

COMPUTER SCIENCE ENGINEERING SOCIETY MAGAZINE



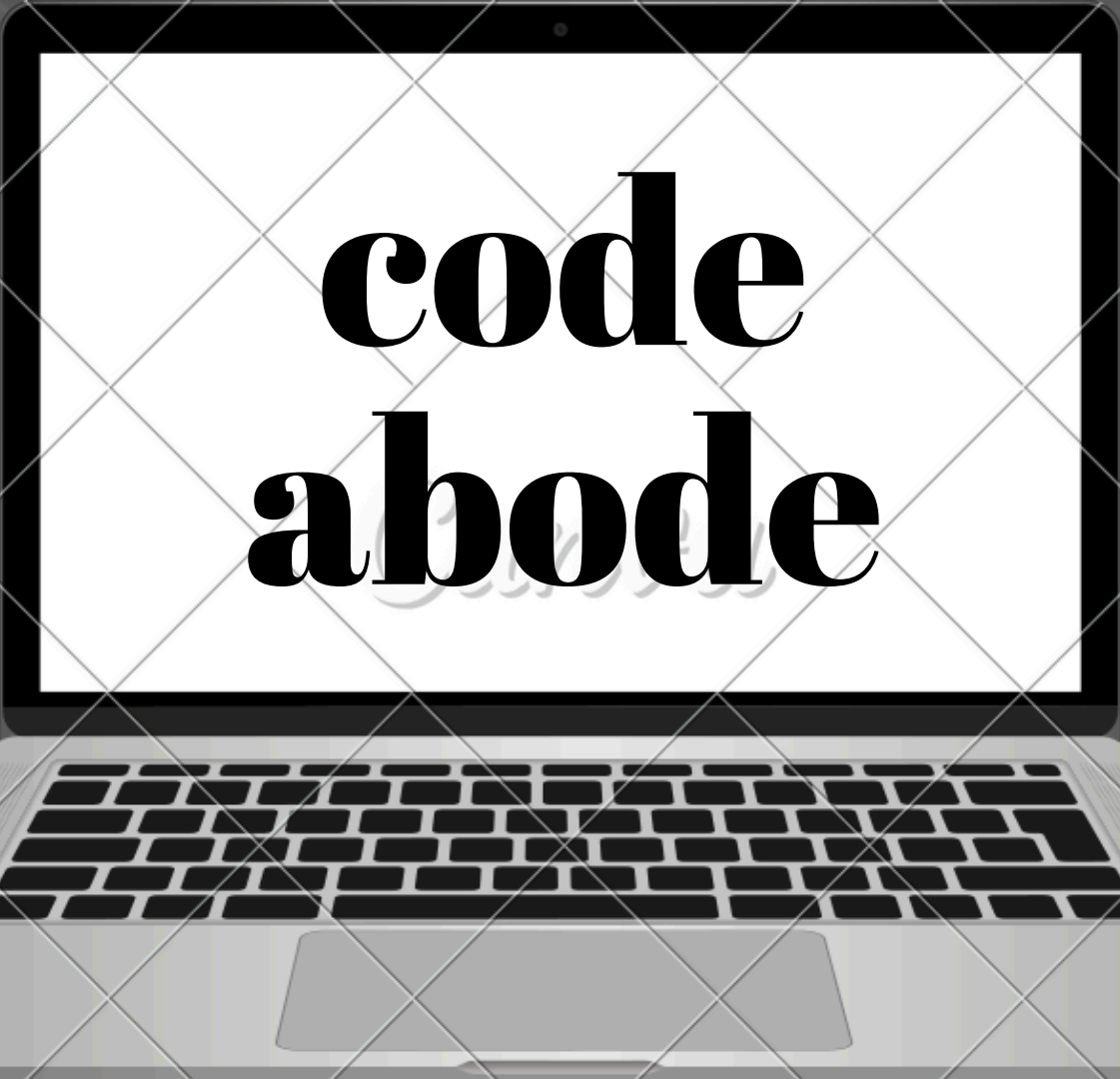
DEPARTMENT OF CSE, NIT MEGHALAYA

**JULY TO
DECEMBER
2024**

2nd Edition

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 30 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 well-designed 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.



