 25th and 30th August, 2022 respectively.
- One group from 7th semester went to visit the sleeper factory in Mirza, Guwahati, during their Industrial Internship on 30th August, 2022.
- Mrinmoy Deka, a student from 5th semester, got selected among the top 10 ranks of singers in an event named, 'BARNIL KONTHO' in Jorhat on 25th September, 2022.
- Kaushik Majumdar and Aparajita Das, students from 7th and 5th semester respectively were selected as Innovation coordinator for the IIC Council in JIST on 26th September, 2022.
- Nisha Kumari and Mrinmoy Deka, students from 7th and 5th semester respectively were selected as Start-up coordinator for the IIC Council in JIST on 26th September, 2022.
- Haridarshan Borah and Manash Pratim Deka, students from 7th and 5th semester respectively were selected as Internship coordinator for the IIC Council in JIST on 26th September, 2022.
- Samir Kalita and Nipasa Deka, students from 7th and 5th semester respectively were selected as IPR coordinator for the IIC Council in JIST on 26th September, 2022.
- Sonali Satabdi Ojha and Sourabh Jyoti Kashyap, students from 7th and 5th semester respectively were selected as Social Media coordinator for the IIC Council in JIST on 26th September, 2022.
- Debashish Saikia, Anup Talukdar, Atlanta Phukan, Imran Hussain, Debojyal Parashar, Rhishikesh Gogoi, Nischay Saikia, Nilim Kapil, Sarkiri Hanse, students from 7th, 5th and 3rd semester were selected as General members for the IIC Council in JIST on 26th September, 2022.
- Mrinmoy Deka, a student from 5th semester and a couple of students, participated in National Terrain Treader event organised by NIT Silchar at their Techfest from 20th to 23rd October.





# STUDENT ACTIVITIES

- Biswajit Saikia and Amanisha Bora, students from 5th semester, acted as volunteers for the Induction programme which was held in the college from 21st October, 2022.
- Nipasa Deka, a student of 5th semester has attended an event organised by YourStory Media named, 'Revolution in early learning with Creative Galileo' on 10th October, 2022.
- Deekam Priyam Medhi, a student from 5th semester organized a cricket name, "Wasim Ali Memorial Cricket Tournament".
- Harshita An Deka, a student from 1st semester was awarded the 2nd prize for Poster and Essay and 3rd prize for Debate competitions, which were held in the Induction programme conducted in JIST.
- Kajori Moran, a student from 1st semester was awarded the 2nd prize for Dance competition which was conducted in the Induction programme in JIST.
- Prerana Deka, a student from 1st semester participated in Art, Quiz and Recitation competition held in the Induction programme in JIST.



## ALUMNI SECTION

**Darshan Buragohain, an alumnus of the batch of 2022 speaks about his experience in JIST.**



"নমস্কাৰ, পোন প্ৰথমতে মই 'আকৃতি ৪.০' ৰসৈতে জড়িত মোৰ শ্ৰদ্ধাৰশিক্ষাগুৰু আৰু মোৰ অনুজসকলকখন্যবাদ জ্ঞাপন কৰিব খুজিছো, কাৰণআজি তেওঁলোকৰ প্ৰচেষ্টাত আকৌ এক নতুনসংস্কৰণ প্ৰকাশ হ'বলৈ গৈ আছে। প্ৰতিষ্ঠানখনক এৰি অহা প্ৰায় ৫ মাহেই হ'ল, কিন্তুআজিও নাজানো কিয় প্ৰতিষ্ঠানখনলৈ বাককৈয়েমনত পৰে। ৰুম নং ১০৮ত ক্লাছ কৰা আৰু তাৰপিছত গৈ বিকাশ দাৰ canteenত বহি আড্ডা মৰা; কিযে দিন আছিল সেইবোৰ। এইয়া মোৰ সৌভাগ্য যেমই আমাৰ বিভাগৰ মুৰব্বীপ্ৰবক্তা শ্ৰদ্ধাৰ সুদৰ্শন পাটোৱাৰী ছাৰৰ তত্বাৱধানত মই "আকৃতি"ৰ প্ৰথম আৰুদ্বিতীয় সংস্কৰণৰ সম্পাদক হিচাপে দায়িত্ব পালন কৰিবলৈ সুযোগলাভ কৰিছিলো। প্ৰতিষ্ঠানত থকাৰ

সময়ছোৱাত suspend হোৱাৰপৰা ধৰি আন্দোলন কৰা, কি কি যে কৰিছিলো!

