FACULTY DETAILS PROFORMA

Title	Mr.	First Name	Dheeraj	Last Name	Singh	Photograph



Designation		Assistant Professor
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Educational Qualifications:

Degree	Institution	Year
Ph.D. (Thesis Submitted)	University of Delhi, Delhi.	Thesis Submitted
M.Phil.	University of Delhi, Delhi.	2018
M.Sc. (Pure Maths)	Kirorimal College, University of Delhi, Delhi.	2015
B.Sc. (Non-Medical)	I.B. (P.G.) College Panipat, Kurukshetra University Kurukshetra, Haryana.	2013
12th (PCM)	G.S.S.I.C. Bilsanda, Pilibhit (UP Board)	2010

Career Profile

NA

Administrative Assignments

Member of Purchase Committee

Areas of Research Interest / Specialization

Design and Analysis of Lightweight Block Ciphers, Irreducible Polynomials (over Finite Fields) and their applications in Cryptography.

Papers Taught

Group Theory, Ring Theory, Linear Algebra and Cryptography

Research Guidance

NA

Publications Profile

1. Singh, D., Kumar, M., & Yadav, T., RAZOR: A Lightweight Block Cipher for Security in IoT, *Defence Science Journal* (SCIE), Defence Scientific Information and Documentation Centre, Vol. 74, January 2024.
2. Singh, D., Kumar, M., Yadav, T., & Kumar, S., Security Analysis of Lightweight Block Ciphers ANU-II and LiCi. *Boletim da Sociedade Paranaense De Matemática* (ESCI), Sociedade Paranaense de Matemática, Vol. 44, December 2025.
3. Singh, D., Kumar, M., Yadav, T., & Kumar, S., MILP-based Differential Cryptanalysis of RAGHAV. *Boletim Da Sociedade Paranaense De Matemática* (ESCI), Sociedade Paranaense de Matemática, Vol. 44, April 2026.

Paper Presentations

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1. Presented the paper entitled: 'RAZOR: A Lightweight Block Cipher for Security in IoT' in the National conference, COIST-2025, organized by Department of Basic Science and Humanities, Gaya College of Engineering, Gaya in collaboration with Bihar Council on Science and Technology, DSTTE, Govt. of Bihar during September 12-13, 2025, at Gaya College of Engineering, Gaya, Bihar, India (Online).
2. Presented the paper entitled: 'Security Analysis of Lightweight Block Ciphers ANU-II and LiCi' in the International conference, ICGAMS-2025, organized by Department of Mathematics, Bioinformatics, and Computer Applications, Maulana Azad National Institute of Technology Bhopal, India. September 25-27, 2025 (Online).

Research Projects (Major Grants/Research Collaboration)

NA

Awards and Distinctions

Qualified: CSIR-UGC NET-JRF (Mathematics), December 2017.
Qualified: GATE (Mathematics), March 2019.

Association with Professional Bodies

NA

Other Activities

Conference/Workshop Attended:-

1. National Conference on Algebra, Analysis, Coding and Cryptography organized by the Department of Mathematics, University of Delhi, Delhi during 14-15 October 2016.
2. International Workshop on Recent Advances in Operator Semigroups held at the Department of Mathematics, University of Delhi, Delhi during 18-21 December, 2017.
3. National Workshop on Groups and Geometry organized by the Department of Mathematics, Shyama Prasad Mukherji College for Women's (DU) in Collaboration with The IMC during 2-3 August, 2019.
4. International Webinar on Fundamental Mathematics" organized by Department of Mathematics, the Assam Kaziranga University, Jorhat, Assam, India in association with Gonit Sora from 12th August to 12th August 2020.
5. International Webinar on Cryptography organized by the Department of Statics, West Bengal State University, ISI & TCG & CREST.
6. One week Faculty Development Programme on Managing Online Classes: Teaching Learning Tools and e-Content Generation organized by Bharati College, University of Delhi in collaboration with Mahatma Hansraj Faculty Development Centre Hansraj College, University of Delhi from (17-22 August, 2020).
7. On week Faculty Development Programme (online) on Cryptography and Information Security from 10 -16 July, 2025, under Malaviya Mission Teacher Training Programme (MM-TTP), University Grants Commission (UGC) organized by Mahatma Hansraj Malaviya Mission Teacher Training Centre (MH-MMTTC), Hansraj College, University of Delhi in collaboration with Department of Mathematics, Hansraj College.
8. One week Faculty Development Programme on Indian Astronomy organized by Indian Knowledge System (IKS) Division of Ministry Education, Govt. of India, New Delhi in collaboration with Aryabhatta College, University of Delhi from 16-22 February, 2026.