KUEngine

QUARTERLY NEWSLETTER OF

SCHOOL OF ENGINEERING & TECHNOLOGY

DR. KARTHIK KOVURI

DEAN

International Conference on Data-Driven AI (ICDDA 2024) at The Assam Kaziranga University

The Assam Kaziranga University hosted the prestigious International Conference on Data-Driven AI (ICDDA 2024), attracting luminaries, scholars, and AI enthusiasts. From March 14th to 17th, the conference offered a rich program encompassing keynote addresses, panel discussions, and research presentations, delving into the evolving landscape of AI and its societal implications

Top News

- "ICDDA 2024: AI's societal impacts explored through talks, panels, and research at Assam Kaziranga University, fostering collaboration".
- 3D Model competition platform that brings together talented designers, artists, and enthusiasts from around the different departments of SET.
- National Science Day celebration with the theme Indigenous Technology for Vikisit Bharat.
- Talentio: A competition for hunting talents among the students.
- MOU signed with the International Institute of Water.
- MOU signed with ICT Academy.
- MOU signed with Virtual Cyber Labs.

DR. SHWETAMBARA VERMA
HOD, CE

DR. BARNANA BARUAH
HOD,CSE

DR. ASHIM JYOTI GOGOI
HOD,ECE

DR. RISHABH DEV SHUKLA
HOD,EE

DR. RAMESH CHANDRA BORAH
**HOD,ME**

CIVIL ENGINEERING

JANUARY - MARCH 2024

- On the 31st of January, the Department of Civil Engineering conducted a thought-provoking and creative "3D MODEL COMPETITION", where the students of various departments exhibited their models and won exciting prizes.
- The faculty and staff of Civil Engineering have actively participated in Industrial Training and practice workshop from 26th February to 1st March
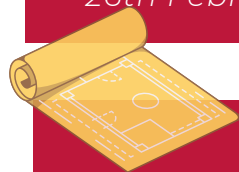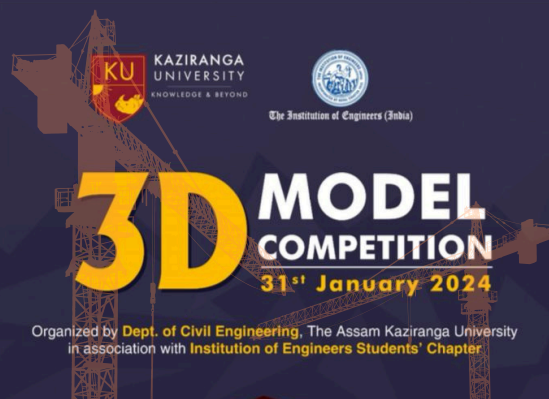
FEW Glimpses

MOU SIGNED:
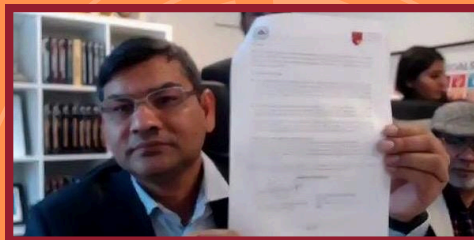
International Institute of Water & Assam Kaziranga University joins Forces for Collaborative Advancements

KAZIRANGA UNIVERSITY
KNOWLEDGE & BEYOND

The Institution of Engineers (India)

3D MODEL COMPETITION
31st January 2024

Organized by **Dept. of Civil Engineering**, The Assam Kaziranga University in association with **Institution of Engineers Students' Chapter**
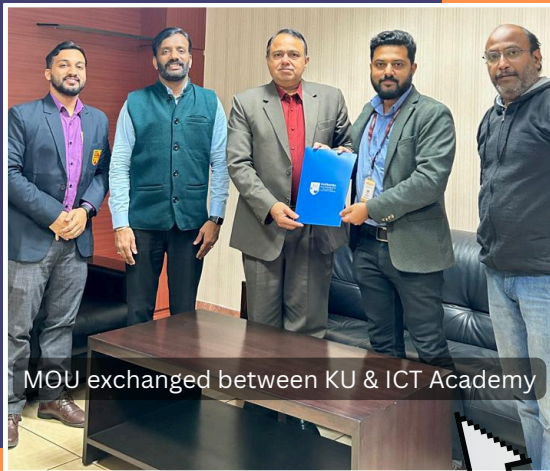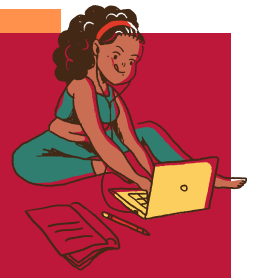
MOU exchanged between KU & ICT Academy