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**

01/07/2019 - 07/08/2022

DR. YOGITA

21/01/2014 - 19/01/2017

**DR. RAJARSHI
RAY**

08/08/2022 - 03/07/2024

**DR. SURMILA
THOKCHOM**

20/01/2017 - 30/06/2019

**DR. DIPTENDU
SINHA ROY**

04/07/2024

**DR. DEEPAK
KUMAR**

Research & Development



Journals

- Abisek Dahal, Soumen Moulik, Rohan Mukherjee, “FeL-MAR: Federated learning based multi resident activity recognition in IoT enabled smart homes”, Elsevier Future Generation Computer Systems, Vol. 163, No. 107552, February 2025, DOI: 10.1016/j.future.2024.107552.
- Abisek Dahal, Soumen Moulik, “The Multi-Model Stacking and Ensemble Framework for Human Activity Recognition”, IEEE Sensors Letters, Vol. 8, No. 10, October 2024, DOI: 10.1109/LSENS.2024.3451960.
- Zhang, Qiaoyun, Chih-Yung Chang, Ming-Yang Su, Hsiang-Chuan Chang, and Diptendu Sinha Roy. "HMTV: hierarchical multimodal transformer for video highlight query on baseball." *Multimedia Systems* 30, no. 5 (2024): 285.
- Jiang, Wen-Dong, Chih-Yung Chang, Hsiang-Chuan Chang, and Diptendu Sinha Roy. "From explicit rules to implicit reasoning in an interpretable violence monitoring system." *arXiv preprint arXiv:2410.21991* (2024).
- Mohanty, Prasant Kumar, Sharmila Anand John Francis, Rabindra Kumar Barik, Diptendu Sinha Roy, and Manob Jyoti Saikia. "Leveraging Shapley Additive Explanations for Feature Selection in Ensemble Models for Diabetes Prediction." *Bioengineering* 11, no. 12 (2024): 1215.
- Jiang, Wen-Dong, Chih-Yung Chang, Show-Jane Yen, and Diptendu Sinha Roy. "Explaining the Unexplained: Revealing Hidden Correlations for Better Interpretability." *arXiv preprint arXiv:2412.01365* (2024).
- Reddy, K. Hemant Kumar, Manjula Gururaj Rao, Nihar Ranjan Pradhan, and Diptendu Sinha Roy. "An Energy Efficient Aware Collaborative Duty Cycling Approach for IoT Enabled Smart Industries." *IEEE Transactions on Industrial Informatics* (2024).
- Gupta, Chirag, Ramani Kumar Das, Rabindra K. Barik, Shahazad Niwazi Qurashi, Diptendu Sinha Roy, and Satyendra Singh Yadav. "GANACE: Generative Adversarial Network Assisted Channel Estimation for Unmanned Aerial Vehicles Empowered 5G and Beyond Wireless Networks." *IEEE Access* (2024).

Journals

- Jiang, Wen-Dong, Chih-Yung Chang, Hsiang-Chuan Chang, Ji-Yuan Chen, and Diptendu Sinha Roy. "Injecting Explainability and Lightweight Design into Weakly Supervised Video Anomaly Detection Systems." arXiv preprint arXiv:2412.20201 (2024).
- Parida, Nirupama, Bunil Kumar Balabantaray, Rajashree Nayak, and Jitendra Kumar Rout. "Price prediction using modified deep learning using VMD and optimized kernel ELM and LSTM." Intelligent Decision Technologies (2024): 18724981241302411.

