

## AMITY UNIVERSITY-INDIA'S TOP RANKED RESEARCH & INNOVATION DRIVEN UNIVERSITY

Amity University, the flagship institution of Amity Education Group, is India's no. 1 ranked not-for-profit private University with a strong focus on research and innovation. It has been recognised as 'India's Best Research University' by the Indian Education Awards 2014 and was also ranked by QS and THE (The Higher Education) among the top 3% Universities globally.

Amity has set a new standard of academic excellence in India by becoming Asia's only not-for-profit university to be awarded US Regional Accreditation by WASC Senior College and University Commission, USA – considered the Gold Standard of Accreditations globally The Group since its inception, about three decades ago, has established 12 Universities and 28 schools with campuses across London, Singapore, Dubai, New York, Seattle, San Francisco, Mauritius, China, Abu Dhabi,

Amsterdam, South Africa, Nairobi and Romania, besides India and is home to over 200,000 students pursuing world-class education from Prenursery to Ph.D.

The Amity faculty has filed over 2,000 patents –the highest number filed by any Indian University. It has also developed over 4,200 case studies, bought by leading institutions across 110 countries. Amity has instituted an extensive Scholarship Programme benefitting over 25,000 students so far.

This pursuit of excellence has also resulted in Amity Institutes being ranked among the very top in India in areas of Management, Engineering, Biotechnology, Hospitality, Law, Mass Comm, Insurance and Telecom in various prestigious surveys.

## AMITY INSTITUTE OF APPLIED SCIENCES

Amity Institute of Applied Sciences (AIAS) was established under the aegis of Amity University, Uttar Pradesh with a vision to be a Center of Excellence for Physical, Chemical, Mathematical and Statistical Sciences. The institute's highly qualified faculty includes more than 98% doctorates. AIAS offers UG, PG and doctoral programs in Physics, Chemistry, Mathematics, Statistics and Medical Physics. It has research collaborations with the labs of Govt of India as well as international universities and research institutes. The highly research oriented faculty regularly publishes papers in journals of high repute. AIAS faculty has filed a number of patents and has got sanctioned projects from premier funding agencies. Conferences, seminars and workshops are organized frequently.

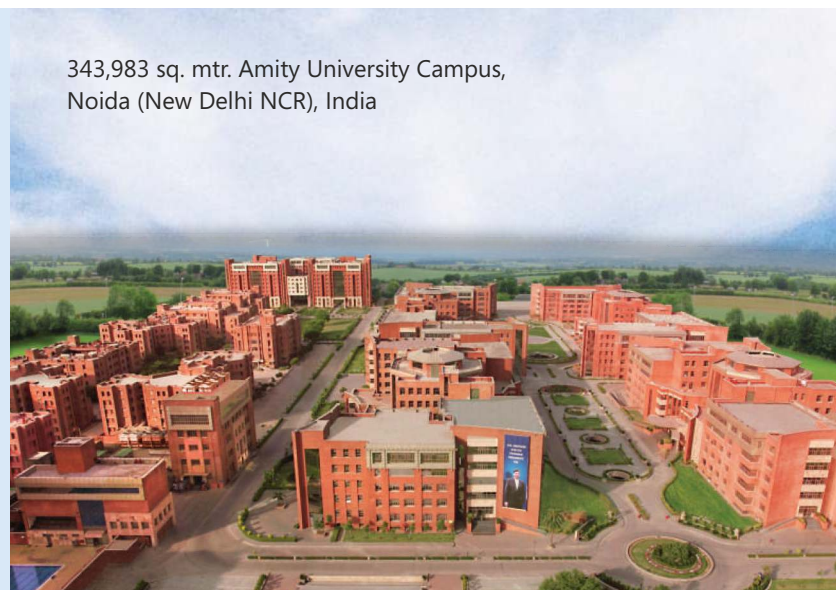
## AMITY INSTITUTE FOR ADVANCED RESEARCH AND STUDIES (MATERIALS & DEVICES)

AIARS (M&D) was established to carry out research on advanced materials and devices. The department has to its credit a highly experienced faculty and state-of-the-art labs, equipments, apart from facilities like SEM, AFM, DLS, spectrophotometer, Electrical Measurements Systems, etc. The department has filed 32 patents and published more than 50 papers in referred journals.

