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### Chairperson

Prof. Shiv Raj Singh, Department of Mathematics, CCSU, Meerut

### Convenor

Prof. Mukesh Kumar Sharma, Head, Department of Mathematics, CCSU, Meerut

### Organizing Secretary

Dr. Saru Kumari, Department of Mathematics, CCSU, Meerut  
Dr. Sandeep Kumar, Department of Mathematics, CCSU, Meerut

## Important Dates

Abstract Submission Deadline : March 12, 2025  
Acceptance Notification : March 16, 2025  
Last Date for Registration : March 18, 2025

## Mode of Presentation

Invited Talk/Oral/Poster.

## Registration Fees

Academicians/Faculty Members/Industry Persons : 1000/-  
Research Scholars : 800/-  
Students : 500/-

## Payment Details

Payment of the registration fees must be made online to our below mentioned bank account.

Account Name : Main SB A/c CCSU, Meerut  
Account Number : 20195822291  
Name of the Bank : Indian Bank  
IFSC Code : IDIB000M690  
MICR : 250019029  
Branch : Indian Bank CCS University Branch, Meerut.

## Local Hospitality

Boarding and lodging will be provided to the outstation participant in the university guest house as per the availability of seats.

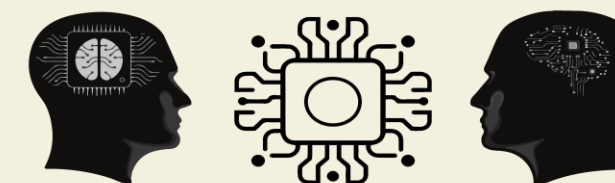
## Important Links

Abstract Submission Link: [hNps://forms.gle/VhA3RkDwMjLNpUf68](https://forms.gle/VhA3RkDwMjLNpUf68)  
Registration Link: [hNps://forms.gle/AxdSrtQSLaD6JzWGA](https://forms.gle/AxdSrtQSLaD6JzWGA)

## Contact Information

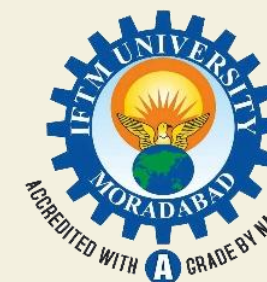
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## Two Days National Conference On (Hybrid Mode) March 21-22, 2025



### Computational and Theoretical Advances in Mathematical Sciences and Their Applications

in association with



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**Organized by**  
Department of Mathematics



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Meerut, 250004, Uttar Pradesh, India  
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## About CCS University, Meerut

Chaudhary Charan Singh University (CCSU), established in 1965, is one of the premier educational institutions of India encompassing a vast, beautiful, and pollution-free campus sprawling over 222 acres of land having vast playgrounds and experimental facilities, a botanical garden, a rose garden with life-size statues of the Bharat Ratna & former Prime Minister of India late Chaudhary Charan Singh and Swami Vivekananda, Central Instrumental Facility, Gymnasium, Indoor Stadium, well equipped Library, Hostels for both girls and boys, Administrative Block, Spacious Auditorium, Guest House, Community Centre, Medical Centre, Residential Quarters for faculty members and employees, Canteen, Bank, and Post office. The University affiliates 714 aided, government and self financial colleges/institutions, catering more than 5.25 lakh students. The motto of the University 'Yatra Satyasya Paramam Nidhanam' (Where the truth has its supreme abode) is reflected in its vision and mission. The teaching departments are housed in spacious buildings and have well-equipped laboratories and advanced research facilities. The University also has a separate engineering college, which offers courses leading to B.Tech. degree in different branches of engineering and M.Tech. in Computer Science & IT. The University was recently awarded A++ grade (CGPA 3.66) by NAAC. The University is ranked among top 100 state universities in India as per NIRF-2024 ranking. The University achieved 222 rank in QS-2025 ranking among Southern Asian Universities. The University has been awarded "The Best State University" in research citation award-2023 by Clarivate (Web of Science).

