



# भारतीय प्रौद्योगिकी संस्थान (भारतीय खनि विद्यापीठ), धनबाद Indian Institute of Technology (Indian School of Mines), Dhanbad

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## **PRESS-RELEASE**

### **Inaugural Session of 7-Day Bootcamp on “Foundations of Secure Communications Using Cryptography” Held at IIT (ISM)**

The Department of Computer Science & Engineering, IIT (ISM) Dhanbad, inaugurated a seven-day Bootcamp on “Foundations of Secure Communications Using Cryptography” today at the Seminar Hall of the Department. The bootcamp, scheduled from 12–18 February 2026, is sponsored by the ISEA Project Phase-III under the Ministry of Electronics and Information Technology (MeitY), Government of India.

The inaugural session was presided over by Prof. Chiranjeev Kumar, Head of the Department, CSE. Other faculty members of the Department, including Prof. Sachin Tripathi, under whose leadership the bootcamp is being organized and Shri Devendra Mani Tripathi, Assistant System Engineer, Computer Centre, IIT (ISM) were also present during the occasion.

Addressing the participants, Prof. Chiranjeev Kumar highlighted the broader objective of organizing such programs in view of the rapidly evolving cybersecurity landscape and increasing security threats. He emphasized the importance of developing skilled manpower capable of addressing emerging digital security challenges and contributing to a safer cyber ecosystem.

Prof. Sachin Tripathi elaborated on the vision of MeitY under the ISEA Phase-III initiative, stating that the core objective of the bootcamp is to generate skilled human resources in cybersecurity, along with promoting awareness, capacity building, and research. He informed that the response to the program was overwhelming, with 191 applications received, out of which 63 participants were selected. “Our major emphasis will not be confined to theoretical sessions; rather, the bootcamp will focus extensively on hands-on learning. The primary target will be cryptography, which is one of the most useful technologies for cybersecurity. We will also focus on data security as well as network security during the camp,” he said.

The first day commenced with registration followed by the inaugural function. The academic sessions began with a lecture by Prof. Sachin Tripathi on the basics of cryptography, followed by a hands-on session introducing participants to hardware platforms.

Over the next six days, the bootcamp will cover topics such as RSA and common attacks, Advanced Encryption Standard (AES), hash functions, digital signatures, secure communications, packet capturing, server logs, SOC rules, web application vulnerabilities, denial-of-service attacks, and security tools including Wireshark, Burp Suite, and Kali Linux. A Capture the Flag (CTF) contest is also scheduled on the concluding day to test participants’ practical skills.

The bootcamp aims to equip students with strong foundations in cryptographic algorithms, secure system design, and practical cybersecurity skills, preparing them for advanced research and industry roles in secure communications.

Sources

Rajni Singh  
**Dean (Corporate Communications)**