COMPUTER SCIENCE ENGINEERING SOCIETY MAGAZINE



CODE ABODE

The department of Computer Science and Engineering Brings to You

code abode

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ABOUT THE DEPARTMENT

The Department of CSE at NITM has adequate facilities to support each activity needed for a batch of 40 students (per semester). It has a well-qualified and experienced faculty team consisting of 9 faculty members. The Computer Science & Engineering department makes every effort in imparting high-quality education to its motivated students. One of the aims of this department is to play the role of producing Computer Engineers ready to satisfy the needs of the Computer and IT world. The Department is also actively involved in various research activities.

The department also started its Mtech program from 2014 with an initial intake of 20. There is also a PhD programme under which research scholars are admitted twice a year.

Vision

Attaining global recognition in Computer Science & Engineering education, research and training to meet the growing needs of the industry and society.





Mission

- Imparting quality education through welldesigned curriculum in tune with the challenging software needs of the industry
- Providing state-of-art research facilities to generate knowledge and develop technologies in the thrust areas of Computer Science and Engineering.
- Developing linkages with world class organizations to strengthen industry-academia relationships for mutual benefit.

CODE ABODE

NIT Meghalaya

July to September, 2024

ABOUT THE DEPARTMENT

Program Educational Objectives (PEOs):

PEO1 Apply computer science theory blended with mathematics and engineering to model computing system.

PEO2 Design, implement, test and maintain software systems based on requirement specifications

PEO3 Communicate effectively with team members, engage in applying technologies and lead teams in industry.

PEO4 Assess the computing systems from the view point of quality, security, privacy, cost, utility, etiquette and ethics.

PEO5 Engage in lifelong learning, career enhancement and adapt to changing professional and societal needs.



Program Specific Outcomes (PSOs):

PSO1 The ability to understand, analyse and develop solution strategy towards problems in the areas related to algorithms, system software, machine learning, and Artificial Intelligence, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity.

PSO2 The ability to understand the evolutionary changes in computing, apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success, real world problems and meet the challenges of the future.

PSO3 The ability to employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learning and a zest for higher studies and also to act as a good citizen by inculcating in them moral values & ethics.



