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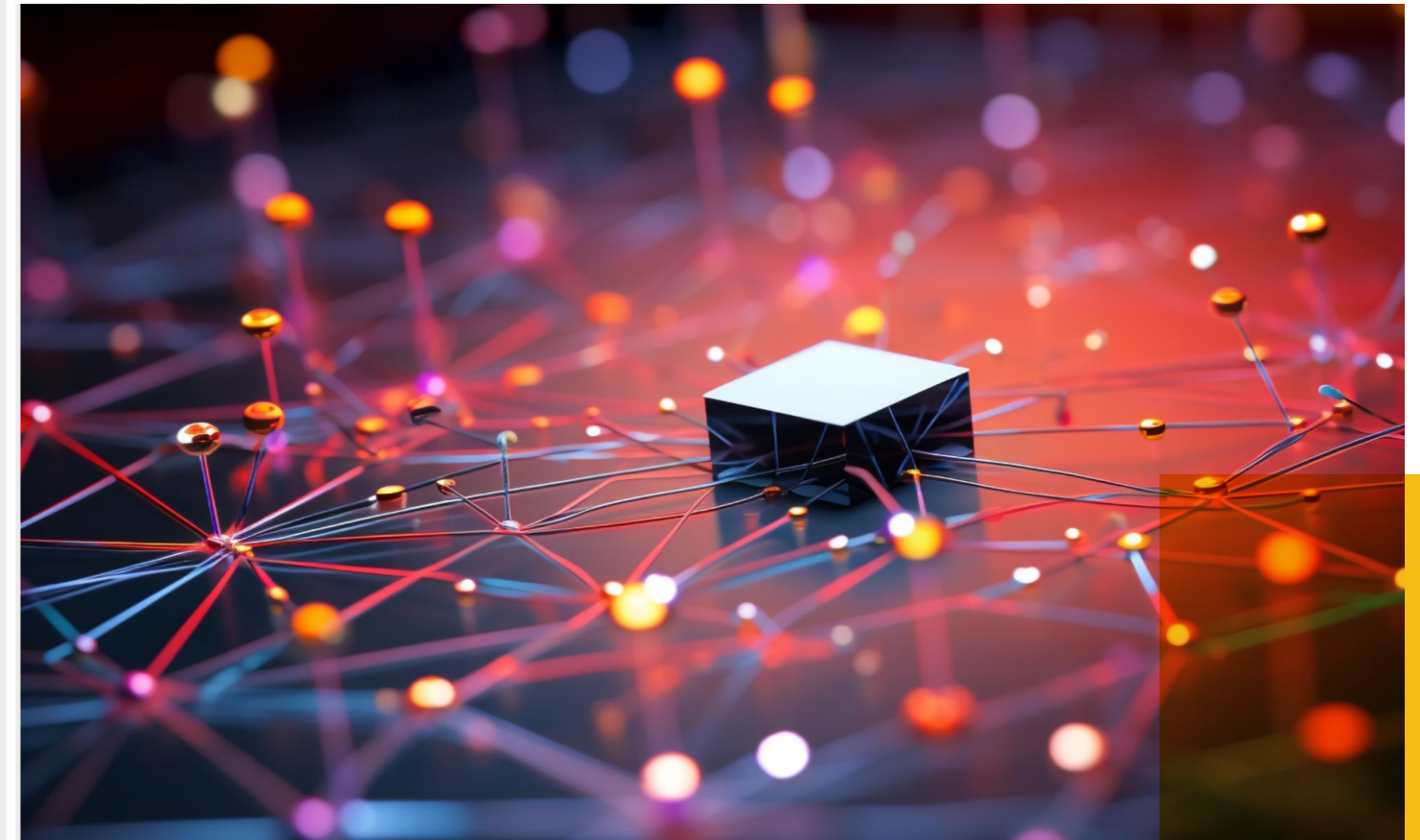
IT Team, ARKA Jain University, Jharkhand

Address:

