



MANIPAL UNIVERSITY
JAIPUR

MUJ/Q&C/22/F/1.01

Event Report



MANIPAL UNIVERSITY
JAIPUR

**FACULTY OF SCIENCE & DEPARTMENT OF BIOTECHNOLOGY
AND CHEMICAL ENGINEERING**

**RECENT ADVANCES IN MATERIAL SCIENCE AND
COMPUTATIONAL TECHNIQUES (RAMSACT) 2024**

IV INTERNATIONAL CONFERENCE

Date of Event

From April 4 to April 6 2024

FUNDED BY:



IN COLLABORATION WITH:





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1. Introduction of the Event

The conference “*Recent Advances in Material Science and Computational Techniques* (RAMSACT)” held annually at Manipal University Jaipur (MUJ) by the Faculty of Sciences. Since the field of materials science is an interdisciplinary field where the researchers from all the domain of sciences such as Physical Sciences, Chemical Sciences, Biological Sciences, and Mathematical and Computer Application Sciences work towards the development of novel materials, understanding the behavior and various properties along with new applications of novel and existing materials. The computational techniques developed by mathematical and Machine Learning models to understand and design various devices and applications with the materials is also an integral part of materials science. In view of such interdisciplinary nature of the materials science, the faculty of science at MUJ came up with an idea of organizing an annual conference on Materials science where all the disciplines of science as well as chemical engineers and scientists can get a platform to discuss, debate, and collaborate to work on the development of novel materials used in all the domains of mankind. Faculty of Science at MUJ has successfully organized previous three versions of the RAMSACT conference in an online mode due to covid restrictions. The first conference was held during November 24 - 26, 2021 in which 7 keynote speakers and 14 invited speakers presented their research work. The conference also attracted 45 oral presentations from the research scholars and postdocs that will be published as full-length papers in AIP Conference Proceedings.

The second RAMSACT conference was also held in online mode during 30-31 May 2022. In this international conference there were around 100 oral presentations from more than 50 institutes viz., IIT Madras, Central Universities, National Forensic Sciences University, Gujarat, Jamia Hamdard University, New Delhi, Indian Institute of Science Education and Research, Bhopal, University of Rajasthan to name a few covering all the 5 tracks. The conference hosted nine invited talks by prominent scientists and researcher from India and abroad. 99 research papers from 60 different Institutions, comprising of 18 different States of India were received and presented.

The 3rd edition of the conference was held on September 20-21, 2023, in online mode. In these two days, there were 3 Keynote speakers and 17 Invited speakers provided deep insights into several recent issues of Material Science, Computational Techniques, and the use of such techniques in different branches of science. Out of 96 papers presented by contributors 70 papers were communicated in Scopus-indexed journals such as Journal of Nano-and Electronic Physics (JNEP), NanoWorld Journal (NWJ), Proceedings of the Indian National Science Academy (PINSa), and AIP Conference Proceedings (AIP Publishing) who had given their consent to become our publication partners.

The present (4th) edition of the conference held in offline mode during April 4th to 6th 2024. The event was inaugurated in the esteemed presence of Chief Guest



Dr. (Mrs.) N. Kalaiselvi. During the three days of the conference 2 Plenary speakers, 17 keynote speakers, and 24 invited speakers presented their research work and engaged in an insightful discussion in the various fields related to the material sciences. The conference was arranged by the *Faculty of Science* in association with the *Department of Biotechnology and Chemical Engineering*, Manipal University Jaipur. The conference has an international partner as *Universiti Teknologi Petronas (UTP) Malaysia*. The conference received funding from the National agencies like *Science Education Research Board (SERB), New Delhi*, and *Defense Research and Development Organization (DRDO), New Delhi*. The conference was also sponsored by various industrial partners such as *Thermofisher Scientific, Chem Dist pvt. Ltd., Frontiers Lab Japan, Verder Scientific Ltd. India*. The financial support was also provided from the *Ramdas Pai Research Chair, Manipal University Jaipur*.

Various societies such as *Society for Materials Chemistry (SMC) Jaipur Chapter*, *Indian Chemical Council (ICC)*, and *Microbiological Society of India (MBSI)* were also associated with the conference.

2. Objective of the Event (bullet points or about 50 words)

The objective and impact of the Conference and the special issue can be summarized as follows.

- (a) 4th International Conference on “Recent Advancements in Materials Science and Computational Techniques” (RAMSACT- 2024) 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 including nanoelectronics, nano biosciences, nano-biotechnology, drug delivery, nanomaterials for catalysis, and also the Computational Techniques and methodologies relevant for the material developments.
- (b) The conference is a unique idea to provide a premier interdisciplinary platform for researchers, practitioners, and educators from various streams of science and engineering in India as well as around the globe 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.
- (c) RAMSACT - 2024 aims to provide an appropriate forum, where high quality and exceptional knowledge exchange can take place among students, academics, and industry researchers.

