

APRIL 2026

BYTE STREAM



COMPUTER SCIENCE AND ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY (ISM)
DHANBAD

MONTHLY NEWSLETTER

An Insight into the
Department of Computer
Science and Engineering,
IIT (ISM) Dhanbad



" Imagination is more
important than
knowledge. "

— Albert Einstein

OBSCURATHON 2.0

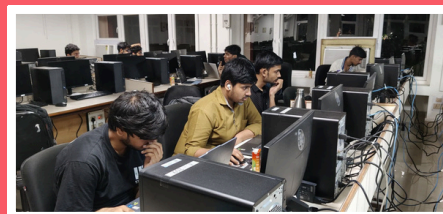
The CSE Society of IIT (ISM) Dhanbad successfully organized *Obscurathon 2.0*, a thrilling Jeopardy-style Capture The Flag (CTF) competition, on 19th April 2026. The event was conducted exclusively for students of the Computer Science and Engineering department and witnessed enthusiastic participation from several talented teams. Designed to test participants' problem-solving abilities, cybersecurity knowledge, logical thinking, and teamwork, the competition created an exciting and competitive atmosphere throughout the event.



Teams consisting of two to three members competed across multiple challenging rounds that involved cryptography, web exploitation, reverse engineering, and miscellaneous cybersecurity puzzles. The event was smoothly coordinated by the organizers from the CSE Society, ensuring fair gameplay and an engaging experience for all participants. Obscurathon 2.0 not only encouraged technical excellence but also promoted collaboration and innovation among students.

Team *Rehman TheHack* secured the **1st position**, with members Prav Prateek, Vishesh Sunhare, and Dibyanshu Sekhar Sahu delivering an outstanding performance. The **2nd position** was achieved by Team *welovpwn*, consisting of Rahul Joshi, Neelamber Mishra, and Nilay Choudhary. Team *YAR*, comprising Mohammad Abbas Mehdi, Yash Agarwal, and Ranish Garg, earned the **3rd position** for their commendable efforts.

The event concluded on a high note, leaving participants motivated and eager for future editions of Obscurathon.



Prof Amgoth Tarachand is elevated to Professor

Prof. Amgoth Tarachand has recently been elevated to the position of Professor in the Department of Computer Science & Engineering of IIT (ISM) Dhanbad, from his former position of Associate professor. He is a distinguished academican and research leader renowned for his pioneering work in Edge Intelligence, Fog-Cloud Continuum, and Wireless Sensor Networks. He has produced over 5000 citations and 14 Ph.D. scholars, several of whom now serve in global academic and industrial positions. His visionary contributions span funded projects exceeding ₹2 crore, cutting across domains like predictive maintenance, AI-enabled smart infrastructure, and solar-powered drone systems. He is also the Co-founder of AiThingX, a deep-tech startup at IIT Dhanbad, focused on AIoT innovation. Prof. Amgoth Tarachand's work has garnered international collaborations with leading institutions across Canada, Austria, France, Sweden, Finland, Estonia, and the UK. As a prolific author with more than 60 top-tier publications in IEEE, ACM, Elsevier, and Springer journals, he has earned recognition as one of the top 2% scientists globally by Stanford University. Beyond research, he has played strategic academic roles as course coordinator, conference organizer, expert speaker, and institutional leader, exemplifying a holistic academic portfolio that blends teaching, innovation, and impact. Congratulations to Professor Amgoth Tarachand for his new milestone and inspiring journey ahead!



Prof Jaishree Mayank's grant

With the emergence of advanced features in modern automobiles, the amount of information being transmitted through them is far too great for conventional networks. In safety-related applications, a matter of a few milliseconds can spell disaster.

Dr Jaishree, Assistant Professor at IIT (ISM) Dhanbad, has been awarded a ₹19 lakh grant for her research scheme. The aim of the research titled "Performance Optimisation Framework for Time-Sensitive Networking (TSN) for Next-Generation Automotive Systems" is to analyse the communication protocols used to ensure reliable data transfer with critical timing requirements in an automobile.