Opp. To Kerala Public School, Mohanpur, Gamharia
Dist. SeraikelaKharsawan, Jharkhand - 832108



ARKA JAIN
University
Jharkhand



School of Engineering and IT

Organizes

International Conference on
**RECENT & TECHNOLOGICAL
ADVANCES IN PHYSICS AND
MATERIAL SCIENCE (ICRTAPMS 2024)**

Hybrid Mode _____

29th – 30th APRIL 2024

ABOUT JGI

JGI Group is an education provider and an entrepreneurship incubator in India. The Group successfully operates 85 educational institutions with 51,600 students and 6,450 employees engaged at the K-12, undergraduate and postgraduate levels spread across 64 campuses pan India. A leader in the education sector and a pioneer in the venture sector, JGI Group is constantly in search of new opportunities to expand its horizon.

ABOUT ARKA JAIN UNIVERSITY

An academic institute ought to set its vision of high noted academic, intellectual and entrepreneurial development. ARKA JAIN University (AJU), Jharkhand is committed to human development at all levels through education and entrepreneurship. It provides quality education thereby creating human assets for the nation and the globe as well. AJU is a premier private university of Jharkhand with a venerable legacy of the JGI group sprinting ahead the national acclamation for noted academic standards, diverse educational programs, distinguished faculties, varied co- curricular activities and state-of-the-art infrastructures. The University is on the way to sustain the acclaimed standards and best practices in higher education. It is committed to nation building and unflinching adherence to universal human values. The sprawling university spreads across 25 acres of lush green land leaving no stone unturned in providing state-of- the-art facilities in various sectors including education, sports, entrepreneurship, research, and other academic ventures. The campus of the University is situated at Mohanpur, Gamharia, Dist: Seraikela – Kharsawan, 13 km from the steel city, Jamshedpur. Popularly known as Tatanagar, named after the visionary industrialist Shri J.N. Tata, founder of TATA Groups. The magnificence of the university, as it aids each, lies in the enhancement of various courses with leaps and bounds.

ABOUT ENGINEERING & IT

AJU School of Engineering & Information Technology is established with an aim to provide quality education and entrepreneurship development. ARKA JAIN University is an intellectual destination that draws inspired students from diverse

backgrounds. Bachelor of Technology (B.Tech) Programme in AJU is an AICTE approved professional Engineering degree. The duration of the programme is 4 Years, Which is offered in 5 different disciplines. Our B.Tech program offers a variety of course that involve theoretical and practical learning in equal measure. It is one of the most preferred Programmes and in great demand by the students looking forward to molding their interest and ambition not only in India and abroad aiming for lucrative careers. As this professional Programme has made developments & created numerous opportunities in the field of engineering and information Technology. The university is committed to provide excellent Academic curriculum, Laboratory facilities, Workshops, Seminars, Assignments, Industrial visits, and Opportunities for various Experiments, Research and Placement support.

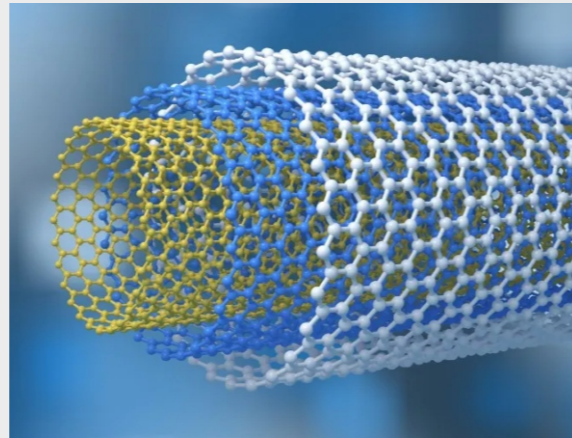
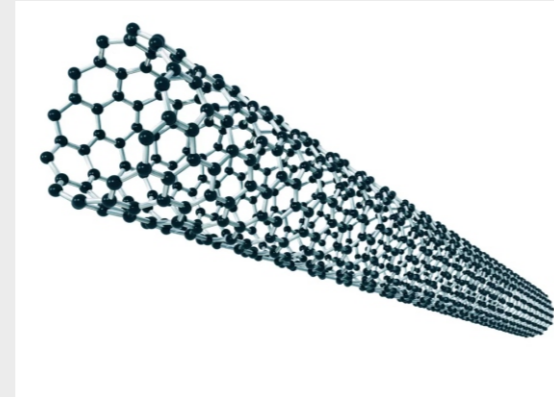
ABOUT THE CONFERENCE