3. Beneficiaries of the Event (25 words)

The Conference is beneficial to all the faculty members and research scholars belonging to the Faculty of Science and the Department of Biotechnology and Chemical Engineering.

4. Details of the Guests

The inaugural function of the conference was honored by the esteemed presence of **Dr.(Mrs.) N. Kalaiselvi**, *Director General of CSIR & Secretary of DSIR* as the Chief Guest. There were 43 speakers invited for the technical sessions as follows:

S. No.	Name	Institute	Mode of Presentation
Plenary Speakers			
1	Professor Diwekar	Vishwamitra Research Institute USA	Online
2	Professor B Gopal	IISc Bangalore	Online
Keynote Speakers			
3	Prof. Kantesh Balani	IIT Kanpur	Offline
4	Prof. Rajendra Srivastava	IIT Ropar	Offline
5	Prof. Kaustubha Mohanty	IIT Guwahati	Offline
6	Prof. Susanta Mahapatra	University of Hyderabad	Offline
7	Prof. Ashok Kumar	AIIMS Bhopal	Offline
8	Prof. Kulwant Singh	SGPGI Lucknow	Offline
9	Prof. Bhajan Lal	UTP Malaysia	Offline
10	Prof. Seema Garg	Amity University Noida	Offline
11	Prof. Srish Tiwari	CCMB Hyderabad	Offline
12	Prof. Madhu Jain	IIT Roorkey	Offline
13	Prof. C. K. Jaggi	University of Delhi	Offline
14	Prof. Vikas Pareek	MGCU Bihar	Offline
15	Mr. Shailesh Goswami	CEO, Foyr	Offline
16	Prof. D. K. Maiti	VC Biswa Bangla Biswabidyalaya	Offline
17	Prof. Ashwani Tiwari	IISER Kolkata	Offline
18	Prof. Kalpit Shah	RMIT Univ. Australia	Online
19	Prof. U C Gupta	IIT Kharagpur	Offline
Invited Speakers			
20	Prof. Pradeep Kumar	MNIT Jaipur	Offline
21	Prof. Manav Saxena	Jain University Bangalore	Offline
22	Prof. Satish Shinde	IIT Hyderabad	Offline
23	Prof. Akhil Agrawal	CURAJ	Offline
24	Prof. Nilanjan Halder	MUJ	Offline
25	Prof. Vinu R	IIT Madras	Offline
26	Prof. Pratik Seth	BITS Pilani	Online
27	Dr. Nita Pareek	IIIT Hyderabad	Offline
28	Dr. Nidhi Pareek	CURAJ	Offline
29	Dr. Ashish Das	BITS Pilani	Online
30	Dr. Prabhat Jha	BITS Pilani	Offline
31	Dr. Shankar Manoharan	IIT Jodhpur	Offline
32	Dr. Chadra Shekhar	BITS Pilani	Offline
33	Dr. Bapan Gosh	IIT Indore	Offline
34	Dr. Phani Motamarri	IISc Bangalore	Online
35	Dr. Prashant Pawar	RCB Faridabad	Offline
36	Dr. Tripti Shrivastava	THSTI Faridabad	Online

37	Dr. Tikam Dakal	MSU Udaipur	Offline
38	Dr. Dzulkarnain Zaini	UTP Malaysia	Online
39	Dr. Khairulazhar Jumbri	UTP Malaysia	Online
40	Dr. Hayyiratul Fatimah	UTP Malaysia	Online
41	Dr. Noridah Binti Osman	UTP Malaysia	Online
42	Dr. Shatrugnan Karthikeyan	Frontiers Ltd Japan	Offline
43	Mr. Dinesh Chopra	Secretary, ICC, IAC	Offline

5. Brief Description of the event (about 200 words)

The Faculty of Sciences in collaboration with Department of Biotechnology and Chemical Engineering organized 4th International Conference on “Recent Advances on Material Sciences and Computational Techniques (RAMSACT) 2024” during April 04 – 06, 2024. Due to a large number of invited speakers the conference was conducted in various parallel session. The session wise details of the conference are as follows:

Inaugural Session:

The inaugural session of the conference was conducted at Sharda Pai Auditorium on April 4th, 2024. The session started at 10 AM with master of ceremony **Dr. Pooja Sharma** invited the Chief Guest **Dr. (Mrs.) N. Kalaiselvi**, Director General, CSIR and Secretary DSIR, Honourable President Manipal University Jaipur **Prof. G. K. Prabhu**, Honourable Pro-President **Cmde. (Dr.) Jawahar M Jangid**, Chair RAMSACT 2024 and Dean FoS **Prof. Lalita Ledwani**, and one of the conveners **Dr. Saurabh Srivastava** on the dais for the lamp lighting. Dr. Lalita Ledwani gave the genesis of RAMSACT and overview of Faculty of Science at Manipal University Jaipur. Pro-President shares his views on use of material science and technologies in defence sector and his experience in Naval army. In his presidential address, Prof. G. K. Prabhu discussed various example of materials and technologies being used in various sectors and the need of such conference to increase collaborations, getting insights to solve major problems. The Chief Guest emphasized in her talk about the need and application of materials in very vast areas effecting everyday life and need to design better and useful materials for various purposes including health, defence etc.

The session was ended with the release of souvenir of the conference (*the book of abstracts*) by the dignitaries present on the dais.

Session I

The session I of the conference continued in the Sharda Pai auditorium after the tea break and the session was chaired by Prof. Neelima Gupta, University of Rajasthan. The session consists of two keynote lectures by Prof. Rajendra Srivastava, IIT Ropar and Prof. Ashwani Tiwari, IISER Kolkata in their respective fields of Material Synthesis and Reaction Dynamics application on Material Surface reactions.



Session II

Session II of the conference started after the lunch break with two parallel sessions namely session IIA and IIB at Sharda Pai Auditorium and Vasanti Pai Auditorium, respectively. The session IIA was chaired by Dr. Rahul Shrivastava, Manipal University Jaipur and session IIB was chaired by Dr. Kalpana Sharma, Manipal University Jaipur. Both the sessions had two keynote lectures and two invited lectures. The session IIA had the talks focussed on the track 2 and track 5 of the conference whereas the session IIB was focussed on the track 3 and track 4 of the conference.

Poster Session I

The poster Session-I on day was conducted in 2AB, Ground Floor in front of TMA Pai Auditorium. Total 25 poster were from various field of science and Technology mainly Material Science, Mathematics, and Biology. The poster session-1 was evaluated by distinguished professors Satish Shinde IIT Hyderabad, Prof. D K Maiti Biswa Bangla Bisbidyalaya, and Prof. Madhu Jain IIT Roorkee

Session III

Session III of the conference was started after the Tea Break/Poster Session I and it was divided into two parallel sessions namely session IIIA and IIIB at Sharda Pai Auditorium and Conference room 105, Academic Block 1(AB1). Session IIIA was chaired by Dr. Mousumi Debnath, Department of Biosciences, MUJ and session IIIB was chaired by Dr. Aneesh Ahmed Yunus Khan, Department of Biotechnology and Chemical Engineering, MUJ. The two sessions had two invited talks each belonging to the track 1 and track 2 of the conference.

Technical Session I

In the technical session I on day 1, it was divided into three parallel session TS1A in Sharda Pai auditorium chaired by Prof. Nitesh Poddar, Session TS1B in Seminar Hall 105 (AB1) chaired by Prof. Naveen Kumar Singh, and the session TS1C in seminar Hall 307 (AB1) chaired by Prof. Richa Sharma, JKL. Total 30 contributory talks from the various prestigious colleges and university faculties focused on deep insights into several recent issues of Material Science, Mathematics, Computational Techniques, Bio and the use of such techniques in different branches of science.

Session IV

Day 2 of the conference on April 5th, 2024, started with Session IV at Vasanti Pai Auditorium, Academic Block 3. The session was chaired by Dr. Praveen Kumar Surolia, Department of Chemistry, MUJ. The session had one *plenary* international lecture by **Prof. Urmila Diwekar**, *Vishwamitra Research Institute, USA*, and two



keynote lectures. The first keynote lecture was from Prof. Kantesh Balani, IIT Kanpur, and another was from Prof. Seema Garg, Amity University.

Session V

Session V started after the tea-break, and it was divided into three parallel sessions. Session VA was organized in TSB seminal Hall at Administrative block; Session VB was organised in TMA Pai Auditorium Academic Block 2 (AB2), and Session VC was organized in Vasanti Pai Auditorium, Academic Block 3 (AB3). All the three sessions had two keynote lectures and two invited lectures. Session VA was focussed on track 2 of the conference and chaired by Dr. Sathrugnan Karthikeyan and the talks included from Prof. Kaustubha Mohanty from IIT Guwahati, Professor Kalpit Shah from RMIT Australia, Professor Vinu R from IIT Madras, and Professor Pratik from BITS Pilani. Session VB was focussed on track 3 and track 4, and chaired by Dr. Devershi Pallavi Bhatt, Department of Computer applications, MUJ. Session VC was focussed on track 1 of the conference and it was chaired by Prof. Abhijeet Singh from Department of Biosciences, MUJ.