## AMITY'S ACHIEVEMENTS IN RESEARCH

- 6 Nobel Laureates associated with the university
- Highest number of fellowships awarded for post-doctoral research
- Technology transfer of numerous innovations for commercialisation
- Research collaborations with over 150 universities globally
- Over 4,200 management case studies developed by faculty bought across 106 countries
- Over 300 patents filed by students
- 30+ Research Centres for hi-end research

343,983 sq. mtr. Amity University Campus,  
Noida (New Delhi NCR), India



### Contact Details:

Dr. Ravi Kant Choubey, Mobile: +91-9711236754, Email: [rkchoubey@amity.edu](mailto:rkchoubey@amity.edu)  
Dr. Manoj Raula, Mobile: +91-7585841180, Email: [mraula@amity.edu](mailto:mraula@amity.edu)  
Dr. Anjali Naithani, Mobile: +91-9968053203, Email: [anaithani@amity.edu](mailto:anaithani@amity.edu)

# 6<sup>th</sup> INTERNATIONAL CONFERENCE ON RECENT TRENDS IN MATERIALS AND DEVICES (ICRTMD 2023)

(Chemical, Physical and Mathematical Sciences)

19<sup>th</sup>-20<sup>th</sup> December, 2023 • Amity University, Sec.-125, Noida (New Delhi NCR), India



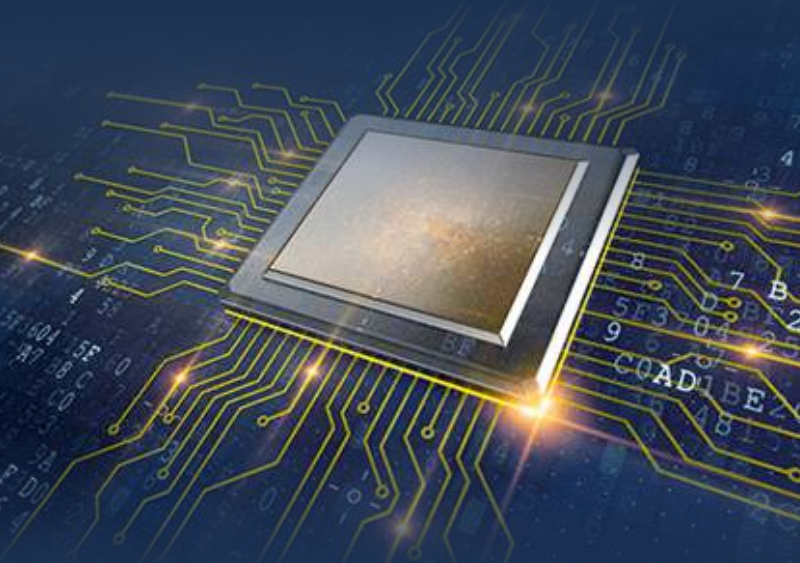
Jointly Organised by:



# RECENT TRENDS IN MATERIALS AND DEVICES (ICRTMD 2023)

(Chemical, Physical and Mathematical Sciences)

- 19<sup>th</sup>-20<sup>th</sup> December, 2023
- Amity University, Sec.-125, Noida (New Delhi NCR), India



## ABOUT THE CONFERENCE

The 6<sup>th</sup> International Conference on Recent Trends in Materials and Devices (ICRTMD-2023) will promote collaborative excellence between academicians, researchers, scientists, engineers, and industry experts to network and share their knowledge, insightful suggestions, and showcasing cutting-edge research in the field of chemical, physical and mathematical Sciences. Such scientific gathering will encourage interdisciplinary research that enhances the potential of science to produce breakthrough in upcoming technologies and solutions to real-world complex problems. This conference will focus and cover the latest research and development in areas of advanced and sustainable materials along with the usage of computational mathematics and statistics. ICRTMD-2023 will embody the spirit of exploration, collaboration and scientific progress, standing as a testament to the boundless human potential to shape a brighter future through the convergence of the areas covered in the conference.

## THEMATIC AREAS:

### PHYSICAL & CHEMICAL SCIENCES

- Functional Materials
- Sustainable Materials
- Quantum Materials
- Semiconductor Materials
- Nanomaterials and Thin Films
- Materials for Renewable Energy
- Materials for Energy Storage and Conversion
- Materials for Space Applications
- Advanced Polymeric Materials
- Biomaterials
- Sensors
- Applications of Plasma
- Laser & Optoelectronic Devices
- Catalysis

### MATHEMATICAL & STATISTICAL SCIENCES

- Computational Methods for Linear & Non-Linear Optimization
- Computational Group Theory
- Complex Analysis
- Computational Biology
- Fuzzy systems and applications
- Artificial intelligence and IoT applications
- Inventory management & Optimization
- Adaptive and Complex system analysis
- Computational Mathematics & Intelligence
- Software reliability and its applications
- Operations research and management sciences
- Neural computing and machine learning
- Modelling, Analysis and simulation
- Reliability based design optimization
- Soft computing
- Supply Chain Management
- Sustainable Engineering
- Differential and Riemannian Geometry
- Application of Fractional Calculus & Integral Transforms

## TECHNICAL SESSIONS:

- Plenary Talks
- Keynote Address
- Invited Talks
- Oral Presentations
- Poster Sessions

## CALL FOR PAPERS

"Papers are invited based on the focus areas of the conference. Author(s) can submit abstract only or full paper(s). Submission of full paper(s) is encouraged. All papers will be peer-reviewed and selected contributory papers will be published in refereed journals. The abstract must be submitted on the website as per the template: [www.amity.edu/icrtmd2023](http://www.amity.edu/icrtmd2023) or email to [icrtmd2023@amity.edu](mailto:icrtmd2023@amity.edu). Conference abstract book will be released during the conference.