The International Conference on “Recent and Technological Advances in Physics and Material Science(ICRTAPMS 2024) is jointly organized by the Department of Electrical & Electronic Engineering and Mechanical Engineering, School of Engineering & IT of ARKA JAIN University. The conference topic is multifacet which covers the recent & advance development in many applications. The International Research Conference is a federated organization dedicated to bring together a significant number of diverse scholarly presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations. With its high quality, it provides an exceptional value for students, academics and industry researchers.



OBJECTIVES OF THE CONFERENCE

The International Conference on “Recent and Technological Advances in Physics and Material Science (ICRTAPMS 2024)” aims to bring together leading academic scientists, researchers and research scholars to exchange and share their experiences and research results on all aspects of Technical advancement of Physics and Material science . 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 of Physics and Material Science.



CALL FOR PAPERS

Prospective authors are kindly encouraged to contribute and help to shape the conference through submissions of their research abstracts, papers and e-posters. Also, high quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental, or theoretical work in all areas of Science, Engineering and Technology are cordially invited for presentation at the conference. The conference solicits contributions of abstracts, papers and e-posters that address themes and topics of the conference, including figures, tables and references of novel research materials. Authors from Material Science, Mechanical Engineering, Civil Engineering, Chemical Engineering, Manufacturing, Mining Engineering, Physics, Chemistry, Nano technologies, Biomaterial technologies, Textile Engineering, Polymer Science, etc. branches describing research, reviews and applications are invited to submit their research papers.

The conference will involve presentations by experts on various areas of Physics and Material Science which include but not limited to following topical themes:

The scope of the conference covers:

PHYSICS

- **Astroparticle Physics**
- **Atomic & Molecular Physics**
- **Particle Physics**
- **Quantum Physics**
- **Nuclear Physics**
- **Material Physics**
- **Lasers, Optics & Photonics**
- **Polymer physics**
- **Condensed Matter Physics**
- **Nano-Physics**
- **Nonlinear Science**
- **Relativity**
- **Thermodynamics**
- **Statistical Physics**
- **Computational Physics**
- **Mathematical Physics**
- **Econophysics**
- **Instruments & Instrumentation**
- **Acoustics**
- **Plasma Physics**
- **Fluid Physics**
- **Biophysics**
- **Chemical Physics**
- **Radiation Physics**
- **Geophysics**
- **Quantum Materials**
- **Semiconductor and Related Materials**
- **Nano photonics**
- **Biophotonics**
- **Quantum optics**
- **Plasma Surface and Thin Film**
- **Quantum Computing**
- **Optical & Quantum Electronics**
- **Legal Control and Recent Technological advancement in Physics and Material Science**
- **Environmental Challenges Due to Recent Advancement in Technology**

75%
(3/4)

MATERIAL SCIENCE

- **Robotics & Automation**
- **Material Science & Smart Materials**
- **Energy Conservation and Management**
- **Computational Fluid Dynamics**
- **Manufacturing Technology**
- **Vibration and Tribology**
- **Production Engineering**
- **Fluid Mechanics and Hydraulic Machinery**
- **Materials Science**
- **Materials Engineering**
- **Materials Processing and Applications**
- **Nanomaterials and Nanotechnology**
- **Materials in Research**
- **Ceramics and Composite Materials**
- **Polymer Science and Technology**
- **Smart & Hybrid Materials**
- **Metallurgy and Metal Science**
- **Materials for Pharmacology and Biomedical Application**
- **Materials and Structural Elements for Construction Engineering and Architecture**
- **Photovoltaics and Electrochemistry Engineering**
- **Technologies for Environmental Engineering and Waste Recycling**
- **Heat Transfer and RAC**