Session VI

Session VI started after the lunch break on day 2 with two parallel sessions in Vasanti Pai Auditorium AB3 and TMA Pai Auditorium AB2. Each session had one keynote and three invited talks. Session VIA chaired by Prof. M. M. Sharma, Department of Biosciences has talks from track 1 and session VIB chaired by Prof. Susruta Samanta had talks from tracks 2 and track 5.

Poster Session II

The poster session-II on day 1 was conducted in 1AB, Ground Floor lobby. Total 19 poster were from various field of science and Technology mainly Material Science, Computational Techniques, and Biology. The poster session-I was evaluated by distinguished professors Satish Shinde IIT Hyderabad, Prof. Pradeep Kumar, MNIT Jaipur and Prof. Prashant Pawar, RCB Faridabad.

Session VII

Session VII started after the tea-break/Poster Session II and had two parallel sessions in Vasanti Pai Auditorium, AB3 and TMA Pai Auditorium, AB2. The session VIIA was the industry-Academia Session where the Chairman of *Indian Chemical Council (ICC)*, *Industry-Academia Council (IAC)* **Mr Dinesh Chopra** put forward a very deep insight about the required collaborations between academia and Industry for the overall growth of the country. The session was chaired by **Prof. Abhishek Sharma**, *Ramdas Pai Professor Chair, MUJ*.



The parallel session VIIB was an online session where two international invited speakers from UTP Malaysia talked about their research under the conference track 2. The session was chaired by Dr. Sriparna Ray, Department of Chemistry, MUJ.

Technical Session II

In the technical session II on day 2, was again divided into three parallel session TS2A in TMA Pai auditorium chaired by Prof. Shilpa Sharma, Manipal University Jaipur (Session TS2A), Session TS2B in Seminar Hall 105 (AB1) chaired by Prof. K P Mishra, Manipal University Jaipur, and the session TS2C in seminar Hall 307 (AB1) chaired by Prof. Anupam Sharma, Manipal University Jaipur (Session TS2C). Total 25 contributory talks from the various reputed colleges and university faculties focused on Nano-Material Science, Mathematical Sciences, Computational Techniques, Bio and the different branches of science.

Session VIII

Day 3 of the conference on April 6th 2024, started with session VIII at TMA Pai Auditorium AB2, with the *plenary lecture* by **Prof. B. Gopal**, *Indian Institute of Science, Bengaluru* in an online mode followed by two invited lectures. The session was chaired by Prof. Sandeep Kumar Srivastava, Department of Biosciences, MUJ.

Technical Session III

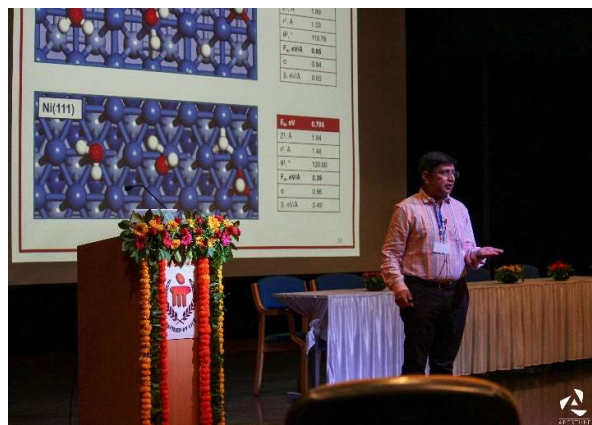
In the technical session III on day 3, was divided into three parallel session TS3A in Sharda Pai auditorium chaired by Prof. Ashish Kumar, Manipal University Jaipur, Session TS3B in Seminar Hall 105 (AB1) chaired by Prof. Mohd. Rizwan, Manipal University, and the session TS3C in seminar Hall 307 (AB1) chaired by Prof. Saikat Chattopadhyay, Manipal University. A total of 45 contributory talks from various prestigious colleges and university faculties on the third day presented the depth of knowledge in our research area and provided insights on many recent issues in material science, mathematics, computational techniques, biology and use of such techniques in various branches of science.

