

Report on Short-Term Course
On
Underlying Mathematics and Applications of Cryptographic Techniques
Date 27.01.2026 to 31.01.2026

Students and faculty members of Department of BCA, Guru Nanak College, Dhanbad, attended a short-term course on *Underlying Mathematics and Applications of Cryptographic Techniques* organized by the Department of Computer Science, IIT (ISM) Dhanbad from 27th to 31st January 2026. A total of 12 BCA students, along with faculty members Ms. Soni Kumari and Ms. Priyanka Kumari, actively took part in this academic training program.

The course provided valuable exposure to the mathematical foundations of cryptography and covered important topics such as Number Theory fundamentals, Integer Factorization based cryptography, Discrete Logarithm methods, Elliptic Curve Cryptography, Post-Quantum Cryptography, and practical applications of cryptographic techniques.

Participation in this program enriched the knowledge of both students and faculty members. It enhanced students' understanding of secure communication systems and advanced cryptographic approaches, while faculty members gained insights that will further strengthen classroom teaching and student mentoring. This collaborative learning experience reflects the college's commitment to academic excellence and industry-relevant skill development.

List of students who attended the programme from Session 2024-27

- Shubham Kumar
- Vikash Paramanik
- Nandini Kumari
- Jasmine Priyadarshini
- Ankita Kumari

- Ashish Ranjan Sinha
- Aishwarya Singh
- Anushka Mishra
- Faizan Alam
- Sneha Kumari
- Bhumi Mishra

Pictures:





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**Short-Term Course on Underlying Mathematics and Some
Applications of Cryptographic Techniques**
27-31 January 2026

CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/914891

This is to certify that Mr/Ms/Dr Aishwarya Singh
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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DHANBAD - 826004, JHARKHAND, INDIA



Arup

Prof. Arup Kumar Pal
Programme Coordinator



Issued Date 31-01-2026



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/680721

This is to certify that Mr/Ms/Dr Ankita Kumari
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of
Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer
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Issued Date 02-02-2026



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/218220

This is to certify that Mr/Ms/Dr Anushka Mishra
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, *Indian Institute of Technology (Indian School of Mines) Dhanbad*, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/219129

This is to certify that Mr/Ms/Dr _____ Ashish Ranjan Sinha
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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27-31 January 2026

CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/106539

This is to certify that Mr/Ms/Dr _____ **Bhumi Mishra**
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/848535

This is to certify that Mr/Ms/Dr Faizan Alam
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/443541

This is to certify that Mr/Ms/Dr _____ Jasmine Priyadarshi
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/989777

This is to certify that Mr/Ms/Dr _____ Kumari Sneha Rani
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, *Indian Institute of Technology (Indian School of Mines) Dhanbad*, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/337740

This is to certify that Mr/Ms/Dr _____ Nandini Kumari
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, *Indian Institute of Technology (Indian School of Mines) Dhanbad*, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/809324

This is to certify that Mr/Ms/Dr _____ Sanskriti Kumari
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, Indian Institute of Technology (Indian School of Mines) Dhanbad, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/015378

This is to certify that Mr/Ms/Dr _____ Shubham Kumar
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, *Indian Institute of Technology (Indian School of Mines) Dhanbad*, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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CERTIFICATE OF PARTICIPATION

CertificateNo ISEA/STC/CRYPT/2026/014103

This is to certify that Mr/Ms/Dr Vikash Pramanik
has participated in the *Short-Term Course on Underlying Mathematics and Some Applications of Cryptographic Techniques*, organized during 27-31 January 2026, in the Department of Computer Science and Engineering, *Indian Institute of Technology (Indian School of Mines) Dhanbad*, India, sponsored by the Ministry of Electronics and Information Technology (MeitY), Govt. of India, under the ISEA Project (Phase-III).



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