HODs CSE Department

08/01/2013 - 20/01/2014

DR. ALOK CHAKRABARTY

21/01/2014 - 19/01/2017

DR. RAJARSHI RAY

20/01/2017 - 30/06/2019

DR. DIPTENDU SINHA ROY 01/07/2019 - 07/08/2022

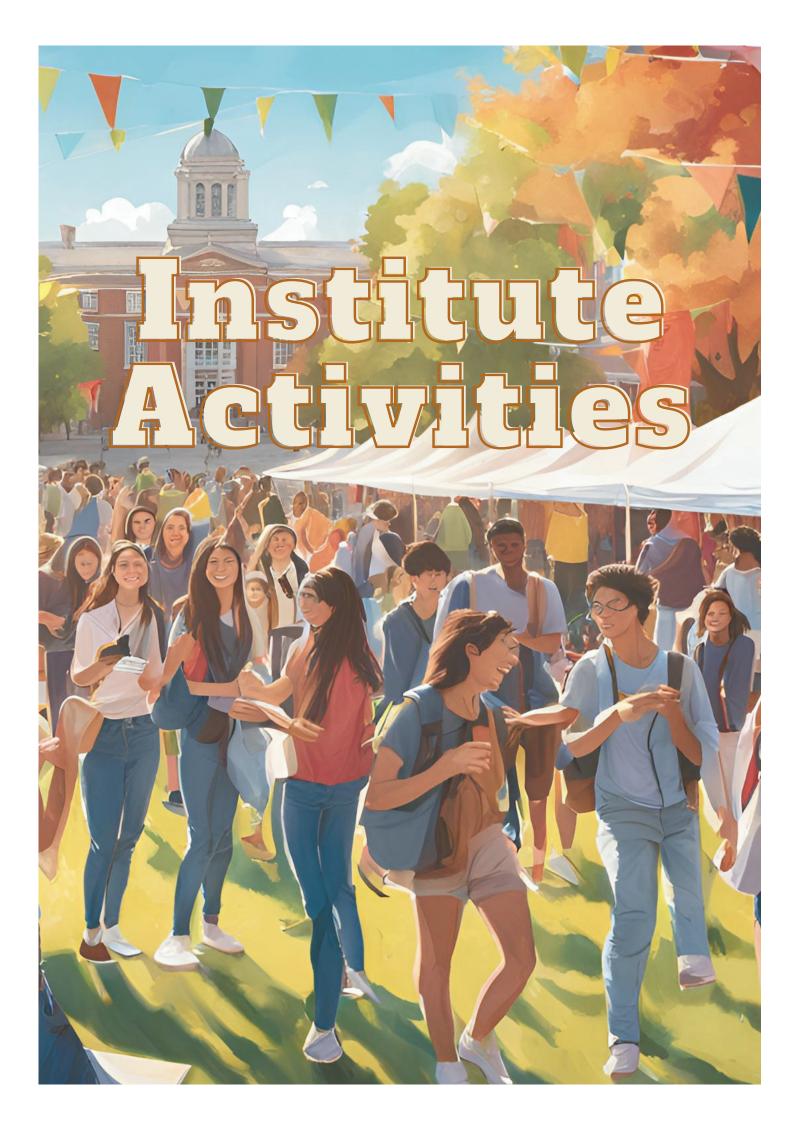
DR. YOGITA

08/08/2022 - 03/07/2024

DR. SURMILA THOKCHOM

04/07/2024

DR. DEEPAK KUMAR



Empowering Vision Through Touch: FourParty MoU Signed to Promote Learning for Visually Impaired Students Using DotPad

In a remarkable stride toward inclusive and technology-driven education, a Memorandum of Understanding (MoU) was recently signed among Dot Pad Inc., Seoul, Kellog University College, Oxford University, the Foundation for Innovation in Health, Kolkata, and the National Institute of Technology (NIT) Meghalaya.

The partnership seeks to empower visually students by introducing the impaired DotPad, an innovative tactile graphic display device that allows learners to visualize digital content, images, and through touch. diagrams This groundbreaking technology opens possibilities for accessibility, especially in Engineering and Mathematics where visual interpretation plays a critical role.

this collaboration, Through the institutions will jointly work on developing tactile learning content, training educators and students, and conducting research on inclusive pedagogical models. The initiative aims to build a sustainable framework for integrating tactile technologies education mainstream and promoting digital inclusion across learning environments.



Delegates from four institutions showcase the signed MoU for advancing inclusive education through DotPad.

Representatives from each organization expressed their shared vision of creating an academic ecosystem equitable technology bridges barriers rather than reinforces them. The MoU reflects collective commitment to innovation. accessibility, and empowerment - paving the way for a future in which every learner, regardless of ability, can explore and understand the world through touch and technology.

StudentFaculty Interaction during Induction Programme 2025



Students attending the Student- Faculty Interaction programme

The Department of Computer Science and Engineering organised. The Student-Faculty Interaction as part of the Induction Programme on 22nd August 2025 (Friday) from 10:00 am to 11:00 am. The freshers from B.Tech, M.Tech, and MCA were warmly welcomed by the faculty. The session started with an address by the head of the Department spoke about the importance, vision, and opportunities offered by the department. Faculty members then introduced themselves, explained their roles, shared their areas of expertise, and highlighted the academic and research opportunities available to students. The freshers were also informed about how



Student-Faculty Interaction during Induction Programme 2025

classes will be conducted through a mix of theory sessions, lab work, projects, and interactive discussions build tο both knowledge and practical skills. The interaction gave students a clear picture of the department's academic culture and the supportive environment provided for their growth. The session ended on a motivating note, encouraging students to take part in academics. research, co-curricular and activities to make the most of their journey in the department.



Students attending the Student- Faculty Interaction programme

South Korean Delegates of DotPad Technologies Meet CSE Faculty to Advance Curriculum for Visually Impaired Students

In an inspiring step toward inclusive education, a team of delegates from DotPad

Technologies, South Korea, recently visited the Department of Computer Science and Engineering (CSE) to discuss curriculum innovations tailored for visually impaired students.

The meeting brought together global expertise and local academic insight, with both sides united by a common goal—making computer science education truly accessible for all.

