



# AAKRITEE

AN OFFICIAL NEWSLETTER BY CIVIL ENGINEERING DEPARTMENT, JIST

JANUARY 2022

FIRST ISSUE



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## VISION

To produce global engineers with superior technical skills and competency in the field of civil engineering with an outcome-based education system and to promote high-end research programmes for a developed and sustainable society and nation.



## MISSION

- 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 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, industry and R & D organisations within and across the country for the timely up-gradation of engineering and technology.
- 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, societal and to the needs of all the stakeholders of the institute.



## ABOUT THE DEPARTMENT

The largest and most versatile branch of engineering has been introduced in the institute in the year 2016. The department promises to produce the finest of engineers with our team of committed and potent faculty members. The department is continuously and swiftly upgrading its infrastructure including laboratory and other facilities. Currently, the department offers the degree of Bachelor of Engineering with a capacity of 60 students per batch. However, the department aims in acquiring the programmes at postgraduate levels in near future and constantly striving for the same. The department has also started to offer consultancy services to organisations in solving various civil engineering problems.

*Everybody is a genius. But if you judge a fish by its ability to climb a tree, it will live its whole life believing that it is not stupid.*  
– Albert Einstein



## FROM HOD'S DESK



It gives me immense pleasure to announce that the Department of Civil Engineering of JIST is publishing the first issue of Aakritee. This issue is the reflection of the creativity of the students, faculties, alumni and staff involved in multifarious activities. I appreciate the combined effort of the Editorial Board, other students and the faculty members involved in bringing out this issue for the readers.



**Dr. Sudarshan Patowary**

Assistant Professor and HOD  
Dept. Of Civil Engineering

*Failure is central  
to Engineering.  
Every single  
calculation that  
an engineer makes  
is a failure  
calculation.  
Successful  
engineering is all  
about  
understanding how  
things break or  
fail.*

**- Henry Petroski**





# DEPARTMENTAL ACTIVITIES



1. A theme-based webinar was organized on National Education Policy (NEP-2020) on 25th February 2021 in collaboration with the University of Calcutta, India under TEQIP-III, MHRD.
2. Academic Internship for 4th semester under ASTU regulation was conducted by the faculties of the department in online mode.
3. A departmental meeting was held on 30th August 2021 for course distribution among the faculty members.
4. A site visit to the ongoing construction sites was conducted in JIST with all BTech 7th semester students, Dr. Atanu Kumar Dutta, Principal JIST and Dr. Dipjyoti Baglari, Assistant Professor, Department of Civil Engineering.
5. All laboratory classes were started for B.Tech 3rd and 5th-semester students from December 2021.
6. Special laboratory classes for B.Tech 7th-semester students were conducted in the month of Oct-Nov 2021 to compensate for their losses during the Covid-19 lockdown period.

*Wisdom is not  
a product of  
schooling but  
of the lifelong  
attempt to  
acquire it.*

**– Albert Einstein**





# FACULTY ACTIVITIES

## 1 .Dr. Atanu Kumar Dutta:

- A paper titled “Flood Proof House: An Alternative Approach to Conventional Housing Typology” authored by Gautam Das, Mousom Mrinmoy Kashyap, Niranjana Konwar and Atanu Kumar Dutta was published in Climate Change and Water Security, Vol. 178 and published by Springer, Singapore.
- A paper titled “Influence of Soil-Structure Interaction in Elevated Water Tank” authored by Sutanuka Nath and Atanu Kumar Dutta was published in Geohazards, Proceedings of IGC 2018 and published by Springer, Singapore.
- A research paper titled “Pushover Analysis of Existing Asymmetrical Buildings Using Modal Load Pattern, Soil Flexibility and Infill Walls- A Case Study” authored by Karishma Pathak and Atanu Kumar Dutta was published in Lectures Notes in Civil Engineering (LNCE), Vol. 188, ISBN – 978-981-16-5672-9, and published by Springer, Singapore.
- An article named “Ishwar Srishti Aaror Kotha” authored by Atanu Kumar Dutta was published in Ishwar- Bishakh, Jukti Aaru Bigyan, and published by Bandhab Prakashan.
- An article named “Jibonor Orthor Hondhanot Manuh” authored by Atanu Kumar Dutta was published in Prokakh, December 2021 edition, ISSN – 2279-0683, 5. and published by Asom Prokashan Parishad.
- Worked as an editor along with Dr. Parimal Bakul Barua of “Souvenir”, a magazine published as a part of Diamond Jubilee Celebration of Jorhat Engineering College, 6. and published by Jorhat Engineering College and Alumni Association, JEC.

