

NATIONAL CONFERENCE

ON RECENT ADVANCES IN QUANTUM SCIENCE & TECHNOLOGY (NCRAQST -2024)

Organized by - **Faculty of Applied Sciences in association with IQAC**
Sarala Birla University, Ranchi, Jharkhand (India)

 **16th - 17th February, 2024**

 **Sarala Birla University, Ranchi**

About Sarala Birla University

Sarala Birla University is a self-financed private unitary university. The Sarala Birla University Act, 2017 (Jharkhand Act, 13, 2017) has been passed by the Legislative Assembly of Jharkhand in 2017. The Sarala Birla University Act 2017 has been published in the Jharkhand Gazette on 4th July vide the Law Department Notification No. 504 dated 4th July 2017. The SBU, Ranchi campus is situated amidst the verdant surroundings, stretching over nearly 60 acres of land owned by Bharat Arogya & Gyan Mandir at Birla Campus, Vill - Ara, P.O. – Mahilong, Ranchi-Purulia Highway, Ranchi, Jharkhand, India.

SBU aims to be a global leader by creating a knowledge economy where there would be an integration of academia and industry to nurture leaders who are closely connected to the roots and are creative, enlightened and dynamic. University believes in building an egalitarian global society based on national integrity, equality, social justice through various modes of teaching-learning process.

About Faculty of Applied Sciences

Faculty of Applied Sciences has a vision to impart international standard quality education in the field basic sciences and become globally recognized as center of excellence in learning, teaching and research in fundamental science and technology. Faculty of Applied Sciences has three academic departments: Department of Physics, Department of Chemistry & Department of Mathematics that participates in Diploma, B. Tech and BCA programs offered by the university. Presently, Department of Mathematics offers full time courses like three-year B Sc. (Hons.) Mathematics program. Academic departments under Faculty of Applied Sciences have advanced laboratory equipped with all engineering equipment's to support the practical knowledge of basic sciences for graduate level students.

The department has well qualified and experienced faculty members actively involved in various domain of research (Nanotechnology, Theoretical Photonics, solute transport modeling, ground water contamination, fluid dynamics, convection in nano fluid, numerical computation, moving boundary value problems, fractional calculus, laminar free convection & heat transfer through porous medium, differential equation, chemical kinetics and environmental chemistry etc) and maintain other curricular activities for the development of the scientific community.

About the National Conference

The National Conference on Recent Advances in Quantum Science & Technology (NCRAQST-2024) organized by Faculty of Applied Sciences in association with Internal Quality Assurance Cell (IQAC), SBU Ranchi Sponsored by "Jharkhand Council on Science Technology and Innovation, Ranchi" is from 16-17th Feb, 2024. This conference aims to promote collaborative excellence between academicians, researchers, engineers, scientists and industry experts. 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 in the field of Quantum Science & Technology. Further, this conference will focus and cover the latest research and development in areas of Quantum Optics, Quantum Chemistry, Quantum Field Theory, Non-Hermitian Quantum Physics, Quantum Computing, Quantum Materials and its Applications, Optoelectronic Quantum Devices & Quantum technology but not limited to allied interdisciplinary field of research and innovation. NCRAQST-2024 will promote collaboration and scientific progress, which leads to brighter future of young minds through the convergence of the areas covered in the conference.

Objectives

1. To bring leading experts include Physicists, Chemists, Mathematicians, Computer Scientists, and Engineers at single platform.
2. To encourage interactions of different disciplines in Quantum Sciences among UG/PG/Research Scholars/Faculty Members with leading experts.
3. To motivate young minds and ignite them on the theme of research.
4. To address the innovative approaches for solving different research problems associated with Quantum Science and Technologies (QST).

Registration Fee & Important Dates

Category	Reg. Fee (Rs.)
Academician	1400/-
Research Scholar	1200/-
Student U.G & P.G. (Outside)	500/-
Student U.G & P.G. (SBU)	400/-
Abstract Submission Start	20-12-2023
Abstract Submission Deadline	25-01-2024
Confirmation of Acceptance of Abstract	30-01-2024
Full Paper Submission Deadline	05-02-2024
Deadline for Registration	05-02-2024

BROAD AREAS TO BE COVERED

Prospective authors are encouraged to contribute and help to shape the conference through submission of research articles. High quality research describing original and unpublished work in all the below mentioned areas are invited for submission in the conference.

E-mail ID for Paper submission: conference@sbu.ac.in

1. Applied Physics
2. Quantum Optics
3. Quantum Chemistry
4. Quantum Field Theory
5. Non-Hermitian Quantum Physics
6. Quantum Computing
7. Quantum Materials and its Applications
8. Optoelectronic Quantum Devices
9. Quantum Technology & Fabrication
10. Nano - Electronics

For Registration use the Link:

<https://forms.gle/ngTdguTvExNJdMG99>

Registration QR Code:



Payment Link:

<https://sbu.ac.in/ncraqst2024.html>

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Abstract & Research Paper Submission Guidelines

Authors are requested to prepare their abstract and paper submissions and send a soft copy through email at conference@sbu.ac.in. The authors are requested to adhere to the following guidelines.

1. Every paper must be accompanied by a cover page, which should include the title of the paper, name(s) of the author(s) and their affiliations, resident country, and the complete postal and e-mail addresses and telephone numbers of the authors.
2. The research papers should be in a word document format, Times New Roman, 12- point font size with 1.5 line spacing, 1-inch margins, and APA style of referencing.
3. Abstracts should be 250 to 300 words. At least 5 keywords should be mentioned.
4. Every paper must contain the following: Abstract with keywords, Introduction, Methodology, Result & Discussion, Conclusion, Acknowledgment & References as per the given template available at the University Website www.sbu.ac.in

The Institute has a strict anti-plagiarism policy; therefore, the authors must ensure the originality of the work. Selected candidates will be informed through mail. The decision of the Review Committee regarding the selection of papers will be final.

Important Note:

- Selected peer reviewed papers may be published in conference proceedings of reputed Journal.
- Participants has to arrange their own accommodation on payment basis at the respective nearest hotels.
- The publication fees, if applicable, will be charged separately, as per publisher norms.
- Registration fee includes registration kit, tea, lunch during conference, presentation certificate and conference abstract book.
- Only oral presentation is acceptable.
- In case of unavoidable conditions, participants may give presentation in online mode.

For more details about the conference, scan the below mentioned QR code.



In case of any further queries, please contact:

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