COMPUTER SCIENCE & ENGINEERING

JANUARY - MARCH 2024

**HIGHLIGHTS OF**

"INTERNATIONAL CONFERENCE ON DATA DRIVEN AI"

* *Keynote Address and Lead Talks by Eminent Professors*
* *Panel Discussion with Eminent Personalities*
* *Research Presentations by Students and Young Researchers in the areas like Foundations of Data Driven AI, Data driven Applications in Agriculture, Data Privacy, etc.*
* *Cultural Programme*
* *Networking sessions and many more*

- A hands-on session on 'Flowgorithm' was conducted by Dr. Shiladitya Munshi. The students of the School of Engineering & Technology & School of Computing Science have actively participated to enrich their skills in logic building, Flowcharts & Algorithm on 31st January.
- The second-semester students of the School of Engineering & Technology have exhibited their talent by showcasing the innovative posters prepared them, in the 'Poster Presentation' Competition, the first event of 'TALENTIO', a monthly activity to identify the talent among the students on the 9th February.
- The students of the School of Engineering & Technology & School of Computing Science have actively interacted with Ms. Sheary Tan, the founder of SurnX in the Skill development program conducted by GDSC on 26th February.
- Dr. Hridoy Jyoti Mahanta, a scientist of CSIR NEIST delivered an expert invited talk on the topic 'Interplay between Machine Learning & Chemoinformatics.
- International Conference on Data-Driven AI (ICDDA 2024) at The Assam Kaziranga University

FEW GLIMPSES

JAN2024-MAR2024
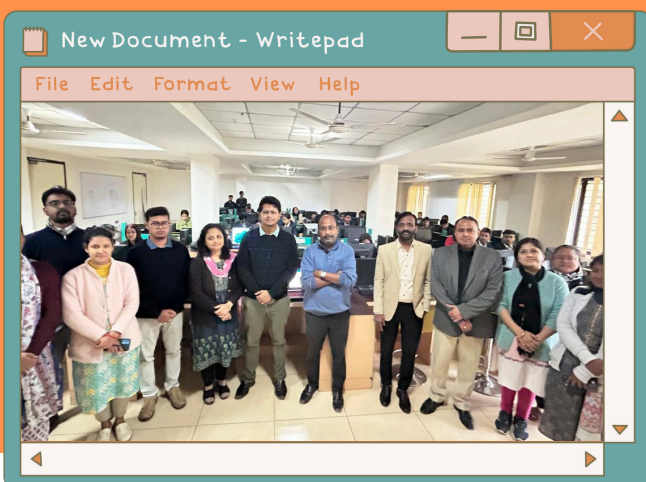
ELECTRONICS & COMMUNICATION *ENGINEERING*

JANUARY - MARCH 2024

- On 31st January, The department of Electronics and Communication Engineering conducted an online interactive session with Ms. Baishali Dihingia, Assistant Manager of APDCL, Jorhat.
- The department has inaugurated its first edition of department Wall Magazine "ELECTRONICA."

- On 1st March, the department of ECE organized laboratory training program for the students of Khelhoshe Polytechnic, Nagaland.
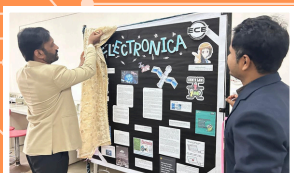

FEW *Glimpses*

ELECTRICAL *ENGINEERING*

JANUARY - MARCH 2024

- The Department of Electrical Engineering has inaugurated its second version of the departmental Wall Magazine on Jan 31, 2024 with the theme "ENERGY".


- The Department of Electrical Engineering organized a Technical Half Extempore Speech Competition for B.Tech students, guided by Er. Samir Kundu, a retired CGM of NRL. Participants delivered impromptu speeches on diverse technical topics, honing their communication skills and showcasing their technical expertise.

- The Department of Electronics and Communication Engineering hosted an expert talk on February 24th, 2024, featuring Dr. Tasher Ali Sheikh from Residential Girls' Polytechnic, Golaghat, Assam where he discussed "Challenges and Opportunities in MIMO Communications" with students from the ECE and EE departments. He also provided a foundational understanding of MIMO communications and highlighted career prospects in the field, making the session valuable for students' academic and professional growth.

