

# 3<sup>rd</sup> International Conference on Recent Advances in Material Science and Computational Techniques

(RAMSACT-3)  
(in Online Mode)

**September 20-21, 2023**

Organized by  
**Faculty of Science, Manipal University Jaipur**

## About Manipal University Jaipur

Manipal group in education is a name to reckon with not just in India, but the world over. The seeds of its magnificent growth were sown back in 1953 by Padma Shree Late Dr. TMA Pai. Manipal University Jaipur is the fifth university established in 2011 by Manipal Global Education Services (MAGE) which is a part of a leading international quality higher education service provider. Manipal University Jaipur is the first university in the state of Rajasthan accredited as A+ (3.28) grade by NAAC. The vision of the University is to be a "Global Leader in Higher Education and Human Development". MUJ offers a wide spectrum of career-oriented programs in different disciplines like Engineering, Sciences, Management, Law, Arts, Design, Journalism and maintains the Manipal University's legacy of providing quality.

## About Faculty of Science

Faculty of Science (FoS) aims to foster creativity and innovation for an intellectually satisfying learning environment. FoS includes School of Basic Sciences (SBS), which is entrusted with the responsibility of developing and executing academic programs in different discipline of Basic Sciences at undergraduate, postgraduate and research levels. The FoS consists of five departments: Physics, Chemistry, Mathematics & Statistics, Biosciences, and the Computer Applications. In 2022, excellence of FoS in cutting edge research resulted in substantial funding under central government schemes such as DST-PURSE (Rs 10 Cr) and DST-FIST (Rs 1.5 Cr). The measure of research productivity is often the number of high-quality peer-reviewed publications & FoS has shown significant growth on the publications in the recent years, with 421 in 2022. FoS caters to synergistic collaborations from universities/institutes & industries.

## About G20/S20

India is holding the Presidency of the G20 for the year 2023. Several engagement groups are working towards it, one of which is Science 20 or S20, which strives to bring leaders together from all over the world who can share their ideas on how science can help in a sustainable future. The theme of India's G20 Presidency is One Earth, One Family, One Future. The role of S20 in furthering the agenda of G20 is crucial, as science is the key driving force behind economic expansion and human progress. Inspired by the core theme, the theme of the Science20 summit is taken as Disruptive Science for Innovative and Sustainable Development. The sub-themes are: "Clean Energy for Greener Future", "Universal Holistic Health", and "Science for Society & Culture". Indian National Science Academy is the knowledge partner for S20 and the Research and Innovation Initiative Group (RIIG) in India's presidency of G20 in 2023.

## About the Conference

3<sup>rd</sup> International Conference on "Recent Advancements in Materials Science and Computational Techniques" (RAMSACT- 3) is a platform with the goal of bringing together prominent academic scientists, researchers, and research scholars to exchange and share their experiences and research findings on all aspects of Multifunctional Materials and Computational Techniques. It also provides a premier interdisciplinary platform for researchers, practitioners, and educators to present and discuss the most recent innovations, trends, and concerns as well as practical challenges encountered, and solutions adopted in the fields aligned with the conference theme. RAMSACT aims to provide an appropriate forum, where high quality and exceptional knowledge exchange can take place among students, academics, and industry researchers.

### Chief Patron

**Mr S Vaitheeswaran**  
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### Conveners

**Dr Ashima Bagaria**, HoD, Department of Physics

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**Dr Kalpna Sharma**, HoD, Department of Mathematics and Statistics

**Dr Rahul Shrivastava**, HoD, Department of Chemistry

### Organizing Secretaries

<b>Dr Saikat Chattopadhyay</b>	Department of Physics
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<b>Dr Naveen Kumar Singh</b>	Department of Chemistry
<b>Dr Saurabh Shrivastava</b>	

## Conference Theme Areas

### TRACK 1

#### Advancements in Biotechnology & Microbiology

- Plant Biotechnology
- Microbial Technology
- Food Biotechnology
- Agriculture Biotechnology
- Environmental and Marine Biotechnology
- Structural Biology
- Bioinformatics
- Nanobiotechnology

### TRACK 2

#### Advancements in Chemical Sciences & Environmental Sciences

- Natural Products and Biomaterials
- Environmental Chemistry
- Environmental Assessment and Sustainability
- Theoretical and Computational Chemistry
- Organic Synthesis
- Nano and Composite Materials
- Green Chemistry
- Societal Applications of Materials

### TRACK 3

#### Advancements in Mathematical and Statistics Sciences

- Algebra & Analysis
- Computational Fluid Dynamics and Solid Mechanics
- Cosmology and Celestial Mechanics
- Fuzzy Set Theory, Graph Theory & Information Theory
- Mathematical Modelling
- Operations Research and Optimization Techniques
- Special Functions and Fractional calculus
- Statistical Methods

### TRACK 4

#### Advancements in Computational Techniques

- Machine Learning and Deep Learning
- Data Science and Computing Technologies
- Cyber Physical Systems & IoT
- Healthcare & Agriculture Technologies
- Information & Network Security
- Cloud and Mobile Computing
- Image Computing
- Augmented & Virtual Reality

### TRACK 5

#### Advancements in Physics & Applied Physics

- Multifunctional Nanomaterials
- Emerging 2D-materials
- Sensors & Actuators
- Computational Physics
- Nuclear & Particle Physics
- Plasma & Controlled Fusion
- Biophysics
- Soft Condensed Matter & Non-linear Dynamics

### Registration Details

Registration Fee	with Publication	only Presentation
Indian Author	Rs 9500/-	Rs 800/-
Foreign Author	USD 150	USD 15



for more details visit the website of  
**RAMSACT-2023: <https://ramsact.in/>**

**Manipal University Jaipur**

Jaipur-Ajmer Express Highway, Dehmi Kalan, Near GVK Toll Plaza, Jaipur, Rajasthan 303007

## Advisory Committee

- **Dr Andrés A. Navarro-Newball**, Pontifical Javeriana University, Colombia
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- **Dr Surekha Mondal**, University of Kolkatta, India

## Important Dates

Last date of Abstract Submission

**June 05, 2023**

Acceptance Notification of Abstract

**June 10, 2023**

Last date of Full Paper Submission

**July 10, 2023**

## Publication Partners

After rigorous peer review the selected, papers shall be considered for publications in **Scopus Indexed Journals/Proceedings**.

**Our publishing partners are:**



Contract with few more journals is awaited

**Paper Submission Link:** <https://cmt3.research.microsoft.com/RAMSACT2023>

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