Current automobiles need to accommodate streams of data from camera feeds, radar, GPS signals, infotainment sources, and diagnostic systems, among others, competing for limited networking resources in the car. Dr Jaishree's framework combines the three essential functions of routing, scheduling, and resource allocation, and seeks to optimise them through the use of intelligent algorithms. The results will lead to reduced latencies, improved energy efficiencies, and better network performance while meeting the timing constraints.



APRIL 2026

Yaadein - Frames of Forever

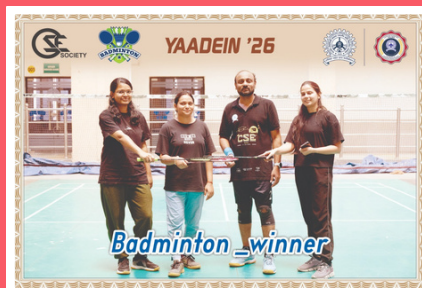
As the academic year draws to a close, the Final Year batch of Computer Science and Engineering, this season marks more than just the conclusion of a semester. **Yaadein'26** isn't just a farewell, it's a collection of the final few pages in a chapter that no one wants to end. To kick off the celebrations, a series of pre-events was hosted on 11th of April to pause time and celebrate the faces that made the ISM campus feel like home.

The event commenced with a high-energy badminton tournament. The courts were full of excitement and cheering, reflecting the strong friendship the batch has built over the years. A massive congratulations to our champions who dominated the court! We applaud **Puvvala Omprakash** and **Dilleshwar Chintada** for their stellar performance and great coordination. **Vijay Prem** and **A.R.S Vamsi** put up an exceptional fight, securing the spot as runners-up. Perna Kumari and Sonam emerged victorious as our Women's Champions.

The second event was all about creativity and teamwork. In the "Fruit Salad Fiesta", teams of three worked together to carve, design, and plate beautiful fruit masterpieces. It was amazing to see the seniors put down their laptops and use their imagination to turn simple fruits into works of art. Pallapalli Sai Mourya, Gande Bhargav and Lingampalli Harshit Reddy were declared the winners for their impressive carving skills.

The final pre-event was a sentimental walk down memory lane. The batch voted for their peers in various fun and relatable categories, celebrating the unique personalities that made those four years so special. The winners were honored with sashes during the main Yaadein'26 ceremony. This served as a heartfelt opportunity to celebrate the diverse traits of each student. Here are our "Walkdown" legends:

- **Certified Hero** - Prateush Chaturvedi
- **Memelord** - Nikhil Kumar
- **Network King** - Ram Krishna
- **Coding God** - Leela Sai
- **Supplier** - Shyam Sunder
- **Spotlight Queen** - Anjali Dahiya
- **Insta Queen** - Ishika Hoondlani
- **I Didn't Study** - Amber Khare
- **Sports Star** - Rishit Das
- **Talent** - Bitra Sri Pragna

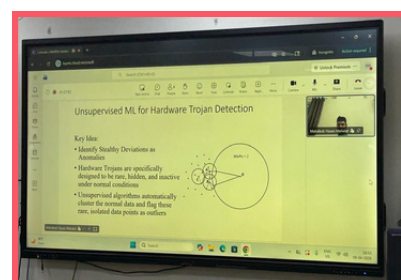


Anvesh: Invited talks 1. Security in the Era of AI

The Department of Computer Science & Engineering at IIT Dhanbad successfully hosted an invited talk on "Security in the Era of AI: Emerging Threats and Intelligent Countermeasures" on April 9, 2026, at the CSE Department.

The session drew enthusiastic participation from students, faculty members, and researchers, creating a vibrant atmosphere of learning and discussion. The talk offered valuable insights into balancing innovation with security in the rapidly evolving landscape of artificial intelligence. An engaging Q&A session followed, allowing participants to explore practical implications and future directions in AI security.

Dr. Mahabub Hasan Mahalat Has was warmly acknowledged for sharing his expertise and inspiring the audience with his thought-provoking perspectives. His contribution enriched the academic discourse and highlighted the importance of addressing emerging threats with intelligent countermeasures in the era of AI.