## REGISTRATION FEE

Registration fee is applicable for all participants. The fee includes entry to all session of the conference, conference kit, lunch and high tea.

## IMPORTANT DATES

Online registration starts from: 20th September 2023  
Last date for registration without late fees: 30th November, 2023  
Abstract submission deadline: 25th November, 2023

Delegates	Registration Before 30 November '23	Registration After 30 November '23	Attendee (Without Presentations)
Foreign Delegates	US \$ 400	US \$ 450	US \$ 100
Foreign Students	US \$ 100	US \$ 150	US \$ 50
Indian Delegates	INR 5000	INR 5500	INR 1500
Indian Students	INR 3000	INR 3500	INR 1000
Industry Delegates	INR 7000	INR 8000	INR 4000

## STEERING COMMITTEE:

**Patron-in-Chief**  
**Dr. Ashok K. Chauhan**  
Founder President, Amity University

**Patron**  
**Dr. Atul Chauhan**  
Chancellor, Amity University

**Co-Patron**  
**Prof. (Dr.) Balvinder Shukla**  
Vice Chancellor, Amity University

**Chairpersons**  
Dr. Sunita Rattan  
Dr. V. K. Jain

**Conveners**  
Dr. Sangeeta Tiwari  
Dr. R. S. Pandey  
Dr. Seema Garg

**Co-Conveners**  
Dr. Hari Darshan Arora  
Dr. Dheeraj Pawar  
Dr. Christine Jeyaseelan  
Dr. Ashok Kumar  
Dr. Abhishek Verma

**Organising Secretaries**  
Dr. Ravi Kant Choubey  
Dr. Manoj Raula  
Dr. Anjali Naithani

**Treasurers**  
Dr. Gaurav Sharma  
Dr. Tejendra Kumar Gupta

## INTERNATIONAL ADVISORY COMMITTEE

- Prof. Rajendra Verma, University of Cincinnati, Ohio, USA
- Prof. Shanmugam Kumar, Glasgow University, UK
- Prof. Junwang Tang, University College London, UK
- Prof. Ewa Kowalska - Hokkaido University, Japan
- Prof. Suresh Valiyaveetil, National University of Singapore, Singapore
- Prof. Suresh Jakka, University of Aviero, Portugal
- Dr. Siva S Panda, Augusta University, USA
- Prof. Klara Hernadi, University of Miskolc, Hungary
- Prof. V T Lebedev, Petersburg's Nuclear Physics Institute, Russia
- Prof. Ajeet Kaushik, Florida Polytechnic University, USA
- Prof. L. E. Ca'rdenas-Barro'n, Tecnológico de Monterrey, Mexico
- Prof. Dinesh K. Sharma, University of Maryland, USA
- Prof. Florentin Smarandache, University of New Mexico, USA

## NATIONAL ADVISORY COMMITTEE

- Prof. Dipankar Das Sarma, IISc, Bangalore
- Prof. Swaminathan Sivaram, IISER Pune
- Dr. Sanjeev K. Varshney, DST, New Delhi
- Prof. Ashok K Ganguli, IISER Berhampur
- Prof. Anil Bhardwaj, PRL, Ahmedabad
- Prof. Venugopal Achanta, NPL, New Delhi
- Prof. Vikram Kumar, IIT Delhi, New Delhi
- Prof. Sri Singh, Institute of Science, BHU, Varanasi
- Prof. Tarun K Mandal, IACS, Kolkata
- Prof. (Mrs.) B. K. SAPRA, BARC, Mumbai
- Prof. Avesh K Tyagi, BARC, Mumbai
- Prof. Arun Sawant, WtERT India, Mumbai
- Prof. Syed Aftab Haider, PRL, Ahmedabad
- Prof H C Taneja, Delhi Technological University, New Delhi
- Prof. Chandra K. Jaggi, Delhi University, New Delhi
- Prof. Nita Shah, Gujrat University, Ahmedabad
- Prof. Bhuvnesh Gupta, IIT Delhi, New Delhi
- Prof. S. C. Malik, Maharshi Dayanand University, Rohtak
- Prof. Mukender Singh Kadian, Kurukshetra University, Kurukshetra