Conferences

- Namrata G. Ambekar, Surmila Thokchom, "UL-VAE: An Unsupervised Learning Approach for Zero-day Malware Detection using Variational Autoencoder", IEEE International Conference on Computational Intelligence and Network Systems (CINS) 2024, BITS Pilani Dubai Campus in association with IEEE UAE Section during November 28-29, 2024.
- MD Jainul Abudin, Surmila Thokchom, Gayadhar Panda, " Data Interpolation for Mitigating False Data Injection Attacks in Smart Grid", IEEE TENCON 2024, December 1-4, 2024, Singapore
- Madhav Kumar, Santanu Borgohain, Kaibalya Prasad Panda, Surmila Thokchom, Gayadhar Panda, " Smart Solar Forecasting: Machine Learning Approaches for Predicting Solar Power", IEEE TENCON 2024, December 1-4, 2024, Singapore
- Namrata G. Ambekar, Surmila Thokchom, Soumen Moulik, "TC-AMD: Android Malware Detection through Transformer-CNN Hybrid Architecture", 2024 IEEE International conference on Advanced Networks and Telecommunications Systems (ANTS), IIT Guwahati, 15-18 December, 2024.
- N Nandini Devi, Saumitra Gangwar, Surmila Thokchom, "DL-DTCD: Deep Learning-Powered EV Location Prediction and Dynamic TOPSIS Charging Deployment", 2024 6th International Conference on Soft Computing and its Engineering Applications (icSoftComp2024) December 10-12, 2024 Thailand, Bangkok

Running Projects

- Design and Development of Intelligent Cyber Physical System for Prediction, Early Detection and Remote Monitoring of Alzheimer's Disease in Real-Time using Bio-Multifunctional Smart Wearable Sensors. Funded by Science and Engineering Research Board (SERB) at a total cost of ₹6111867/-

PI: Dr. Soumen Moulik, Computer Science & Engineering, NIT Meghalaya

Co-PI: Dr. Debasis Das, Computer Science & Engineering, IIT Jodhpur

Dr. Badal Soni, Computer Science & Engineering, NIT Silchar

- A Deep Learning Approach for Preservation of Cultural Heritage. Funded by SERB at a total cost of ₹23,91345/-

PI: Dr. Bunil Kumar Balabantaray, NIT Meghalaya

- Use of Artificial Intelligence and Deep Learning Methods to predict Pain outcomes after transforaminal nerve block (TENB) in patients of lumber spondylosis. MRU-AIIMS Raebareli ₹50000/-

PI: Dr. Bunil Kumar Balabantaray, NIT Meghalaya



Student
Achievements

Student Achievements

Ph. D Thesis Awarded

Mr. Vaibhav Tiwari (P21CS021) from the Department of Computer Science Engineering under the supervision of **Prof. Diptendu Sinha Roy** has been awarded Doctor of Philosophy for the thesis entitled “**AI-Driven Strategies for Edge Server Deployment in 5G Networks**” on 5th Oct 2024.



Ms. N. Nandini Devi (P19CS006) from the Department of Computer Science Engineering under the supervision of **Dr. Surmila Thokchom** has been awarded Doctor of Philosophy for the thesis entitled “**Addressing Concerns Related to Pricing, Data Privacy, and Operational Efficiency for Next-Generation Smart Energy Transactions**” on 29th Nov 2024.

Faculty Details





**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. Bunil Kumar Balabantaray, Ph.D. (NIT Rourkela)

Assistant Professor

Research Interest

Robotics , Image Processing, Biomedical Image Analysis and Cyber Security

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,
IIT Manipur

Assistant professor

Research Interest

Computer Vision, Machine Learning,
Deep Learning, Machine Translation
for low resource languages

Dr. Soumen Moulik Ph.D, IIT Kharagpur,
India

Assistant Professor

Research Interest

Wireless Personal/Body Area Networks
(MAC of IEEE 802.15.4, IEEE 802.15.6),
Wireless Sensor Networks, Internet of
Things, Machine Learning



Dr. Surmila Thokchom Ph.D, NIT
Meghalaya

Assistant Professor

Research Interest

Security in Cloud computing, IoT, Smart
grid, Cryptography and Machine Learning





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.