## 2 .Dr. Sudarshan Patowary:

- Presently serving as the coordinator of TEQIP -III.
- Attended a short-term course on “Recent Advances in Construction Materials and Building technologies” organised by IIT Guwahati from 26th December -31st December 2020.
- Attended a workshop on “Innovation and Entrepreneurship: Creating a cultural ” organized by centre for innovation and future studies, AASC in collaboration with ASTEC on 20th February 2021.

*You can't build  
a great building  
on a weak  
foundation. You  
must have a  
solid foundation  
if you are going  
to have a strong  
superstructure.*

**-Gordon B. Hinckley**



# FACULTY ACTIVITIES

## 3. Dr. Dipjyoti Baglari:-

- Organized a theme-based webinar on National Education Policy (NEP-2020) on 25th February 2021 in collaboration with the University of Calcutta, India, under TEQIP-III, MHRD.
- A paper titled "Influence of receiver layout on active MASW survey conducted at different sites having varying substrata characteristics" authored by Taipodia, J., Dey, A. and Baglari, D. (2021) was published in Arabian Journal of Geosciences Vo. 14(12), 1-18.
- Attended an AICTE sponsored five-day faculty development program on "Research Methodology" organized by NIT Manipur held during 27-31 January, 2021.
- Attended a one-day workshop on "Aligning Engineering & Polytechnic Education in the line of National Education Policy, NEP 2020: Creating a road map for the state of Assam" organized by AEC in association with DTE, Assam on 12th November 2021.
- Attended a talk on "Industrial Consultancy & Research Projects" organized by AICTE on December 30, 2021.
- Appointed as Assistant officer-In-Charge for B.Tech 5th Semester Examination 2021 (March-April), BE 8th Semester Examination-2021 (July-Aug), BE 2nd and 4th Semester compartmental examinations-2021 (Aug-Sept).
- Appointed as Documents verifying officer for B.Tech admission 2021.
- Appointed a member of Construction monitoring committee of JIST.
- Delivered a presentation on "Academic Rules and Regulations" during the Induction program-2021 of B.Tech 1st Semester students.

## 4. Dr. Pranab Jyoti Barman:-

- Attended a short-term course on "Sustainable Ecosystem Restoration, Initiatives and Practices" held on 5th and 7th June organized by NIT Silchar.
- Attended a short-term course on "Recent Applications of CFD in Civil and Mechanical Engineering" organized by NIT Meghalaya during 6th to 10th December 2021.
- Appointed as In-charge of Waste Management and Pisciculture of JIST.
- Appointed as a member of Construction monitoring committee of JIST.
- Appointed as a member of Anti-Ragging Committee of JIST

*Failure is the  
oppurtunity to  
begin again  
more  
intelligently.*

**- Henry Ford**



# FACULTY ACTIVITIES

## 5 . Ms. Sudipta Sikha Saikia:

- Attended a one-day workshop on "Aligning Engineering and Polytechnic Education in the line of National Education Policy, NEP 2020 : Creating a Roadmap for the state of Assam " organized by AEC in association with DTE, Assam on 12th November 2021.
- A paper titled "Numerical Modelling of three tiered reinforced soil wall with different offset distance subjected to dynamic excitation" was published in Springer book 2020-21 Volume
- A paper titled "Numerical Model Study of Two-tiered reinforced soil retaining wall subjected to Dynamic Excitation" was included as a chapter in Proceedings of the Indian Geotechnical Conference 2019, Volume IV.

