

**National Conference on
MATHEMATICAL ANALYSIS AND APPLICATIONS
(NCMAA-2025)**

**Organized by
Department of Mathematics & Computing
IIT(ISM), Dhanbad
SEPTEMBER 04 - 06, 2025**

REGISTRATION FORM

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Prof. Prem Vrat
Chairman GC & EB, IIT (ISM) Dhanbad

PATRON

Prof. Sukumar Mishra
Director, IIT (ISM) Dhanbad

ORGANIZING COMMITTEE

All faculty members of the Department of
Mathematics and Computing, Indian Institute of
Technology (Indian School of Mines) Dhanbad

INVITED SPEAKERS (TENTATIVE)

Prof. (Retd.). B. N. Mandal, FNASc, ISI Kolkata
Prof. (Retd.). Ajay Kumar, FNASc, University of Delhi
Prof. R. K. Upadhyay, FNASc, IIT (ISM) Dhanbad
Prof. R. Radha, IIT Madras
Prof. P. K. Ratna Kumar, HRI, Allahabad
Prof. Biswaranjan Behera, ISI Kolkata
Prof. S. K. Upadhyay, IIT (BHU) Varanasi
Prof. Sivananthan Sampath, IIT Delhi
Prof. Aparajita Dasgupta, IIT Delhi
Prof. Sanjoy Pusti, IIT Bombay
Prof. Uday Singh, IIT Roorkee
Prof. D. Venku Naidu, IIT Hyderabad
Prof. Niraj Kumar Shukla, IIT Indore
Prof. Amit Kumar Verma, IIT Patna
Prof. P Devaraj, IISER, Thiruvananthapuram
Prof. Pankaj Jain, South Asian University, Delhi
Prof. Arun Pal Singh, University of Delhi
Prof. Ashish Pathak, ISc BHU Varanasi

BOARDING & LODGING

Boarding and lodging will be provided by the
organizers. Accommodation will be provided to all the
outstation participants in the student hostel of the
institute. Those who want to stay in the IIT (ISM) guest
house need to pay as per the rules, subject to
availability.

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(NCMAA-2025)**

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Convener

Prof. Akhilesh Prasad

Mobile No.: 9431711231 / 7061999090

E-mail: aprasad@iitism.ac.in

Co- convener & Organizing Secretary

Prof. A. Antony Selvan

Mobile No.: 6291016709

E-mail: antony@iitism.ac.in



**Organized by
Department Of Mathematics & Computing
Indian Institute of Technology
(Indian School of Mines)
Dhanbad-826 004
Jharkhand, India**

INTRODUCTION

Mathematical analysis, in the broad sense of the term, includes a very large part of mathematics. It includes differential calculus; integral calculus; the theory of functions of a real variable; the theory of functions of a complex variable; approximation theory; the theory of ordinary differential equations; the theory of partial differential equations; the theory of integral equations; differential geometry; variational calculus; functional analysis; harmonic analysis; and certain other mathematical disciplines. Modern number theory and probability theory use and develop methods of mathematical analysis.

Nevertheless, the term "mathematical analysis" is often used as a name for the foundations of mathematical analysis, which unifies the theory of real numbers, the theory of limits, the theory of series, differential and integral calculus, and their immediate applications such as the theory of maxima and minima, the theory of implicit functions, Fourier series, and Fourier integrals.

ABOUT THE CONFERENCE/OBJECTIVES

The National Conference on Mathematical Analysis and Applications brings together researchers, scholars, and scientists to share ideas and recent developments in Mathematical Analysis and its applications. The event features expert lectures, promoting interdisciplinary dialogue and collaboration, especially among young researchers. Participants will explore the role of mathematics in addressing real-world challenges across science, technology, and industry. The conference fosters innovation, knowledge exchange, and future research directions in both pure and applied mathematics. It aims to strengthen the mathematical community and encourage impactful, collaborative research.

TOPICS OF INTEREST INCLUDE:

Integral Transforms, Fourier Analysis, Sobolev Spaces, Approximation Theory, Frame Theory, Pseudo-Differential Operators, Signal and Image Processing, Wavelet Analysis, Heisenberg Group, Distributions, Elliptic Equations, etc.

ELIGIBILITY CRITERIA

The programme is aimed at mathematics, science and engineering scholars, faculty & scientists who wish to gain a basic understanding of the concepts involved and advanced tools of topics.

REGISTRATION FEE

The following registration fee includes kit, working lunch, tea & snacks on all the three days (with no accommodation)

For Faculty Rs. 3500/-

Research Scholars and PG Students Rs. 3000/-

The following registration fee includes kit, breakfast, working lunch, tea & snacks, dinner, and Accommodation, on all the three days

For Faculty Rs. 5000/-

Research Scholars and PG Students Rs. 4000/-

Industry and R&D Organizations Rs. 6000/-

The details for online transaction (for releasing amount through e-payment):

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Select Payment Category: Conference/Course fee

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Note: The filled in registration form along with the copy of e-payment transaction details and abstract (word file) for paper presentation should be sent to Convener/Co-convener of conference through e-mail latest by August 15, 2025. Moreover, indicate your name and account holder's name when submitting a payment.

Subject to availability of funds, participants may be reimbursed III AC/Sleeper train fare from the place of work to Dhanbad and back.

ABOUT THE DEPARTMENT

The Department of Mathematics and Computing at IIT(ISM) Dhanbad has its roots in the establishment and evolution of the institute itself. Over the decades, the institution has expanded its academic offerings, and our Department is one of the key departments that emerged as part of the institute's broader academic growth.

Presently, the department is home to 32 faculty members, engaged in a wide array of research fields including Applied Mathematics, Pure Mathematics, Statistics, and Computer & Data Science. Our research efforts are supported and recognized by prominent national funding agencies such as CSIR, NBHM, DRDO, ISRO, SERB and DST.

The department offers the programs such as B. Tech (Mathematics & Computing), Integrated M. Tech (Mathematics & Computing), M. Sc (Mathematics & Computing) and M. Tech (Data Analytics). In addition, the department also offers a Ph.D. program in Mathematics and Statistics. Currently, over 100 Ph.D. students are engaged in research at the department.

ABOUT THE INSTITUTE

Indian Institute of Technology (Indian School of Mines) is a fully residential technical institute having all modern amenities located in the mineral-rich belt of India in the city of Dhanbad, Jharkhand. It was established in 1926 on the lines of the Royal School of Mines, London. It is a technical institute of international acclaim offering a host of programmes like B. Tech, M. Tech, M. Sc., M. Sc. Tech, B.S., M.S. and MBA. It also offers Ph.D. programmes. The institute admits students through IIT-JEE, JAM, and GATE/NET Exam in respective programmes.

HOW TO REACH IIT (ISM), DHANBAD

By Train: Nearest railway station – Dhanbad Junction (Around 2.5 KM).

By Air: Nearest Airport- Kazi Nazrul Islam Air Port, Durgapur (95 KM)/ Netaji Subhash Chandra Bose International Air Port, Kolkata (270 KM).