

INTERNATIONAL CONFERENCE
ON
Mathematics and Applications-2024
(ICMA-2024)

March 05-06, 2024



DEPARTMENT OF
THEMATICS
DEPARTMENTAL PROJECTS:
UGC - DSA-I (SAP) • DST - FIST
BOARD FOR HIGHER MATHEMATICS (BHM)



Patron

Professor Gautam Chandra, Hon'ble Vice Chancellor, The University of Burdwan

Advisory Committee

- ❖ **Professor Ashis Kumar Panigrahi**, Hon'ble Pro Vice Chancellor, The University of Burdwan.
- ❖ **Professor Sunil Karforma**, Dean, Faculty of Science, The University of Burdwan.
- ❖ **Professor Pradip Chattopadhyay**, Dean, Faculty of Arts, Commerce, Law etc., The University of Burdwan.
- ❖ **Dr Sujit Kumar Chowdhury**, Registrar, The University of Burdwan.
- ❖ **Professor Sergey Kryzhevich**, Gdańsk University of Technology, Poland.
- ❖ **Professor Leopoldo Eduardo Cárdenas-Barrón**, Department of Industrial and Systems Engineering, Instituto Tecnológico y de Estudios Superiores de Monterrey, Mexico.
- ❖ **Professor Biswajit Sarkar**, Department of Industrial Engineering, Yonsei University, South Korea.
- ❖ **Professor Ata Allah Taleizadeh**, School of Industrial Engineering, College of Engineering, University of Tehran, Tehran, Iran.
- ❖ **Professor Vladimir Rakočević**, University of Niš, Faculty of Sciences and Mathematics, Višegradska 33, 18000 Niš, Serbia.
- ❖ **Professor Gautam Mukherjee**, ISI, Kolkata, India.
- ❖ **Professor Kalyan Chakraborty**, Harish Chandra Research Institute, India.
- ❖ **Professor Satyajit Roy**, Department of Mathematics, IIT, Chennai, India.

- ❖ **Professor Durga Charan Dalal**, Department of Mathematics, IIT, Guwahati, India.
- ❖ **Professor A.K. Pani**, Department of Mathematics, IIT Bombay, India.
- ❖ **Professor Krishnendu Gongopadhyay**, Department of Mathematical Sciences, IISER, Mohali, India.
- ❖ **Professor (Retd.) Kripasindhu Chaudhuri**, Department of Mathematics, Jadavpur University, Kolkata, India.
- ❖ **Professor Nita H. Shah**, Department of Mathematics, Gujarat University, Ahmedabad, India
- ❖ **Professor (Retd.) I. S. Shivakumara**, Department of Mathematics, Bangalore University, India.
- ❖ **Professor S. D. Adhikari**, Department of Mathematics, Vivekananda University, Belur, India.
- ❖ **Professor B. Satyanarayana**, Department of Mathematics, Acharya Nagarjuna University, Andhra Pradesh, India.

Organizing Committee

1. Professor Shyamal Kumar Hui, Head, Department of Mathematics -Chairman
2. Professor Asoke Kumar Bhunia
3. Professor Gorachand Layek
4. Professor Mantu Saha
5. Professor Absos Ali Shaikh
6. Professor Amar Kumar Banerjee
7. Professor Arijit Ghoshal
8. Professor Swati Mukhopadhyay
9. Dr Biswajit Mitra
10. Dr Prasanta Malik
11. Dr Brojeswar Pal -Jt. Convener
12. Dr Ritabrata Biswas
13. Dr Ali Akbar Shaikh - Jt. Convener

Scope and Programme

The aim of the conference is to exchange views on the recent developments in different areas of Mathematics and also to bring together the leading experts of different fields from across the globe. It is intended to stimulate the interests of young researchers in current research interest. The conference covers a number of research areas: Geometry; Algebra; Analysis; Functional Analysis; Topology; Non-linear Dynamics and chaos; Continuum and Quantum Mechanics; Optimization and Operations Research; Discrete Mathematics; Mathematical Physics and their Applications. The scientific programme will consist of Plenary Lectures, Invited Talks and Oral Presentations.