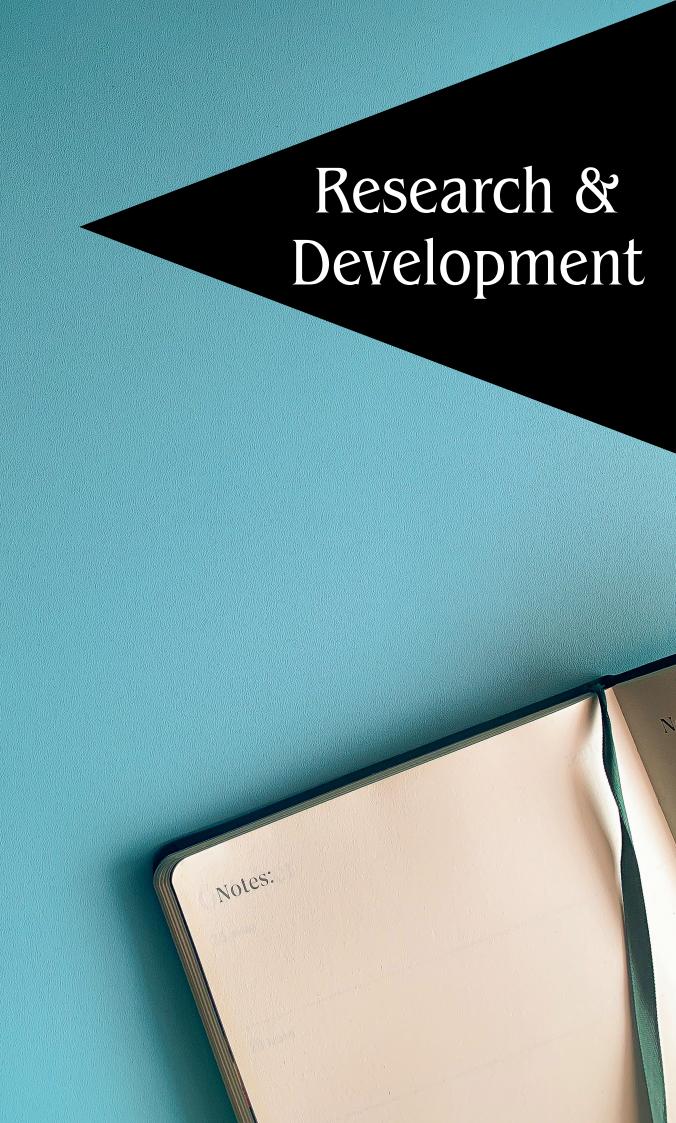
DotPad Technologies is internationally recognised for its groundbreaking work in refreshable braille displays and tactile graphic devices. During their visit, the delegates showcased how their technology has transformed learning experiences in universities abroad

Faculty members of the CSE department, in turn, shared the department's ongoing efforts and challenges in designing inclusive teaching methods for courses such as programming, algorithms, and systems design.

At the heart of the discussion was a shared commitment: ensuring that visually impaired students are not only able to access digital content but also equipped to compete on equal footing with their peers in the fast-evolving tech industry. Together, the two teams explored ways of embedding assistive technologies into the classroom, revising assessment models, and providing teachers with the necessary training to support inclusive pedagogy.

The CSE faculty welcomed the dialogue, noting that such international partnerships pave the way for research collaborations, pilot projects, and curriculum redesigns that could have long-lasting impact. The session concluded with an agreement to establish a joint working group that will design a practical roadmap for rolling out accessibility-driven initiatives in the coming academic year.

This exchange between South Korea and India stands as more than just an academic dialogue—it is a meaningful step toward building inclusive digital classrooms, where technology ensures no learner is left behind.



Journals

- Rabul Saikia, Sakshi Gupta, Anupam Sarma, Ngangbam Herojit Singh, Deepak Gupta, Muhammad Attique Khan, Ashit Kumar Dutta, Salam Shuleenda Devi, "MHAOSL-Net: A Global Context-Aware Attention Free Transformer Network With Orthogonal SoftMax Layer to Detect Subtypes of Acute Lymphoblastic Leukemia", International Journal of Imaging Systems and Technology, vol. 35, pp. e70189, 2025
- Dhirendra Prasad Yadav, Deepak Kumar, Anand Singh Jalal, Bhisham Sharma "Hyperspectral Image Denoising through Hybrid Spectral Transformer Network" in Advances in Space Research. ISSN 0273-1177, https://doi.org/10.1016/j.asr.2025.09.028
- Mercy Lalthangmawii, Thoudam Doren Singh, "Sentiment analysis of Mizo using lexical features in low resource based models", Natural Language Processing Journal (2025), 2949-7191, https://doi.org/10.1016/j.nlp.2025.100181

Conferences

 Deepak Kumar, Dhirendra Prasad Yadav, Kasturi Chakraborty "Spatial Cross Attention based Lightweight Deep Learning Model for Enhanced Tree classification in Satellite Images",4th International Conference for Advancement in Technology (ICONAT 2025), 19-21 September 2025

Book Chapter

 Hujon, A.V., Singh, T.D., Amitab, K. (2025). Leveraging Reinforcement Learning for Enhanced English-Khasi NMT in Low Resource Settings.
 In: Garg, L., Kesswani, N., Brigui, I. (eds) AI Technologies for Information Systems and Management Science. ISMS 2025. Lecture Notes in Networks and Systems, vol 1479. Springer, Cham. https://doi.org/10.1007/978-3-031-95017-9_38