- On the 28th of February, both departments celebrated National Science Day on the topic, "Indigenous Technologies for Vikisit Bharat". Dr. Swapnali Hazarika, Senior Principal Scientist & Head, Centre for Petroleum Research, CSIR NEIST graced the occasion as chief guest and distinguished speaker.
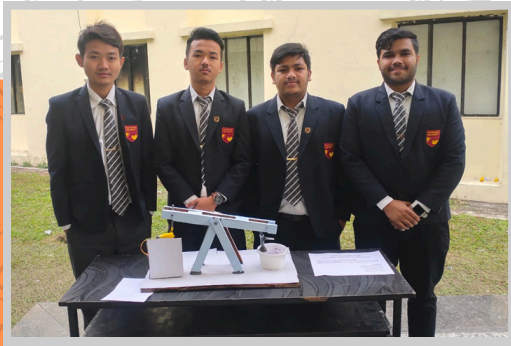
MECHANICAL ENGINEERING

JANUARY - MARCH 2024
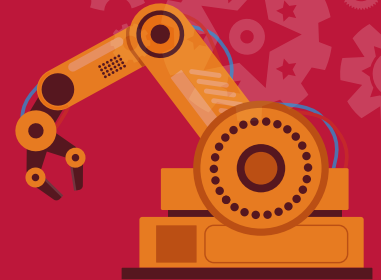
- On 16th February, Assam Kaziranga University's SAE club was inaugurated with Dr. Dipankar Neog as a guest speaker. The event focused on club objectives, student enthusiasm, and SAE's role in shaping future engineers.

- From 26th February to 2nd March, the Department of Mechanical Engineering has accompanied a Hands-on workshop for students of Khelhousie Polytechnic, Nagaland for the final year diploma students.

FEW Glimpses

- On 13th March, the department of ME arranged a program, 'Design Ideas – Innovation in Robotics for Disaster Response Venue of the Event: SE' meant for Inter-Department Competition, organized by Mechanical and Technology .
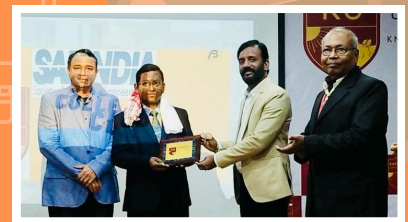
RESEARCH
ACTIVITIES

Intellectual
Achievements

PUBLICATIONS:

DR. BARNANA BARUAH

Privacy-Preserved COVID & Inter BAN Communication Status Maintenance with Key & Random Value Update in Blockchain, ICNSBT 2024 (SCOPUS).
Intrusion Detection System using Stacked Ensemble Learning with Light Gradient Boosting Machine and Decision Tree, ICNSBT 2024(SCOPUS)

DR. SHEWTAMBARA VERMA

MS. UPASANA KASHYAP

Dr. Shewtambara Verma participated in the International Water Conference and presented two of her research papers. Ms. Upasana Kashyap is the Co-Author for a research paper.

DR. ASHIM JYOTI GOGOI

Research paper titled "Solar Energy Driven and Multiple Sensor based Smart Wheelchair for Enhanced Mobility of Physically Handicapped Individuals" was accepted in the IEEE conference

DR. RAMESH CHANDRA BORAH

Published a research article on "Optimizing Solar Chimney Power Plants: Unveiling the Superiority of a Different Degrees Converging Chimney and Different Collector Configuration " in INTERNATIONAL JOURNAL OF NOVEL RESEARCH AND DEVELOPMENT (IJNRD)

BOOKS/ BOOK CHAPTERS:

MS. MOUSOOMI BORA

Python Programming, Artificial Intelligence from Pearson India Education Services Private Limited.

DR. KARTHIK KOVURI

Deep Neutral Networks for early diagnosis of Neuro Degenerative Diseases, IGI Global Publications.

DR. RUPAM BHAGAWATI

Dr. Rupam Bhagwati authored a book on "Quantum Synergy" which revolutionizes AI-quantum integration, advancing quantum technologies significantly. The book is co-authored by Dr. Karthik Kovuri.

PATENT:

Dr. Karthik Kovuri published a Patent on "Integrated Cooling system for high-temperature operation of electric vehicle fuel cells using deep learning approach" (202431017151).

Students
Achievements

- Dhurbajyoti Hazarika, Ujwal Thakur of B.Tech CSE 2nd semester participated and won prizes in Kshitij, Technical Symposium at IIT Kharagpur.

KU Wins against IIT!
First Place in EV Scooter Redesign & Runner-Up in B-Plan Contest at
IIT Kharagpur Techfest (Kshitij-2024)