Tentative Resource Persons

International:

1. **Professor Sergey Kryzhevich**, Gdańsk, University of Technology, Poland, E-mail: kryzhevich@gmail.com .
2. **Professor Vasile Berinde**, Director, Department of Mathematics and Computer Science, North University of Baia Mare, Victoriei 76, 430072 Baia Mare, Romania, E-mail: vasile.berinde@gmail.com, vberinde@ubm.ro.
3. **Professor Themba Dube**, UNISA-Department of Mathematical Sciences, University of South Africa, P.O. Box 392, 0003 Pretoria, South Africa, E-mail: dubeta@unisa.ac.za.
4. **Professor Roman Mikhailov**, Laboratory of Modern Algebra and Applications, St. Petersburg State University, 14th Line, 29b, Saint Petersburg, 199178, Russia, E-mail: rmikhailov@mail.ru.
5. **Professor Meraj Ali Khan**, Department of Mathematics and statistics, Imam Muhammad Ibn Saud Islamic University, Riyadh 11566, Saudi Arabia, E-mail: MSKhan@imamu.edu.sa
6. **Professor M. Ali Akbar**, Department of Applied Mathematics, University of Rajshahi, Bangladesh, E-mail: ali.akbar@ru.ac.bd.
7. **Professor Md Fazlul Hoque**, Department of Mathematics, Pabna University of Science and Technology, Pabna 6600, Bangladesh, E-mail: fazlulmath@pust.ac.bd.
8. **Professor Harun-Or-Roshid**, Department of Mathematics, Pabna University of Science and Technology, Pabna-6600, Bangladesh, E-mail: harunoroshidmd@gmail.com.
9. **Dr Rajat Subhra Hazra**, Leiden University, Netherlands, E-mail: r.s.hazra@math.leidenuniv.nl.

National:

1. **Professor G. P. Raja Sekhar**, Department of Mathematics, IIT, Kharagpur, E-mail: rajas@iitkgp.ac.in.
2. **Professor Rudra P Sarkar**, Division of Theoretical Statistics and Mathematics Statistics and Mathematics Unit, Indian Statistical Institute, Kolkata, India, E-mail: rudra@isical.ac.in.
3. **Professor Jaydeb Sarkar**, Statistics and Mathematics Unit, Indian Statistical Institute, Bangalore 560059, Karnataka, India, E-mail: jaydeb@gmail.com.
4. **Professor (Retd.) R P Pant**, Department of Mathematics, Kumaun University, D. S. B. Campus, Nainital 263002, India, E-mail: pant rp@rediffmail.com.
5. **Professor Krishnendu Gongopadhyay**, Department of Mathematical Sciences, IISER, Mohali, Punjab 140306, India, E-mail: krishnendu@iisermohali.ac.in.
6. **Professor Pratulananda Das**, Department of Mathematics, Jadavpur University, E-mail: pratulananda@yahoo.co.in.
7. **Professor Shashi Kant Mishra**, Department of Mathematics, Institute of Science, Banaras Hindu University, Varanasi, India, E-mail: shashikant.mishra@bhu.ac.in.

8. **Professor Banktेशwar Tiwari**, DST-Centre for Interdisciplinary Mathematical Sciences, Institute of Science, Banaras Hindu University, Varanasi, India, E-mail: btiwari@bhu.ac.in.
9. **Professor (Retd.) Sudip Kumar Acharyya**, Department of Pure Mathematics, University of Calcutta, Ballygaunge Circular Road, Kolkata 700019, West Bengal, India, E-mail: sdpacharyya@gmail.com.
10. **Professor Vinod Kumar Bhardwaj**, Department of Mathematics, Kurukshetra University, Haryana, E-mail: vinodk_bhj@rediffmail.com.
11. **Professor B. C. Tripathy**, Department of Mathematics, Tripura University, E-mail: tripathybc@yahoo.com.
12. **Professor (Retd.) Zafar Ahsan**, Department of Mathematics, Aligarh Muslim University, Aligarh, India, E-mail: zafar.ahsan@rediffmail.com.
13. **Professor Chigurupalli Santhi Sundar Raj**, Department of Engineering Mathematics, Andhra University North Campus, Andhra University, Visakhapatnam, Andhra Pradesh-530003, India, E-mail: santhisundarraaj@yahoo.com.