Session IX (Valedictory Session)

The final session of the conference started after the tea-break and the session was hosted by **Dr. Amit Hirawat**. The session was started with the prize distribution for the oral/poster presentations in the three categories in each track of the conference. In total 15 awards were presented in the gold, silver, and bronze category. Convener, **Dr. Anamika Jain** provided the summary of the conference, and the function was ended after the Vote of Thanks by the convener **Dr. Saurabh Srivastava**.

6. Photographs









7. Brochure or creative of the event (insert in the document only)

**MANIPAL UNIVERSITY
JAIPUR**

**A+
NAAC**

**ICCSERB**

4th International Conference
on
**Recent Advances in Material Science and
Computational Techniques**
(RAMSACT-4)
April 04-06, 2024
Organized by
Faculty of Science
in collaboration with
Department of Biotechnology & Chemical Engineering, MUJ

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 the Conference

4th International Conference on "Recent Advances in Materials Science and Computational Techniques" (RAMSACT-4) 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.

Supported by: DST PURSE

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.

Department of Biotechnology and Chemical Engineering

The creation of the Chemical Engineering Department in 2014, following the University's establishment in 2011, represented a pivotal moment in the pursuit of interdisciplinary brilliance. Our department was formed by an assembly of highly qualified faculty members, each boasting substantial industrial and research acumen drawn from various global landscapes. This collective reservoir of expertise meticulously shaped an environment that cultivates inspiration and impels our students toward responsibility and innovation. Subsequently, in 2023, leveraging this foundation, the department expanded its horizons to encompass the realm of biotechnology. As a result, it underwent a transformation, evolving into the Department of Biotechnology and Chemical Engineering. Within a short span of 10 years, the department has published over 100 international journal articles and received a research grant of ~ Rs 15 Cr. This includes a DST-PURSE grant of (Rs 10 Cr) with a strong collaboration with Faculty of Sciences, MUJ.

Collaborative Partners

Chief Patron
Mr S Vaitheeswaran
Chairperson, MUJ

Patron
Dr G K Prabhu
President, MUJ

Co-Patrons
Cmde. (Dr) Jawahar M Jangir
Pro-President, MUJ
Dr Nitu Bhatnagar
Registrar, MUJ

Conference Chair
Dr Lalita Ledwani
Dean, FoS, MUJ
Dr. Ramdas Pal Professor Chair
Dr Abhishek Sharma

Conveners
Dr Mousumi Debnath, Department of Biosciences
Dr Anamika Jain, Department of Mathematics and Statistics
Dr Saurabh Srivastava, Department of Chemistry
Dr Manisha Sharma Department of Biotechnology & Chemical Engineering

Co-Conveners
Dr. Anupam Sharma, Department of Physics
Dr Rekha Jain, Department of Computer Applications

Organizing Secretaries

Dr Rashi Nathawat	Department of Physics
Dr Rajeev Nema	Department of Biosciences
Dr Pramod Soni	Department of Computer Applications
Dr Ankur K. Jain	Department of Mathematics & Statistics
Dr Prathap Somu	Department of Biotechnology & Chemical Engineering

Conference Theme Areas

TRACK 1
Advancements in Biotechnology & Microbiology

- Plant Biotechnology
- Microbial Technology
- Food Biotechnology
- Agriculture Biotechnology
- Environmental and Marine Biotechnology
- Structural Biology
- Bioinformatics and Cancer Biology
- 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 & Energy Storage Materials
- 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 Fee

Attendee	Indian	Overseas
Faculty Member	Rs 3500/-	USD 100/-
Student	Rs 2000/-	USD 50/-
Industrial Representative	Rs 7500/-	USD 200/-



for more details visit the website of
RAMSACT-2024: <https://ramsact.in/>
Manipal University Jaipur
Jaipur-Ajmer Express Highway, Dehri Kalan, Near GVK Toll Plaza, Jaipur, Rajasthan 302007

Advisory Committee

- Prof Ashutosh Sharma, INSA President and Former Secretary
- Prof Seeram Ramakrishna, FRSE National University of Singapore
- Professor Bhajan Lal, Universiti Teknologi Petronas, Malaysia
- Prof Shrish Tiwari, CCMB Hyderabad
- Prof Asis Das, BITS Pilani
- Prof Mitul Mukherjee, IIT Jodhpur
- Prof R.P. Singh, IIT Roorkee
- Prof Y.K. Mishra, Mads Clausen Institute, University of Southern Denmark
- Prof Indra Sulania, Inter-University Accelerator Centre, New Delhi
- Prof Vasant Sathe, Centre Director, University Grant Commission-Department of Atomic Energy Consortium for Scientific Research (UGC DAE CSR) Indore
- Prof R S Dhaka, IIT Delhi
- Prof Susanta Mahapatra, University of Hyderabad
- Prof Rajendra Srivastava, IIT Ropar
- Prof Santosh Patel, Manipal University Jaipur
- Prof Dalip Kumar, BITS Pilani
- Prof Anshu Dandia, Rajasthan University
- Prof Anamik Shah, Rajkot University
- Prof P.M.S. Chouhan, CSIR-CODRI Lucknow
- Prof Srinivas R. Chakravarty, Kettering University, Flint, USA
- Prof Joydip Dhar, IITM Gwalior
- Prof C.K. Jaggi, University of Delhi
- Prof Madhu Jain, IIT Roorkee
- Prof Bapan Ghosh, IIT Indore
- Prof Madhavi Sinha, BIT Mesra, Ranchi, Jaipur Campus
- Prof Basant Agarwal, Central University of Rajasthan
- Prof Vikas Pareek, MGCU, Bihar