Student Achievements

Ph. D Thesis Awarded



Name: Moirangthem Rabindra

Singh

Roll no: P19CS012

Supervisor: Dr. Surmila

Thokchom

Co-supervisor: Dr. Soumen

Moulik

Thesis title: Certificateless Schemes for Data Security in

IoMT System

ODE date: 18/07/2025

Name: Mr. Susovan Chanda

Roll no: P16CS001

Supervisor: Prof. Diptendu

Sinha Roy

Thesis title: Enhancing IoT

Security through

Context-Aware Deep Learning

and

Advanced Encryption

Techniques







Prof. Diptendu Sinha Roy Ph.D, BIT Mesra Professor & Dean (Research & Consultancy) Research Interest

Grid, Cloud and Distributed Systems, Data Analytics in Smart Grid Domain, Application of Soft and Evolutionary Computing, Software Reliability

Dr. Deepak Kumar Ph.D , NIT Meghalaya
Assistant Professor & HOD
Research Interest
Computational Mathematics, Digital
Signal Processing, Machine Learning





Dr. Akhilendra Pratap Singh, Ph.D, IIIT Allahabad

Assistant Professor

Research areas:

Blockchain Technology, Service Computing, Service Oriented Network Architecture, Localization and Routing in Wireless Sensor Networks, Semantic Web and Linked Open Data.



Dr. Surmila Thokchom Ph.D, NIT
Meghalaya
Assistant Professor
Research Interest
Security in Cloud computing, IoT, Smart
grid, Cryptography and Machine Learning

Dr. Diangarti Bhalang Tariang Ph. D,
IIT Kharagpur
Assistant Professor
Research Interest
Machine Learning, Deep Learning,
Generative AI, Multimedia Forensics,
Synthetic Media Forensics.





Dr. Ngangbam Herojit Singh PhD, NIT
Manipur
Assistant Professor
Research Interest
Mobile Robot Navigation, Artificial
Intelligence, Healthcare Applications,
Hybrid Intelligent System



Dr. Ningthoujam Johny Singh PhD,
IIIT Manipur
Assistant professor
Research Interest
Computer Vision, Machine Learning,
Deep Learning, Machine Translation
for low resource languages

Dr. Thoudam Doren Singh PhD,
Jadavpur University
Assistant professor
Research Interest
Human Language Technology,
Applied Machine Learning, Big Data,
Cloud Security, and Social Media
Analytics.





BTECH 2022-2026 Faculty Advisor DR. DEEPAK KUMAR



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Amartya Ghosh B22CS002



ROUNAK SAHA B22CS008



MOHD ASHAD ANSARI B22CS003



POTHULA APARNA B22CS009



BADURGARI RASOOL B22CS004



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MANISH PRASAD GUPTA B22CS007



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BINJRAJ SINGH B22CS023



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JELIYAN REANG B22CS024



AMAN SINGH RATHORE B22CS017



ETHANEAL MCKENZIE BASAIAWMOIT B22CS025



DESILGA K SANGMA B22CS018



PREM KUMAR GUPTA B22CS026



GURIJALA MEGHANA B22CS019



IOHHUN IKA LAMARE B22CS027



MEBANKER KHYRIEM B22CS020



THUMU RAKESH SRIKAR REDDY B22CS028



SIDDHANT PURKAYASTHA B22CS021



SAMIKSHA DEB B22CS029



SHEMBHA NYLLA PHIN B22CS030



SHIVESH KUMAR B22CS038



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Deijuhhi Dkhar B23CS010



Vignesh Sunil Patil B23CS005



Priyanshu Singh B23CS011



Ribait Phawa B23CS006



Koyel Kalita B23CS012



Indra Shikhar Sharma B23CS007



Erico N Marak B23CS013



Purushottam Thakur B23CS014



Kerborlang Khyriem B23CS023



Subrata Das B23CS015



Aibansansame Kharbani B23CS024



Komal Chaudhari B23CS016



Abhishek Kumar B23CS025



Shefali B23CS017



Rahul Das B23CS026



Mudhivarthi Bhanu Sri Manasa B23CS018



Navnit Sawarn B23CS027



Shashank Umar Vaishy B23CS019



Anish Jhajharia B23CS028



Chuncha Hemchand B23CS020



Shyam Pandey B23CS029



Shivam Pratap Singh B23CS021



Gladia Me Hi Wa E Ka Slong B23CS030



Bekkam Manohar Sai B23CSO22



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DERIME ARENGH B25CS007



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Upcoming Events



International Conference Intelligent Systems and Network Computing (ICISNC-2026)

(July 09-10, 2026) (Hybrid Mode)



Department of Computer Science and **Engineering National Institute of Technology** Meghalaya -793108, Meghalaya (INDIA)

International Conference on Intelligent **Systems** and **Network** Computing (ICISNC-2026)

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