Student
Details

BTECH 2021-2025

Faculty Advisor

DR. AKHILENDRA PRATAP



**Anshu Das
B21CS001**



**Parthiv Das
B21CS002**



**Ananya Manohar
B21CS003**



**Freddy John Dkhar
B21CS004**



**Kishan Ranjan
B21CS005**



**Ankit Singh
B21CS006**



**Panga Sai Teja
B21CS008**



**Nangsan Pyrkhat Wanrieh
B21CS009**



**Willybert Mallai
B21CS010**



**Avinash Renukunta
B21CS011**



**Jayden Blah
B21CS013**



**Chebolu Sai Teja
B21CS014**



**Ankit Saini
B21CS015**



Aidan Ehbok Wankhar
B21CS016



Aditya Kumar
B21CS024



Bengi Warsaw R Sangma
B21CS017



Nitesh Singh
B21CS025



Shubhavi Kukreja
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Shreya Poddar
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Manish Kumar Dubey
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Koruprolu Bhagya Raju
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Faculty Advisor
DR. DEEPAK KUMAR



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MOHD ASHAD ANSARI
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POTHULA APARNA
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BADURGARI RASOOL
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MANADAPBIANG MAWLIEH
B22CS010



LAWANBANSHAN KUPAR LYNGDOH
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B22CS011



KAMPA RAMAKRISHNA
B22CS006



AVINASH KUMAR SINGH
B22CS012



MANISH PRASAD GUPTA
B22CS007



RITABRATA PAL
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ALVIN GARNET LANGSTIEH
B22CS014



KARIPIREDDY SURYA TEJA GOPAL REDDY
B22CS022



WAMESAMBIANG LALOO
B22CS015



BINJRAJ SINGH
B22CS023



PILLI SHANYU VEDA SESHU
B22CS016



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
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SAMIKSHA DEB
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SHIVESH KUMAR
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JAMES ANDERSON SUN
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ANJALI OJHA
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GUNNU LAVANYA
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Nancy Tinglalnei
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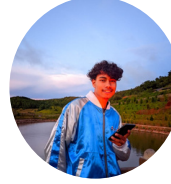
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Austin Joel Dympep
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Jishnu Duhan
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Aman Kumar
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Hiyashree Sarma
B23CS039

BTECH 2024-2028

Faculty Advisor

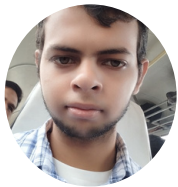
DR. NINGTHOUJAM JOHNY



MOHIT KUMAR PRASAD
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ARYAN SAHA
B24CS004



EMITRE KYNDIAH
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RISHAB MANKOTIA SYNJRI
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ROHIT DAS
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ALFRED HRIIZIIO CHACHEI
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KUNAL
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HOMERSON KHARMALKI
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B DHARUN
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ARPAN DAS GUPTA
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AKASH MALAKER
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The
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Pushpak Das
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Audrey Liza Nongrum
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Anushka Chaurasia
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Arindam Baidya
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Mhasivilie Sekhose
P24CS008



Shemphang Rynthathiang
P24CS011



Mughalu
P24CS009



Ericson Rani
P24CS012

Alumni Insights



“ JOURNEY FROM A STUDENT AT NITM TO IIT GUWAHATI ”



*Dr. Phrangboklang Lyngton
Thangkhiew,
Assistant Professor,
Department of CSE,
IIT Guwahati*

Greetings NIT Meghalaya!

"Technology is best when it brings people together"-Matt Mullenweg

As I reflect on my journey from NIT Meghalaya, where I pursued my PhD, to my current role as an Assistant Professor at IIT Guwahati, I am filled with immense gratitude and pride. NIT Meghalaya played a crucial role in shaping not only my academic path but also my perspective on research and innovation. The institute's supportive faculty, vibrant academic environment, and commitment to fostering curiosity created a foundation for my growth as a researcher and educator.

NIT Meghalaya is where I developed the skills, resilience, and knowledge that continue to guide me in my professional endeavors. I will always cherish the memories and the sense of community I experienced during my time there. It is heartening to see the institute continue its upward trajectory, nurturing the next generation of scholars and professionals.

I am proud to be an alumnus of NIT Meghalaya and look forward to its continued success and contributions to the world of education and research.