Important Dates

Last date of Abstract Submission
March 08, 2024
Acceptance Notification of Abstract
March 15, 2024
Last Date for Registration
March 20, 2024

Publication Partners

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



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8. Schedule of the event (insert in the report)

Recent Advances in Material Science and Computational Techniques (RAMSACT-2024)

Schedule Day 1 (April 4th, 2024)

Inaugural Session (9:45 – 11:20 AM)

Time/ Venue:	Sharda Pai Auditorium, Academic Block 2
8:30 AM – 9:45 AM	Registration
Session Chair: Prof. Lalita Ledwani, Manipal University Jaipur	
9:45 AM – 11:20 AM	Inaugural Session

Tea Break (11:20 AM – 11:40 AM)

Session I (11:40 AM – 12:45 PM)

Session Chair: Prof. Neelima Gupta, University of Rajasthan	
Session Coordinator	Dr. Aman Kumar
Time/ Venue:	Sharda Pai Auditorium, Academic Block 2
11:40 AM – 12:10 AM	Keynote Lecture 1 Prof. Rajendra Srivastava, IIT Ropar
12:15 AM – 12:45 AM	Keynote Lecture 2 Prof. Ashwani Kumar Tiwari, IISER Kolkata

Lunch Break (12:45 PM – 2:00 PM)

Session Chair: Prof. Rahul Shrivastava, Manipal University Jaipur (Session IIA)		Session Chair: Prof. Kalpana Sharma, Manipal University Jaipur (Session IIB)
Session Coordinator	Dr. Manoj Saini	Dr. Bhoopendra Pachuri
Time/ Venue:	Sharda Pai Auditorium, AB2	Vasanti Pai Auditorium, AB3
2:00 PM – 2:30 PM	Keynote Lecture 3 Prof. D K Maiti, Biswa Bangla Bisbidyalaya	Keynote Lecture 5 Prof. Madhu Jain, IIT Roorkee
2:35 PM – 3:05 PM	Keynote Lecture 4 Prof. Bhajan Lal UTP Malaysia	Keynote Lecture 6 Prof. C K Jaggi, Univ. of Delhi
3:10 PM – 3:30 PM	Invited Lecture 1 Prof. Manav Saxena, Jain Univ. Bangalore	Invited Lecture 3 (Online) Prof. Phani Motamarri, IISc Bangalore
3:35 PM – 3:55 PM	Invited Lecture 2 Dr. Shathrugnan Kartikeyan, Frontiers Laboratories, Japan	Invited Lecture 4 Prof. Chandra Shekhar, BITS Pilani

Session II (2:00 PM – 3:50 PM)

Tea Break/Poster Session* I (3:55 PM – 4:30 PM)

Session III (4:30 PM – 5:15 PM)

Technical Session* I

Session Chair: Prof. Mousumi Debnath, Manipal University Jaipur (Session IIIA)		Session Chair: Prof. Anees Ahmed Yunus Khan, Manipal University Jaipur (Session IIIB)
Session Coordinator	Dr. Diksha Srivastava	Dr. Aman Kumar
Time/ Venue:	Sharda Pai Auditorium, AB2	Seminar Hall 105, AB1
4:30 PM – 4:50 PM	Invited Lecture 5 Prof. Nidhi Pareek, CURAJ	Invited Lecture 7 (Online) Prof. Dzulkarnain Saini, UTP Malaysia
4:55 PM – 5:15 PM	Invited Lecture 6 (Online) Prof. Ashish Das, BITS Pilani	Invited lecture 8 (online) Prof. Khairul A. Jumbri, UTP Malaysia

Dinner (7:00 PM- 9:00 PM)