2. The Untapped Edge of AI

The Department of Computer Science & Engineering at IIT Dhanbad successfully hosted an invited talk on "The Untapped Edge of AI" on April 16, 2026, at the CSE Department.

The session saw enthusiastic participation from students, faculty members, and researchers, fostering a lively atmosphere of technical exploration and dialogue. The talk offered a detailed perspective on the evolution of artificial intelligence, tracing its journey from rule-based systems to transformer-driven architectures. It further highlighted the growing emphasis on data-centric approaches, scalable infrastructure, and the development of robust, trustworthy models to enable enterprise-grade transformation in real-world applications.

Ms. Hera Hassan from Deloitte was sincerely acknowledged for sharing her expertise and inspiring the audience with her insightful presentation. Her contribution enriched the academic discourse and encouraged participants to reflect on the untapped potential of AI in shaping future innovations.



APRIL 2026

Prof Pranav Bisht's foreign visit

The research paper written by Prof. Pranav Bisht with the collaboration of his team members- Nikhil Gupta, Prajakta Nimbhorkar, and Ilya Volkovich- has been accepted at the 17th Latin American Theoretical Informatics Symposium (LATIN 2026), a biennial conference on Theoretical Computer Science in Latin America. The conference took place from April 13- 17, 2026, at the Universidade Federal de Santa Catarina (UFSC) campus in Florianópolis, Brazil.

Prof. Bisht made a presentation of his paper on the second day of the conference, in a 20-minute talk. The paper, titled "Launching Identity Testing into (Bounded) Space," addresses the Polynomial Identity Testing (PIT) problem from the lens of space complexity, a rich area in computational complexity theory. Notably, the paper describes the development of the first logspace algorithm for the read-twice PIT problem for arithmetic formulas and introduces innovative concepts in connection with other arithmetic models.

In addition to the scientific presentations, the conference also had a vibrant intellectual atmosphere, hosting around 40 papers on Information Theory, Automata Theory, Graph Theory, Approximation Algorithms, etc. There were daily poster sessions as well, where students of UFSC presented their ongoing research work. An excursion on Day 3 gave the participants a chance to unwind and connect more informally.

For Prof. Bisht, the experience was as enriching personally as it was professionally. Florianópolis, a stunning coastal city known for its nearly 60 beaches and thriving surf culture, offered a memorable backdrop. The trip also opened doors for potential future research collaborations with peers and faculty encountered at the conference.



Computing Systems: Decentralised Optimisation in Power Systems

The Department of Computer Science & Engineering at IIT (ISM) Dhanbad hosted a research talk on Decentralised and Deregulated Optimisation: Applications in Power and Energy Industries on April 20, 2026, at the Seminar Hall of the CSE Department at 6 pm. Organized by the Special Interest Group on Computing Systems, the event featured guest speaker Dr. Shitikantha Dash, Research Fellow at the National University of Singapore. Dr. Dash, an alumnus of Biju Patnaik University of Technology, Rourkela, and IIT Ropar, shared insights from his academic journey and research experience, highlighting his expertise in electrical and computer engineering.

His talk focused on the role of decentralised optimisation in modern power and energy systems, emphasizing how deregulated frameworks can enhance efficiency, resilience, and sustainability in the industry. The session provided valuable perspectives on bridging theoretical models with practical applications, sparking discussions on the future of energy management. The event attracted faculty members, research scholars, and students, fostering an engaging exchange of ideas. The interactive atmosphere underscored the importance of interdisciplinary collaboration in addressing challenges in computing and energy systems.



Ph.D. Awarded

Awardee	Supervisor	Thesis Title
Prasad Velpula	Prof. Rajendra Pamula	Design and development of load balancing algorithms in cloud computing

Contact Us:

Prof Chiranjeev Kumar
Head of the Department
Email: cse@iitism.ac.in
Phone: +91-326-2235273 (O)

Credits:

Prof Nikhil Tripathi (Faculty Coordinator)
Meghana Merla (24JE0654)
Raj Priyadarshi (24JE0679)
Muskan Bibhuty (24JE0659)

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