About the University

The University of Burdwan, widely known as Burdwan University, was established by the Government of West Bengal, India as a teaching and affiliating university on 15th June 1960. It has now emerged as the second largest public university (in terms of student's enrolment) in the state of West Bengal, containing thirty-five Post-Graduate departments, feeding and nourishing 74 affiliating colleges spread over three adjoining districts. The University is located in Burdwan, a rapidly growing town situated 100 km north-west of Kolkata, the state capital. The academic campus of the University, sprawling over 316 acres' of area in Golapbag, is full of natural bio-diversity and has remained serene over the years. The university offers Certificate, Diploma, Honours, Post Graduate, M. Phil and Doctoral Programmes in diverse disciplines.

From its inception, the university has been giving utmost importance to the researches in basic sciences, humanities and commerce. The tireless efforts of the dedicated teachers of this university had brought under the support of UGC Special Assistance Programme in majority of the Post-Graduate departments. The five departments were recognized as UGC CAS. All the core science departments have been continuously getting supports from the Department of Science and Technology, Government of India under FIST programme for the last two decades. The university successfully completed the Promotion of University Research and Scientific Excellence (PURSE) Phase 2 programme. Apart from those Programmes, a reasonable amount of fund has been mobilized continuously through individual's research and development projects funded by almost all the central and state funding agencies.

About the Department

The Department of Mathematics started its journey from the inception of the University. It has excellent records of teaching and research. Based on its performance, the University Grants Commission, India has identified the Department for Special Assistance Programme DSA (Phase -I). Currently, the Department is supported by the Department of Science and Technology, Government of India under FIST (Phase 3) Programme. For the last twenty years, the Department has been receiving financial assistance from National Board for Higher Mathematics (NBHM), Govt. of India. A galaxy of distinguished alumni spreading all over the country and abroad in various reputed institutions / sectors is the fame of this department.

City

Burdwan (also known as Barddhaman) is the district head quarter of Purbo Barddhaman (erstwhile Burdwan) district in the state of West Bengal. The city is situated on the bank of river Damodar. NH 2 and Howrah-New Delhi rail route have passed through the city. So many places of interest around Burdwan are there for tourists.

Travel

Burdwan is well connected by both road and rail to the other parts of the country (<https://www.buruniv.ac.in/Demo/Template.php?menu=Contact&submenu=RouteToBU>). It is 110 km away from Netaji Subhas Chandra Bose International Airport, Kolkata, 82 km away from Howrah station and 100 km away from Sealdah station. Also it is 110 km away from Kazi Nazrul Islam Airport, Andal, Paschim Bardhaman.

Call for Abstracts

Abstracts (in prescribed format) of original research works/articles/papers in the fields stated above are invited from the interested researchers for presentation in this conference. Abstracts must be submitted in the prescribed format. Intended presenters are suggested to overwrite the texts in the abstract-template. (click here [Abstract-template.docx](#)).

How to submit

- i. Fill up the registration form within due date [click here] [↓](https://forms.gle/aWcCXzYAPoa41Gx66)
<https://forms.gle/aWcCXzYAPoa41Gx66>
- ii. Upload the abstract in the appropriate field.

All submitted abstracts will be peer reviewed. Acceptance will be intimated to the respective participant in due course of time. On receiving the letter of acceptance, participants are to deposit requisite fee online to the following account within due date.

Mode of Payment

Registration fee is to be paid by online bank transfer through 'SBI Collect' [click here] [↓](https://www.onlinesbi.sbi/sbicollect/icollecthome.htm)
<https://www.onlinesbi.sbi/sbicollect/icollecthome.htm>

Instructions for payment of Registration Fee:

- Step-1: Click on the 'SBI Collect' payment link
- Step-2: Search by institution / organization name as "The University of Burdwan"
- Step-3: Insert Payment Category: "Intl. Conference on Mathematics and Application".
- Step-4: After that, all points are as usual.