	Session Chair: Prof. Nitesh Poddar (Session TS1A)	Session Chair: Prof. Naveen Kumar Singh (Session TS1B)	Session Chair: Prof. Richa Sharma, JKLU (Session TS1C)
Session Coordinator	Dr. Shatrunjai Giri	Dr. Aman Kumar	Dr. Ayush Tripathi
Time/ Venue:	Sharda Pai Auditorium, AB2	Seminar Hall 105, AB1	Seminar Hall 307, AB1
5:15 PM – 5:30 PM	Contributory Talk 1	Contributory Talk 6	Contributory Talk 11
5:30 PM – 5:45 PM	Contributory Talk 2	Contributory Talk 7	Contributory Talk 12
5:45 PM – 6:00 PM	Contributory Talk 3	Contributory Talk 8	Contributory Talk 13
6:00 PM – 6:15 PM	Contributory Talk 4	Contributory Talk 9	Contributory Talk 14
6:15 PM – 6:30 PM	Contributory Talk 5	Contributory Talk 10	Contributory Talk 15

End of Day 1

Day 2 (April 5th, 2024)

Session IV (9:15 AM – 11:00 AM)

Session Chair: Prof. Praveen Kumar Surolia, Manipal University Jaipur Anjani Kumar Pandey	
Session Coordinator	Dr. Anjani Pandey
Time/ Venue:	Vasanti Pai Auditorium, AB3
9:15 AM – 9:55 AM	Plenary Lecture 1 (Online) Prof. Urmila Diwekar, VRI USA
10:00 AM – 10:30 AM	Keynote Lecture 7 Prof. Kantesh Balani, IIT Kanpur
10:35 AM – 11:05 AM	Keynote Lecture 8, Prof. Seema Garg, Amity University



Tea Break (11:05 AM – 11:20 AM)

Session V (11:20 AM – 01:15 PM)

Session Chair: Dr. S. Karthikeyan, Frontiers Laboratories Ltd. (Japan) (Session VA)		Session Chair: Prof. Devershi Pallavi Bhatt, Manipal University Jaipur (Session VB)		Session Chair: Prof. Abhijeet Singh, Manipal University Jaipur (Session VC)	
Session Coordinator	Dr. Prathap Somu	Dr. Vaibhav Bhatnagar	Dr. Indresh Maurya		
Time/ Venue:	TSB Seminar Hall, 2nd floor, Admin Block	TMA Pai Auditorium. AB2	Vasanti Pai Auditorium, AB3		
11:20 AM – 11:50 PM	Keynote Lecture 9 Prof. Kaustubha Mohanty, IIT Guwahati	Keynote Lecture 11 Mr. Shailesh Goswami Foyr, Pune	Keynote Lecture 13 Prof. Shrish Tiwari, CCMB Hyderabad		
11:55 PM – 12:25 PM	Keynote Lecture 10 (Online) Prof. Kalpit, RMIT Australia	Keynote Lecture 12 Prof. Vikas Pareek MGCU, Bihar	Keynote Lecture 14 Prof. Kulwant Singh, SGPGI Lucknow		
12:30 PM – 12:50 PM	Invited Lecture 9 Prof. Vinu R, IIT Madras	Invited Lecture 11 Prof. Bapan Ghosh, IIT Indore	Invited Lecture 13 Prof. Akhil Agarwal, CURAJ		
12:55 PM – 1:15 PM	Invited Lecture 10 (online) Prof. Pratik, BITS Pilani	Invited Lecture 12 Prof. U C Gupta, IIT Kharagpur	Invited Lecture 14 Prof. Prabhat Jha, BITS Pilani		

Lunch Break (1:15 PM – 2:00 PM)

Session VI (2:00 PM – 4:00 PM)

Session Chair: Prof. M. M Sharma, Manipal University Jaipur (Session VI A)		Session Chair: Prof. Susruta Samanta, Manipal University Jaipur (Session VI B) Sushil Sir	
Session Coordinator	Dr. Rajeev Nema	Dr. Sushil Kumar	
Time/ Venue:	Vasanti Pai Auditorium, AB3	TMA Pai Auditorium AB2	
2:00 PM – 2:30 PM	Keynote Lecture 15 Prof. Ashok Kumar, AIIMS Bhopal	Keynote Lecture 16 Prof. Susanta Mahapatra, UoHyd	
2:30 PM – 2:50 PM	Invited Lecture 15 Prof. Nita Parekh, IIIT Hyderabad	Invited Lecture 18 Prof. Pradeep Kumar, MNIT Jaipur	
2:50 PM – 3:10 PM	Invited Lecture 16 Prof. Prashant Pawar, RCB Faridabad	Invited Lecture 19 Prof. Satish Shinde IIT Hyderabad	
3:10 PM – 3:30 PM	Invited Lecture 17 Prof. Shankar Manoharan, IIT Jodhpur	Invited Lecture 20 Prof. Nilanjan Halder, Manipal University Jaipur	
3:30 PM – 4:00 PM	Sponsors Event		



