

Second International Conference
on
Exploring Advances in Mathematical Sciences
(SICEAMS-2024)



In Hybrid Mode
19-20th December, 2024



Organized by
Department of Mathematics
University of Gour Banga,
Malda-732103, West Bengal, India

University of Gour Banga

University of Gour Banga (UGB) is situated amidst rural settings in the state of West Bengal, Pin-732103, India. The University of Gour Banga is approved under the UGC Section 2(F) and 12(B) of the UGC Act, 1956. At present the University is fully funded by the Govt. of West Bengal. Being established in 2007, the University has its unique ideology of providing all aspects of education comprising of Physical, Practical, Aesthetic, Moral and Intellectual.

Department of Mathematics

The Department of Mathematics was established in 2008. From that time onwards, the department has been striving to provide quality and rigorous M.Sc. and Ph.D courses in the core area of mathematics like Algebra, Analysis, Differential Equations, Numerical Analysis, Topology, Differential Geometry, and Number Theory along with their applications such as Computational Fluid Dynamics, Electrokinetics, Operations Research, Bio-mathematics, Plasma Dynamics, Soliton Theory and many more. It has always followed the culture of all good universities of the world and pursued fundamental research of an original nature rather than repetitive and marginal research.

About the Conference

SICEAMS-2024 is to bring together the academicians, scientists, engineers and researchers to exchange and share their latest knowledge and views for better understanding of the emerging trends in Mathematical sciences. Our aim is to establish the existence of solution of physical problems or to extend the physical interpretation from a specific physical situation to a general one.

Chief Patron: Hon'ble Vice-Chancellor, UGB

Patrons:

- Dean, Faculty of Sciences, UGB
- Director, IQAC, UGB
- Registrar, UGB

Secretary: Prof. Sanatan Das, UGB

Joint Conveners:

Dr. Debraj Chandra, UGB & Dr. Simanta De, UGB

Treasurer: Dr. Laxmikanta Mandi, UGB

Keynote Speakers

- **Prof. O. D. Makinde**, Stellenbosch University, South Africa
- **Prof. Ljubisa D.R. Kocinac**, University of Nis, Serbia
- **Prof. Pratulananda Das**, Jadavpur University, India
- **Prof. Manoranjan Maiti**, Vidyasagar University, India

Invited Speakers

- **Prof. Ali J. Chamkha**, Kuwait College of Science and Technology, Kuwait
- **Prof. Selma Ozcag**, Hacettepe University, Turkey
- **Prof. Maddalena Bonanzinga**, Messina University, Italy
- **Prof. Masami Sakai**, Kanagawa University, Japan
- **Prof. Themba Dube**, University of South Africa, South Africa
- **Prof. D. B. Gurung**, Kathmandu University, Nepal
- **Prof. Somnath Bhattacharyya**, IIT Kharagpur, India
- **Prof. Prasanta Chatterjee**, Visva Bharati, India
- **Prof. Pankaj Dutta**, IIT Bombay, India
- **Prof. Absos Ali Shaikh**, The University of Burdwan, India
- **Prof. Samarjit Kar**, NIT Durgapur, India
- **Prof. Manoranjan Singha**, University of North Bengal, India
- **Dr. Saeed Dinarvand**, Islamic Azad University Central Tehran Branch, Iran
- **Dr. Sachin Shaw**, Botswana International University of Science and Technology, Botswana
- **Dr. Soumen De**, University of Calcutta, India
- **Dr. Vivek Sadhu**, IISER Bhopal, India
- **Dr. Dipak Kumar Jana**, Gangarampur College, India

Theme Areas (but are not limited to)

- ❖ Commutative Algebra, Algebraic number theory, Computational Algebra
- ❖ Applied Algebra, Combinatorics and its Applications
- ❖ Cryptography, Coding Theory
- ❖ Number Theory and Mathematics Education
- ❖ Computational Graph Theory

- ❖ Probability Theory, Noncommutative Probability, Ergodic theory
- ❖ Stochastic Process, Stochastic Geometry
- ❖ Mathematical Statistics, Robust Statistics, Statistical Computing
- ❖ Algebraic Statistics and its Applications

- ❖ Numerical Analysis
- ❖ Computing Theory, Numerical and Semi-Numerical Algorithms

- ❖ Ordinary and Partial Differential Equations
- ❖ Boundary Value Problems

- ❖ Real Analysis
- ❖ Sequence, Series and Summability
- ❖ Functional Analysis, Wavelet Analysis, Fourier Analysis, Harmonic Analysis
- ❖ Operator Theory, Operator Algebras
- ❖ Fixed Point Theory, Approximation Theory

- ❖ Geometry, Algebraic Geometry, Differential Geometry, Complex Geometry
- ❖ Theoretical and Applied Computational Geometry, Noncommutative Geometry

- ❖ Geometry of Manifolds
- ❖ Descriptive Set Theory and Topology, Combinatorial Topology
- ❖ Algebraic Topology, Differential Topology

- ❖ Complex Analysis, Complex Dynamics
- ❖ Flow Dynamics, Control, Mathematical Modelling in Scientific Disciplines

- ❖ Optimization
- ❖ Operations Research, Optimization Techniques
- ❖ Neural Network and Genetic Algorithms
- ❖ Analysis and Design Tools

- ❖ Fuzzy Sequence Spaces
- ❖ Fuzzy Systems and Fuzzy Control
- ❖ Finance Mathematics

- ❖ Dynamical Systems and Chaos
- ❖ Classical Fluid and Solid Mechanics
- ❖ Computational Fluid Dynamics
- ❖ Micro & Nano-fluidics, Electrokinetics
- ❖ Heat and Mass Transfer & Bioheat Transfer

- ❖ Plasma Physics, Astrophysics
- ❖ Quantum Mechanics, Computational Physics
- ❖ Biomechanics, Bioengineering, Biochemistry, Microbiology, Biomedicine
- ❖ Environmental Science, Metrology
- ❖ Industrial Mathematics, Management & Banking
- ❖ AI-based computation
- ❖ Mathematical Modeling and Simulation
- ❖ Mathematics in Astrophysics and Earth System Science

Important Dates

Registration and Abstract Submission: 02-12-2024 to 15-12-2024

Notification of Acceptance: 16th December 2024

Website

<https://sites.google.com/view/siceams/home>

Venue

Department of Mathematics
University of Gour Banga
Malda-732103, West Bengal, India

Registration and Abstract Submission Link

<https://forms.gle/pEK3Fp4Y7LYBNb1F8>

Bank Account Details

Account Name: **Department of Mathematics**
Account Number: **1622010065733**
Bank Name: **Punjab National Bank**
Branch Name: **University of Gour Banga**
Branch Code: **162220**
IFSC Code: **PUNB0162220**
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