After depositing the requisite fee (non refundable), 'receipt of fee' has to be sent to the Convener by email bu.icma2024@gmail.com.

Important Dates

| | | |
|--|---|--|
| Last date of submission of Abstract | : | 07th February, 2024 31st January, 2024 |
| Last date of Notification of acceptance | : | 10th February, 2024 07th February, 2024 |
| Last date of submission of Registration fee with accommodation | : | 20th February, 2024 |
| Last date of submission of Registration fee without accommodation | : | 25th February, 2024 |

Note:** Participants are requested to kindly note that the registration fees may be paid through offline mode. Also submission of the duly filled-in Google form is mandatory for the confirmation of the participation.

Registration Fees (With Accommodation*):

| For Paper Presentation and Participation | Foreign Participants | | National Participants | |
|--|---|---------------------|---------------------------------------|----------|
| | Faculty members | USD 100 | Faculty members | Rs. 3200 |
| Faculty members (SAARC countries) | USD 50/ Rs. 4000 | Research Scholars | Rs. 2800 | |
| Research Scholars | USD 60 | | | |
| Research Scholars (SAARC countries) | USD 45/ Rs. 3600 | | | |
| For Participation only | Faculty members/ Research Scholars | USD 50 | Faculty members/ Research Scholars | Rs. 2500 |
| | Faculty members / Research Scholars (SAARC countries) | USD 45/ Rs. 3600 | | |
| For Accompany person (each) | Faculty members/ Research Scholars | USD 55 | Faculty members/ Research Scholars | Rs. 2200 |
| | Faculty members / Research Scholars (SAARC countries) | USD 40/ Rs. 3200 | | |

**1. Accommodations for all the foreign participants will be arranged in the University Guest House on sharing basis.*

**2. Limited accommodations for national participants will be arranged in the University Guest House on first come first served and sharing basis.*

**3. Registration fees with accommodation includes conference kits, Breakfast and Lunch (March 05-06, 2024), Dinner (March 04-06, 2024) and Interim Tea & Snacks.*

Registration Fees (Without Accommodation**):

| For Paper Presentation and Participation | National Participants | | BU Participants | |
|--|-----------------------|---|---|----------|
| | Faculty members | Rs. 2800 | Research Scholars | Rs. 1500 |
| Research Scholars | Rs. 2500 | Research Scholars (Without Registration kits) | Rs. 1000 | |
| For Participation only | Faculty members | Rs. 2500 | Research Scholars | Rs. 1500 |
| | Research Scholars | Rs. 2200 | Research Scholars (Without Registration kits) | Rs. 1000 |

****1.** Registration fees without accommodation includes conference kits, Breakfast and Lunch (March 05-06, 2024), Dinner (only March 05, 2024) and Interim Tea & Snacks.

****2.** Accommodations in the Private Hotels may be arranged by the organizing committee on request in the Burdwan city but the cost of accommodations in the Hotels shall have to be borne by the participants.

Notes:

- i. This conference will be conducted in offline and online (only for Foreign Participants) mode.
- ii. 25% of registration fee will be waived for foreign participants who are willing to join through online mode.
- iii. Registration fee is non-refundable.
- iv. Interested persons can participate in the conference without presenting research paper. In that case, registration form has to be filled up too. After scrutinizing the form, organizers will send confirmation email to the respective participants. On receiving the confirmation email, requisite fees has to be deposited online to the above-mentioned account, and a copy of receipt has to be sent through email to the convener to get the link of the conference.
- v. Hard copy of certificates will be issued to the registered offline-attended/presented participants and e-certificate will be issued to the registered online-attended/presented participants after submitting the feedback form.

Contact Details

Dr. Brojeswar Pal and Dr. Ali Akbar Shaikh

Joint Conveners, ICMA - 2024

Department of Mathematics, The University of Burdwan,

Burdwan - 713104, West Bengal, India

E-mail: bu.icma2024@gmail.com

(+91) 7908427350 (B. Pal)

(+91) 8617422926 (A. A. Shaikh).