Tea Break/Poster Session* II (4:00 PM – 4:30 PM)

Session VII

Session Chair: Prof. Abhishek Sharma, Manipal University Jaipur (Session VIIA) Prathap Somu Sir		Session Chair: Prof. Sriparna Ray, Manipal University Jaipur (Session VIIB) Amrita Biswas
Session Coordinator	Dr. Prathap Somu	Dr. Amrita Biswas
Time/ Venue:	Vasanti Pai Auditorium, AB3	TMA Pai Auditorium AB2
4:30 PM – 4:50 PM	Industry-Academia Session Mr. Dinesh Chopra, Chairman, ICC, IAC	Invited Lecture 23 (online) Prof. Hayyiratul Fatimah, UTP Malaysia
4:55 PM – 5:15 PM		Invited Lecture 24 (online) Prof. Noridah Binti Osman, UTP Malaysia

Technical Session* II

	Session Chair: Prof. Shilpa Sharma, Manipal University Jaipur (Session TS2A)	Session Chair: Prof. K P Mishra, Manipal University Jaipur (Session TS2B)	Session Chair: Prof. Anupam Sharma, Manipal University Jaipur (Session TS2C)
Session Coordinator	Dr. Ashutosh Pandey	Dr. Sushil Kumar	Dr. Anjani Kumar Pandey
Time/ Venue:	TMA Pai Auditorium AB2	Seminar Hall 105, AB1	Seminar Hall 307, AB1
5:15 PM – 5:30 PM	Contributory Talk 16	Contributory Talk 21	Contributory Talk 26
5:30 PM – 5:45 PM	Contributory Talk 17	Contributory Talk 22	Contributory Talk 27
5:45 PM – 6:00 PM	Contributory Talk 18	Contributory Talk 23	Contributory Talk 28
6:00 PM – 6:15 PM	Contributory Talk 19	Contributory Talk 24	Contributory Talk 29
6:15 PM – 6:30 PM	Contributory Talk 20	Contributory Talk 25	Contributory Talk 30

Dinner (7:00 PM- 9:00 PM)

End of Day 2

Day 3 (April 6th, 2024)

Session VIII

Session Chair: Prof. Sandeep Kumar Srivastava, Manipal University Jaipur	
Session Coordinator	Dr. Rajeev Nema
Time/ Venue:	TMA Pai Auditorium AB2
9:30 AM – 10:10 AM	Plenary Lecture 3 (online) Prof. B. Gopal, IISc Bangalore
10:15 AM – 10:35 AM	Invited Lecture 25 Prof. Tikam Dakal, MSU Jodhpur



Tea Break (11:00 AM – 11:15 AM)

Session IX (11:00 AM – 01:30 PM)

	Session Chair: Prof. Ashish Kumar, Manipal University Jaipur (Session IXA)	Session Chair: Prof. Mohd. Rizwan, Manipal University Jaipur (Session IXB)	Session Chair: Prof. Saikat Chattopadhyay, Manipal University Jaipur (Session IXC)
Session Coordinator	Dr. Bijinder Singh	Dr. Sathi Sharma	Dr. Ashok Mondal
 Time/ Venue:	TMA Pai Auditorium AB2	Seminar Hall 105, AB1	Seminar Hall 307, AB1
11:15 AM – 11:30 AM	Contributory Talk 31	Contributory Talk 35	Contributory Talk 39
11:30 AM – 11:45 AM	Contributory Talk 32	Contributory Talk 36	Contributory Talk 40
11:45 AM – 12:00 PM	Contributory Talk 33	Contributory Talk 37	Contributory Talk 41
12:00 PM – 12:15 PM	Contributory Talk 34	Contributory Talk 38	Contributory Talk 42

Session X (11:00 AM – 01:30 PM)

 Time/ Venue:	TMA Pai Auditorium AB2
12:15 PM – 12:45 PM	Poster Prize Distribution
12:45 PM – 1:15 PM	Valedictory Function

End of the Conference with Lunch (1:00 PM Onwards)

*Visit www.ramsact.in for the detailed Schedule of Contributory Talks and Poster Sessions.

9. Attendance of the Event (insert in the document only)

Total attendee N/A



12. Link of MUJ website stating the event is uploaded on website

<https://ramsact.in/>

Seal and Signature of Head with date