শেষতমোৰ অনুজ সকলোলৈ এটাইঅনুৰোধ - 'তোমালোকে ফুৰ্তি কৰা, তাত একোআপত্তি নাই, কিন্তু তাৰসমান্তৰালভাবে পঢ়া শুনাও বজাইৰাখিব।' "জিষ্ট কেৱল এখন প্ৰতিষ্ঠাননহয়, এইয়া হৈছে আবেগ, অনুভূতি আৰু এক এৰিবনোৱাৰা কাহিনী"। "

**Rituraj Das, an alumnus of the batch of 2022 speaks about the department and his experiences.**

"Civil Department is one of the newly started departments in JIST which was introduced in 2016. Being a newbie, within few years it has proved itself that it is one of the most active departments both in academics as well as in extracurricular activities which is only possible because of the strong bond between the faculties and the students. Our respected HOD sir as well as all the faculties and the lab assistants work really very





## ALUMNI SECTION

hard and dedicatedly to make one of its kind. Talking from my experience, I entered JIST in 2018, which is actually the third batch of the Civil Department. Earlier there was some shortage in labs as well as lack of equipment. But moving from 2018 to 2022, the department has now full-fledged lab facilities and I hope it will grow to new heights in few years. I would like to thank our professors who were the prime reason for shaping our destiny ahead and the non-teaching staff for being kind to us. On behalf of the entire batch of 2022 and myself, I would like to express my deep gratitude to all the faculties of the department who helped us in this beautiful journey.

JIST বুলিকলে ৪ বছৰৰ যিমধুৰ স্মৃতি, অনুভৱ সেইয়া অনন্য। It was August 2018, when I first set foot inside the campus. The first impression after arriving JIST was a little bit disappointing, because the infrastructure was not as expected, being the third Engineering College of Assam. I was not satisfied by the campus and felt regret at that time. Those days were tough for me but gradually with time the place warmed up to me and so did I. After that it was all a rollercoaster of memories. The place gave me some of the best people I had ever made from Sadiya to Dhubri and memories that I wish to cherish for the rest of my life. One of the most precious things that JIST gifted me was JORBIM, my second home where I stayed & it is the place where I have tones of memories. Those sleepless nights before exams, maintaining attendance, classroom addas, hectic days during college week and 'Abeyaantrix', break at Bikash da's canteen were blissful. As I already mentioned about its infrastructure, yes, it's true that compared to AEC & JEC, JIST somewhat lacks in infrastructure. But in terms of academics, JIST never worried us, in fact it has tried to provide us with the best faculties in the institution. Lastly, I'd like to thank the entire JIST family I met; without them it was not possible to survive in this rollercoaster ride. The journey was more beautiful than the destination indeed. I wish you all the very best for your upcoming future. Good Luck Juniors."



# GALLERY SECTION



Site visit at Ajan Chalikhowa PWSS  
(7th sem)