## 6. Ms. Deepika Taye:

- Attended a one-day webinar on "The importance of accreditation in Technical Education System" organised by Jorhat Engineering College on 7th Sept, 2021.
- Attended a one-day workshop on "Aligning Engineering & Polytechnic Education in the line of National Education Policy, NEP 2020: Creating a road map for the state of Assam" organized by AEC in association with DTE, Assam on 12th November 2021.

*Engineers like to solve problems. If there are no problems handily available, they will create their own problems.*





– Scott Adams



Civil Engineering Laboratories



## STUDENT ACTIVITIES & ACHIEVEMENTS


-  Bhaswat Kashyap, a student of 3rd Semester performed a workshop on “Machine Learning” organized by 1 Stop, IIT Kanpur held from 15th Jun, 2021 to 15th Aug, 2021.
-  Nipasa Deka, a student of 3rd Semester has been a co-writer of several anthologies. Some of her notable poems were published in “The Void”, “Epiphany”, “Storm”, “Euphoria”, “Give Me Wings”, “Crystal”, “Complicated”, “Prismatic”, “Imperfections”, “When life comes early” and “Metamorphose”.
-  Nipasa Deka, a student of 3rd Semester has been serving as the Executive Secretary of “The Dynamics”, an international non - profit organization established to teach STEM to underprivileged students globally.
-  Aparajita Das, a student of 3rd Semester has published her own book named “Beyond our Little Infinity” published by “The Little Booktique Hub, Kolkata”, ISBN:- 978-93-91380-88-5. Also, one of her poem named “ Have I Been Here Before?” published in the anthology “Déjà vu” by The Write Order in 2021.
-  Nirmol Goyari, a student of 7th Semester secured 1st position in discuss throw and 2nd position in shot put competition organized by Assam Science and Technology University held at NITS Mirza.
-  Haridarshan Borah, a student of 5th Semester attended a webinar on “World Environment Day and our duties and responsibilities in the current pandemic situation” organized by Gauhati University and Department of Environment and Forest, Government of Assam on 5th June, 2021.


***We Shape Our  
Buildings,  
Thereafter They  
Shape Us.***

**- Winston Churchill**





## ALUMNI SECTION

 Rudra Karmakar, an alumnus of 2020 batch is pursuing M.Tech from Indian Institute of Technology (Indian School of Mines), Dhanbad in Earthquake Science and Technology.


 Aishree Boruah, an alumnus of 2020 batch is pursuing M.Tech from IIT Hyderabad in Department of Climate Change.


 Nabajyoti Das, an alumnus of 2020 batch is pursuing MBA from IIM Bodh Gaya, Bihar.


 Swagat Patra, an alumnus of 2020 batch is pursuing M.Tech from NIT Warangal in Water Resources Engineering.


 Ankita Hazarika, an alumnus of 2020 batch is pursuing M.Tech from NIT Warangal in Environmental Engineering.


 Harmin Akhtar Laskar, an alumnus of 2020 batch is pursuing M.Tech from NIT Silchar in Water Resources Engineering.


 Jyotishman Mahanta, an alumnus of 2020 batch is pursuing M.Tech from NIT Silchar in Water Resources Engineering.


 Raktutpal Saikia, an alumnus of 2020 batch is pursuing M.Tech from Jorhat Engineering College.


 Abu Md. Sufian Lashkar, an alumnus of 2020 batch is working as Technical Officer in Jal Jeevan Mission under Public Health Engineering Department, Assam.

 Unnayan Pathak, an alumnus of 2020 batch is working as Technical Officer in Jal Jeevan Mission under Public Health Engineering Department, Assam.