Thesis Title: Synthesis and Mapping of Boolean Function to Memristive Crossbar Array

Supervisor: Dr Kamalika Datta

Joining Date: July 29, 2015

Defended on : July 2, 2019

Convocation: September 28, 2019



As a child, I had a dream to build software that people use. I enrolled at NIT Meghalaya with the same dream. Now, 4 years later, the institute helped me fulfill it. The calm environment, engaging peer groups, supportive faculty, and vast opportunities that the institute provided us with were my foundation. I am thankful for the time I had at the institute.

Samuel Khongthaw
B20CS004



UPCOMING
EVENTS

COMING
SOON
Stay Tuned

Upcoming Events

Department of Computer Science and Engineering to Launch MCA Program Under NIMCET

The Department of Computer Science and Engineering (CSE) is planning to introduce the Master of Computer Applications (MCA) program, which will commence starting from next academic year. The program will be offered under the prestigious National Institute of Technology Master of Computer Applications Common Entrance Test (NIMCET) counseling, ensuring a standardized and high-quality curriculum. The admission into the MCA program is based on the rank obtained in NIMCET only.

5th International Conference on Intelligent Systems and Machine Learning is scheduled to organize by the Computer Science and Engineering Department during 16-17 May, 2025 at NIT Meghalaya

ICISML-2025
The 5th International Conference on Intelligent Systems and Machine Learning (ICISML-2025) is a leading event focused on the latest advancements in intelligent systems and machine learning. These technologies play a vital role in analysing vast amounts of data, aiding decision-making, and driving progress across various domains. By enabling machines to learn from data and perform human-like tasks, they facilitate the discovery of valuable insights and patterns. The conference provides a platform for researchers, practitioners, and industry experts to exchange knowledge, discuss challenges, and explore emerging trends in this dynamic field.

ABOUT NIT MEGHALAYA
The National Institute of Technology Meghalaya is one among the 31 NITs in India established under the NIT Act 2007 (Amended 2012) of the Parliament of India as Institutes of National Importance with full funding support from the Ministry of Education, Government of India. The Institute presently situated at Laitumkhrah, Shillong, India. The Institute has five Engineering Departments as Mechanical Engineering, Civil Engineering, Electrical Engineering, Electronics and Communication Engineering and Computer Science and Engineering. Since 2017, we are consistently maintaining our position in NIRF in top 100 institutes of India. In 2024, we are ranked at 68 by NIRF.

SHILLONG
Shillong is the capital city of Meghalaya and the District headquarter of East Khasi Hills. It is the only hill station in the country that is accessible from all sides. The name Shillong is derived from U-Shyllong, a powerful deity and is situated at an altitude of 1,491m above sea level. Shillong is very well connected by air (Guwahati and Umroi Airport), by road (NH, connecting Guwahati-Shillong and by railway station. NIT Meghalaya campus is located at about 35 km from Umroi airport, 120 km from Guwahati airport and about 97 km from Guwahati railway station.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
The Department of Computer Science & Engineering, NIT Meghalaya offers B. Tech degree in Computer Science and

Engineering discipline. This U.G Programme in Computer Science and Engineering is perhaps the most popular Programme in NIT Meghalaya, with an average intake of 30 students per year. The department has adequate facilities to support these teaching activities. It has a well-qualified and experienced faculty team. The Computer Science and Engineering department makes all efforts in imparting high-quality education to its highly motivated students. One of the aims of this department to play its 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.

FINANCE CHAIR
Dr. Diangarti Bhalang Tariang, CSE, NIT Meghalaya
Dr. Monika Mangla, Dwaradas J Sanghvi College of Engineering Mumbai

Information Brochure



5th International Conference on Intelligent Systems and Machine Learning (ICISML-2025)
(May 09-10, 2025) (Hybrid Mode)



Organized by
Department of Computer Science and Engineering
National Institute of Technology Meghalaya - 793003,
Meghalaya (INDIA)

PATRON
Prof. Pinakeswar Mahanta
Director, NIT Meghalaya

GENERAL CHAIRS
Dr. Ngangbam Herojit Singh, CSE, NIT Meghalaya
Dr. Sachin Nandan Mohanty, VIT Amaravati

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