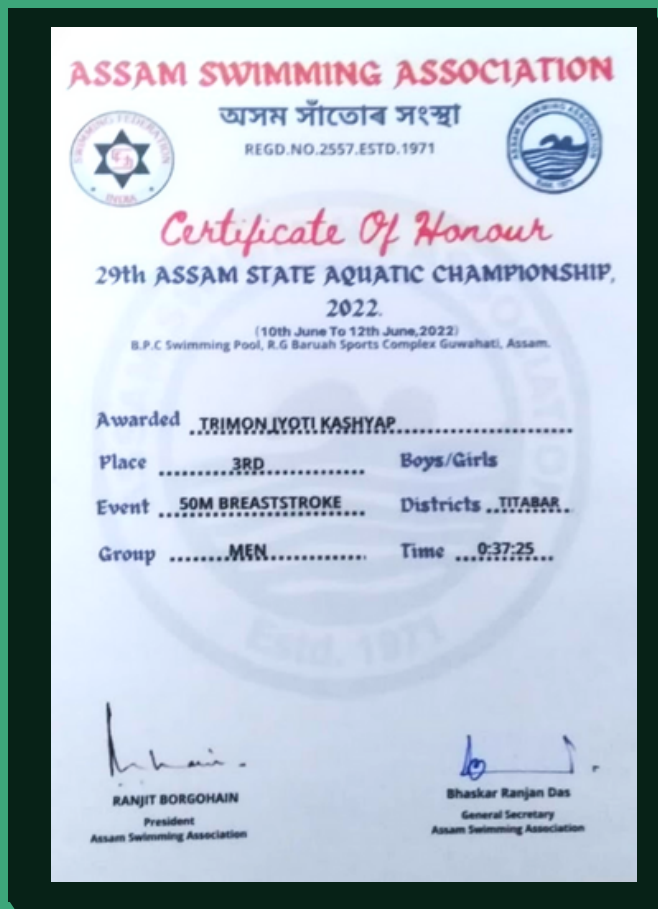
Internship at TRTC, Bamunimaidan, Guwahati  
(5th sem)



Internship at JEC  
(5th sem)



Campus sideview by  
Kajori Moran  
(1st sem)



Certification of winning 3rd prize in Assam State Aquatic Championship by  
Trimon Jyoti Kashyap  
(1st sem)



Portrait of Lord Krishna by  
Piyush Priyam Borah  
(1st sem)





# GALLERY SECTION



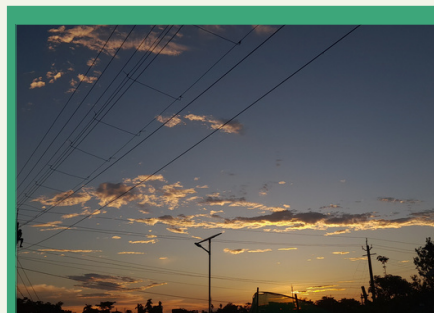
After sunset campus view by  
Dipankar Bora  
(5th sem)



Felicitated by Principal Sir for Poster-making competition  
to Harshita An Deka  
(1st sem)



Golden hour captured by  
Dipankar Bora  
(5th sem)



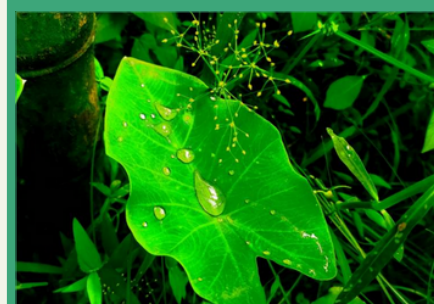
Luminous cloud captured by  
Nipasa Deka  
(5th sem)



Site visit at Sleeper factory in Mirza, Guwahati  
(7th sem)



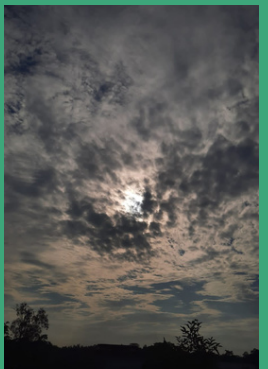
Phenomenal after sunset view by  
Dipankar Bora  
(5th sem)



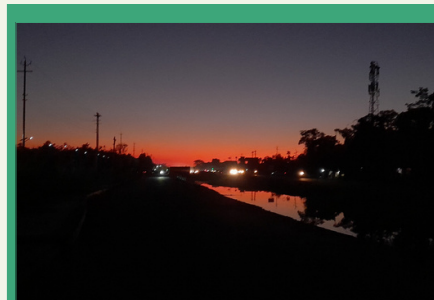
Macro photography by  
Kajori Moran  
(1st sem)



Rainwater harvesting project estimation at JEC  
(5th sem)



Cloudy sky captured by  
Aparajita Das  
(5th sem)



Vermillion sunset captured by  
Nipasa Deka  
(5th sem)



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