GUIDELINES FOR PAPER SUBMISSION

Prospective authors are kindly encouraged to contribute to and help shape the conference through submissions of their research abstracts, papers and e-posters. Also, high quality research contributions describing original and unpublished results of conceptual, constructive, empirical, experimental, or theoretical work in all areas of Science Engineering and Technology are cordially invited for presentation at the conference. The conference solicits contributions of abstracts, papers and e-posters that address themes and topics of the conference, including figures, tables and references of novel research materials. Authors from Material Science, Mechanical Engineering, Civil Engineering, Chemical Engineering, Manufacturing, Mining Engineering, Physics, Chemistry, Nano technologies, Biomaterial technologies, Textile Engineering, Polymer Science, etc. branches describing research, reviews and applications are invited to submit to research the papers

The conference will involve presentations by experts on various areas of Physics and material science which include but not limited to following topical themes:

The scope of the conference covers:

GUIDELINES FOR PAPER SUBMISSION

Papers must be based on themes and sub-themes of the conference.

- Submission of paper should be in word doc format only.(For Paper Template:
- Page Limit: Not to exceed 6 pages including all references, tables and figures.
- Page size: A4 size only
- Text Column: Single texts align: justify
- Title: 24pt Times New Roman align: centre
- Page Margins: Left – 0.51”, Right – 0.51”, Top – 0.75”, Bottom – 0.75”
- Font: Use Only Times New Roman for whole paper
- Figure caption: Font size- 10”, lower case and Write below the figure, position-center

Table Caption: Font- 10", lower case and Top of the table, position-center

Paragraph: Paragraph Indentation by- 0.2"

Line Spacing: single

Before: 0" After: 0"

Header 0.3" footer 0"

The papers will be blind reviewed and only those approved by the reviewers will be selected for publication.

Paper must be sent through mail: conference.soe@arkajainuniversity.ac.in

REGISTRATION LINK

Please register to participate in the conference by using the link:

<https://forms.gle/e1jdEmoBfm5YXT5R9>

CONFERENCE LINK

<https://ajuconference.netlify.app/>

REGISTRATION FEE

DELEGATES	INDIAN	FOREIGN
Corporates/Industry Experts	Rs. 3000/-	USD 36
Faculty/Academicians	Rs. 1500/-	USD 18
Research Scholars	Rs. 1000/-	USD 7
Students/Co-Author	Rs. 500/-	USD 7
Participation	Rs. 200/-	USD 2.4

PUBLICATION FEE

The registration fee includes the cost of publications in UGC Care List Journal.

The outstanding papers in extended form (selected by Reviewer Committee) will be communicated to SCI/SCOPUS Indexed Journal and the publication charges for such research papers will be borne by respective authors.

PAYMENT DETAILS

Online Transfer / Bank Transfer

Bank Name : Bank of Maharashtra

Branch Name : Bistupur

Account Name : ARKA JAIN UNIVERSITY

Account Number : 60273286728

IFSC Code : MAHAB001241

IMPORTANT DATES

Last Date for Submission of Full Paper : 18/04/2024

Notification of Acceptance of Full Paper : 23/04/2024

Last Date for Registration : 25/04/2024

BEST PAPER AWARD

Best Research Papers will be awarded

VISION OF THE UNIVERSITY

To be among the best of the institutions for engineers and technologists with attitudes, skills and knowledge and to become an epicenter of creative solutions.

MISSION OF THE UNIVERSITY

To achieve and impart quality education with an emphasis on practical skills and social relevance.

RESOURCE PERSON

Session will be handled by eminent Persons from reputed institutes/ Organisations.

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Research Fellow (Solar Energy Research Group) - Faculty of Environment,
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SPECIAL INVITED SPEAKER**Dr. Pramod Hiralal Borse** (FRSC)

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