## About the Department of Mathematics

From the day of its inception in 1969, Mathematics Department of Chaudhary Charan Singh University has been an important force in the academics and a key part of University's educational mission. The Department was established with a motive to help deepen students' insights into the subject and produce vibrant and dynamic community of perfect scholars. Till date it is continuing with its aim by producing able graduates and researchers in different fields of pure and applied mathematics like Operations Research, Reliability Theory, Fuzzy Sets and Systems, Intelligent Transportation Systems, Meta-heuristic algorithms, Control Theory, Topology, Approximation Theory, Fluid Dynamics, Cryptography etc. The department has made its own mark in the field of Mathematics Education. It has a well-equipped laboratory for working in Mathematics Education having several innovative educational games, charts, models and filmstrips. Department of Mathematics offers Ph.D., M.Sc. and B.Sc. (Hons)/Hons with research programme. In addition, Department also runs a six-month certificate and one year diploma course in Vedic Mathematics. Notably there is an MoU between Shiksha Sanskriti UNhan Nayas and Chaudhary Charan Singh University, Meerut.

## About The Conference

The primary aim of the conference is to provide a platform for researchers, academicians, and industry professionals to discuss recent developments in mathematical sciences. The conference will focus on both fundamental theoretical advancements and computational methodologies, highlighting their applications in various scientific and industrial domains. It aims to bring together experts to foster collaboration, innovation, and knowledge exchange in addressing contemporary challenges in mathematics.

## Objectives:

- To provide a platform for researchers and professionals to present and discuss recent developments in mathematical sciences.
- To explore the application of theoretical and computational methods in addressing real-world challenges across scientific and industrial domains.
- To encourage interdisciplinary collaboration and knowledge exchange among experts from various fields of mathematics.
- To introduce participants to cutting-edge computational tools, techniques, and software that aid in scientific research and data analysis.
- To encourage the use of computational tools across various scientific disciplines, highlighting their versatility and importance in interdisciplinary studies.
- To highlight emerging trends in mathematics and demonstrate real-world applications of computational tools in areas such as data science, artificial intelligence, machine learning, big data analytics, and scientific simulations.
- To provide a platform for interaction and collaboration among researchers, industry professionals, and students to exchange ideas and insights.
- To motivate students to pursue further studies and research in mathematics and its interdisciplinary applications.
- To raise awareness about emerging trends and future prospects of computation in scientific research and development.

## Scope and Call for Contributions

The conference on **Computational and Theoretical Advances in Mathematical Sciences and Their Applications** aims to explore the latest advancements in mathematical theories and computational methods. The conference will focus on both fundamental research and practical applications, emphasizing how mathematics can solve complex problems in various scientific, engineering, and industrial fields. We invite researchers, academicians, industry professionals, and students to contribute to the conference through original and innovative submissions. We encourage submissions that elucidate conceptual, constructive, empirical, experimental, or theoretical work, fostering an environment where young researchers can derive maximum benefit. Your valuable participation will undoubtedly contribute to shaping the conference into a platform for insightful discussions and knowledge dissemination.

## Who can participate

Researchers, academicians, graduate and postgraduate students, industry professionals, and technology enthusiasts from diverse scientific fields can attend and present their work.

## Topics of Interests

The conference will delve into a wide array of topics related to the latest advancements in mathematical theories and computational methods, with a focus on their applications across diverse scientific and industrial domains. Experts and professionals will share their insights on the latest trends and breakthroughs in theoretical advancements, computational methods, and their real-world applications in solving complex scientific and industrial challenges. Some potential topics that will be covered in the conference include:

- **Theoretical advancements in algebra, cryptography, topology, inventory modeling and control theory**
- **Mathematical modeling and computational fluid dynamics**
- **Numerical methods and scientific computing**
- **Fuzzy optimization, machine learning, and artificial intelligence**
- **Mathematical applications in engineering, physics, and bioinformatics**
- **Mathematical methods in environmental science, sustainability, and healthcare**
- **Computational finance, big data analytics, and data-driven applications**

## Expected Outcomes:

The conference aims to provide participants with valuable insights and practical knowledge that will contribute to their research and professional development. The expected outcomes include:

- **A deeper understanding of recent advancements in both theoretical and computational mathematics.**
- **Enhanced knowledge of the practical applications of mathematics across various scientific and industrial fields.**
- **Strengthened collaboration and networking opportunities between researchers, industry professionals, and students.**
- **Insights into emerging trends like quantum computing, machine learning, and their mathematical foundations.**
- **Encouragement of interdisciplinary research and innovation in solving real-world challenges using mathematical tools.**
- **Empowerment of young researchers and students by providing them with exposure to cutting-edge mathematical research and innovation.**