 Bitupon Sonowal, an alumnus of 2020 batch is pursuing M.Tech from IIT Guwahati in Geotechnical Engineering.

 Nekibur Zaman, an alumnus of 2020 batch is pursuing M.Tech from Assam Engineering College, Guwahati.

 Eqbal Hassan, an alumnus of 2020 batch is pursuing M.Tech from NIT Warangal in Water Resources Engineering.

 Md Shahid Raja, an alumnus of 2021 is presently working as a freelancer design engineer

*Coming together is  
the Beginning.  
Keeping together is  
Progress. Working  
together is Success.*

**- Henry Ford**



# ALUMNUS MESSAGE



As I walk across the empty hall I look back, count my steps in this college, my sanctuary. I have walked this path many times but it's different every day. With each step, each sound.... I have here a memory, a laugh, a cry, a part of myself.

As I open the door, I pause for a moment, and I think to myself.... I'm going to start a new, a fresh, another beginning! JIST is a place of knowledge and bliss. It has provided me a wonderful environment and opportunity to learn and grow myself in every field. In JIST I have not only got the boost for studies but also for other curricular activities as well. I have got infinite love & support from my teachers at every step. They have encouraged me to polish my hidden talents in number of ways. JIST was not a college to me but it was like a Family and becoming a JISTIAN was one of the best decision. I am proud to be JISTIAN !



**Rudra Karmakar**

1st Batch of Civil Engineering, JIST  
2016-2020

*Genius is one  
percent  
inspiration and  
ninety nine  
percent  
perspiration.*  
- Thomas Edison



# PHOTO GALLERY

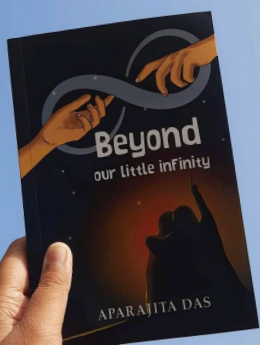
CIVIL ENGINEERING BATCH 2018-22  
JIST, JORHAT



**Faculty Members alongwith the students of 7th Semester**



**Artwork by Debojyoti  
Parashar  
(3rd Sem)**



**Book written by Aparajita  
Das  
(3rd Sem)**

CIVIL ENGINEERING BATCH 2019-23  
JIST, JORHAT

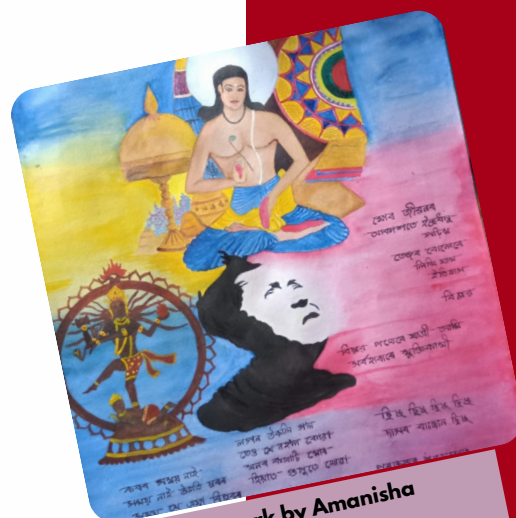


**Students of 5th Semester**

CIVIL ENGINEERING BATCH 2020-24  
JIST, JORHAT



**Students of 3rd Semester**



**Artwork by Amanisha  
Bora  
(3rd Sem)**

# EDITORIAL BOARD

## EDITOR



**Dr. Pranab Jyoti  
Barman**

Assistant Professor, CE

## ADVISORS



**Dr. Sudarshan Patowary**  
Assistant Professor & HOD, CE



**Dr. Dipjyoti Baglari**

Assistant Professor, CE

*"To write is  
human, to edit  
is divine."*

**-Stephen King**

## Student Editors



**Darshan Buragohain (7th Sem)**



**Haridarshan Borah (5th Sem)**



**Saikee Das (5th Sem)**