

JULY 2025

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)



Computers are good at
following instructions,
but not at reading your
mind.”

— Donald Knuth

Welcome Aboard: A New Beginning at CSE, IIT (ISM) Dhanbad

This year, the starting rank for admission into our department through JEE Advanced stood at 2143. It's a reminder of the competitive spirit and academic excellence our branch attracts every year.

The Department of Computer Science and Engineering warmly welcomes all our new entrants, the incoming B.Tech, M.Tech, and Ph.D. scholars to IIT (ISM) Dhanbad. Starting a new journey at a place like IIT (ISM) can feel exciting, inspiring, and yes, a little overwhelming. But here at CSE, you're not alone. You're stepping into a close-knit and supportive community where learning goes hand in hand with curiosity, creativity, and connection.

Whether you're just beginning your undergraduate years, building expertise through a postgraduate program, or pursuing research at the highest level, you're now part of an environment that encourages growth, not just academically, but as a person. Outside the classroom, the Computer Science and Engineering Society (CSSES) brings the department to life. Throughout the year, CSSES organizes a variety of fun and engaging events from hackathons and coding competitions to interactive workshops and speaker sessions. These aren't just about tech; they're about meeting new people, working in teams, and learning together across years and backgrounds.

So as you settle in, take a deep breath, stay curious, and don't be afraid to try new things. There's a lot to discover here, and many people are eager to help you along the way.

We're thrilled to have you with us. You've earned your place in one of the most dynamic and sought-after corners of the institute.

Welcome to CSE. Welcome to IIT (ISM) Dhanbad.

Short Term (Faculty Development) Programme on "Blockchain and Cybersecurity for Cyber Threat Prevention"



A short-term course on "Blockchain and Cybersecurity for Cyber Threat Prevention" was organised at IIT (ISM) Dhanbad, held online, from July 7 to July 12, 2025. The course was organized under the Malaviya Mission Teacher Training Programme (MMTTP) coordinated by Prof. Arup Kumar Pal. The programme focused on two important technologies- Blockchain and Cybersecurity, that are becoming essential in the digital world with increasing dependence on online platforms.

This course was designed to help participants understand how Blockchain and Cybersecurity can work together to make digital systems more secure. The course included expert lectures as well as hands-on sessions to demonstrate practical applications of these technologies.

The inaugural session witnessed the presence of several eminent personalities, including Prof. Dheeraj Kumar, Deputy Director of IIT (ISM) Dhanbad; Prof. Minalini Pandey, Coordinator of MMTTP; Prof. Pratha Pratim Roy, Prof. Nikhil Tripathi; and Prof. Arup Kumar Pal, the course Coordinator. In his address, Prof. Arup Kumar Pal spoke about the rising need for Cybersecurity and Blockchain technologies in the current digital era. He emphasized the importance of developing secure systems to protect data and prevent cyber threats.

The course has received excellent participation from across the country, with 111 participants registered. Over the six days, they gained insights from experts from leading institutions in India and abroad. The course benefited teachers, researchers, and professionals looking to build stronger, more secure digital systems using Blockchain and Cryptography.

Orientation Session of M.Tech. & Ph.D.

The department hosted a joint orientation session to welcome the incoming M.Tech. CSE and AI&DS students alongside the newly admitted Ph.D. scholars. All faculty members from the Department of Computer Science and Engineering at IIT (ISM) Dhanbad were present. The session was formally addressed by Prof. Rajendra Pamula, who set the tone for the academic journey ahead. The event lasted for approximately one hour, concluding with a question-and-answer round led by HOD Prof. Chiranjeev Kumar, who extended a warm and heartfelt welcome to all attendees.



Held under the banner of "Legacy that Inspires the Future", the orientation introduced students to the rich heritage of IIT (ISM), its evolution since 1926, and its current standing as a premier institute ranked 15th by NIRF in Engineering.

Students were familiarized with the department's academic structure, including B.Tech., M.Tech., Dual Degree, and Ph.D. programs, along with admission processes via IIT-JEE and GATE. Faculty members and their diverse research specializations — ranging from AI/ML, cybersecurity, and blockchain to theoretical computer science and optimization — were highlighted to help students identify potential mentors and research directions.

The presentation also covered departmental committees like DPGC and DGRC, and introduced the vibrant CSE Society, with verticals like CodeISM, CSAI, SpeakUP, and BufferedReader, offering avenues for technical growth and community engagement. The session ended on a note of inspiration, encouraging students to embrace collaboration, curiosity, and excellence.



Farewell to Technical Superintendent, Mrs. Nirmala Rao

Mrs. Nirmala Rao has been a part of the IIT(ISM) Dhanbad family for more than three decades. She completed her schooling right here in Dhanbad, where her father worked in the Mechanical Department, and from an early age, she was drawn to computers and the excitement of new technologies.

Her journey with ISM began in 1989 as a trainee Computer Operator. In 1991, she joined the Computer Centre, then housed in the heritage building. Over the years, she took up many different roles — from lending her technical skills to the CAD Lab in the Mechanical Department, to handling academic work in the Chemistry Department, and later contributing to JRF admissions in the Academic Section. Eventually, she found her place in the Department of Computer Science and Engineering, where she became an indispensable part of the team. Whether it was maintaining hardware and research labs, setting up the department library, or assisting with faculty recruitment, her contributions were always meaningful and lasting.



Colleagues remember her not just for her work, but for her spirit. Prof. Chiranjeev Kumar, Head of the CSE Department, praised her for her pivotal role in successfully executing every task entrusted to her and her team. Prof. ACS. Rao recalled her constant curiosity for new technologies and research projects and her active role in the recent RAIT event. Prof. Rajendra Pamula highlighted her as a dependable figure in the department, appreciated for her involvement in both administrative matters and mentoring. The office staff spoke warmly of the close bond they shared with her, reflecting her approachable and supportive nature. Ms. Nirmala expressed deep pride in having contributed during the formative years of ISM's technological evolution, marking her legacy as both foundational and inspiring.



Her journey is also special because her husband, Dr. Dipankar Ray, served and retired from IIT (ISM) as Senior Programmer, as well — making their bond with the institute truly a legacy. The felicitation event was filled with warm memories and heartfelt gratitude, ending with the hope that she will continue to stay connected to the IIT (ISM) family even after retirement.

Writer's Pen

Sweetness in the air lingers,
 after the breezy caress.
 Outside, brighter than promises made
 to self that are yet to be held.

Grass seems greener on the other side,
 but lately I've watering mine.
 Soft whirl of life around me-
 I've been cherishing this time.

- Samriddhi Singh (24JE0685)

Contact Us:

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

Credits:

Prof Saurabh Srivastava (Faculty Coordinator)
 Sachin Rajguru (23JE0837)
 Jay Solanki (24JE0627)
 Mirthipati Krishna Balaji (22JE0573)
 Rahul Joshi (24JE0678)

Share your ideas, stories, or articles by mailing us at bufferedReader@iitism.ac.in

Follow Us:



@CSE_IITISM



@cse_iitism



@cse_iitism_dhanbad