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MOE'S INNOVATION CELL

INSTITUTION'S INNOVATION COUNCIL

SARALA BIRLA UNIVERSITY, RANCHI (IC202428412)

B-PLAN PITCH: DEMO DAY/EXHIBITION OF BUSINESS PLANS & LINKAGE WITH INNOVATION AMBASSADORS/EXPERTS FOR MENTORSHIP SUPPORT.

OVERVIEW

Objective: To encourage discussion on how quantum technology to solve challenges in technology.	**Benefit in terms of learning/Skill/Knowledge obtained:** Knowledge of technology based start-up & funding opportunity.
Academic Year: 2024-25	**Program driven by:** IIC Calendar Activity
Month:	**Program /Activity Name:** B-Plan Pitch: Demo Day/Exhibition of Business Plans & linkage with Innovation Ambassadors/Experts for Mentorship Support.
Program Type:	**Other:**

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Level 1 - Mentoring Session	null
Program Theme:	**Other:**
Innovation & Design Thinking	NA
Date & Duration (Days):	**External Participants, If any:**
03/10/2025-03/10/2025-0	null
Student Participants:	**Faculty Participants:**
158	25
Expenditure Amount, If any:	**Remark:**
25000	null

ATTACHMENTS

Video:	null
Photograph1:	
Photograph2:	
Session plan, If any:	View Report

This report is electronically generated against report submitted on Institution’s Innovation Council Portal.

The International Confluence on Quantum Science and Technology (ICQST-2025) was organized by Faculty of Applied sciences, SBU Ranchi in association with Internal Quality Assurance Cell (IQAC) and Institute Innovation Council (IIC) on 10th March, 2025. The confluence started with registration procedure near to G. D. Birla auditorium on 10.03.2025. Registration of participants was done between 10:00–11:00 am. Inaugural function was started at 11 am hosted by **Dr. Priyanka Srivastava**, Assistant professor, Department of CSE & CA. Inaugural function began with the lighting of the lamp and the university Kulgeet by the dignitaries.

Dr. Priyanka Srivastava welcomed all the guests present for inaugural function. The dignitaries present for the inaugural function were honourable chief guest, Prof. (Dr.) Gopal Pathak, Hon'ble Director General, SBU, Guest of honour was Prof. C. Jeganathan, Hon'ble Vice Chancellor, SBU, Respected keynote speaker, Dr. Alok Chaturvedi, Professor, Department of Computer Science, Purdue University, United States and Dr. Kuntal Mukherjee, Assistant Professor, Department of CSE, BIT (Lalpur Unit), Dr. Pankaj K. Goswami, Dean, Faculty of Engineering & Applied Sciences.

Dr. Pankaj K. Goswami, Dean of Engineering and Applied Sciences, SBU Ranchi delivered the welcome address where he welcomed all the respected dignitaries, faculty members and participants. He explained meaning of quantum and further discussed the importance of confluence theme for the development of science & technology. He also highlighted that a national mission has been launched by Indian government with the proposal to invest Rs 8000 crores to boost research and development in national quantum mission (NQM) in India. At last, he concluded his address by briefly presenting the preamble of the confluence wherein he emphasized the fact that the confluence stands as a platform to bring together the researchers in the field of quantum science & technology for the benefit of the society.

Hon'ble Vice Chancellor, Prof. C. Jeganathan, Sarala Birla University delivered the presidential remarks. He mentioned various dimensions of the development of quantum computing and explained how quantum science in used in daily life applications like transistors, semiconductor industry, etc. He further discussed the challenges that come in building quantum computing. At last, he wished that the ICQST-2025 may give a greater insight for the researchers working in the field of quantum science and technology.

The technical session-1 was started at 11.35 PM in the G. D. Birla Auditorium of the Sarala Birla University. The technical session began with the invited talk of Hon'ble Director General, **Prof. (Dr.) Gopal Pathak, Sarala Birla University.** He delivered his talk on "Introduction to Quantum Science & Technology". He has discussed different terminology of quantum physics. He further discussed possible

connections between the classical and quantum theory with several applications in MRI, Telepathy, Quantum computers etc. The session continued with the second invited talk delivered by **Dr. Kuntal Mukherjee**, Assistant Professor, Department of CSE, BIT Extension Centre, Lalpur, Ranchi. He delivered talk on "Quantum Computing, Application of IBM Qiskit". He has discussed about quantum world, quantum machine learning, superposition, tunneling etc. Additionally, he also discussed Quantum information software kit (QISKIT) with future applications of quantum computing.

Technical session-2 was started at 2:00 PM hosted by Dr. V.N Lakshmi Durga, Assistant Professor, Department of Mechanical Engineering. She started the Technical with the introduction and felicitation of respected keynote speaker Dr. Alok Chaturvedi, Professor, Department of Computer Science, Purdue University. The keynote address was followed by the poster presentation session.

Dr. Alok Chaturvedi, Professor, Department of Computer Science, Purdue University delivered his keynote address on "Quantum Decision-Making: Decoding Biases and Paradoxes with Quantum Computing". He discussed an overview of classical and quantum decision theories and their limitations of quantum computing. He further explains how phenomena such as the Allais and Ellsberg paradoxes highlight the need for more sophisticated models. At last, he discussed the role of explainable AI in interpreting complex model behaviours, thereby guiding further refinements in quantum computing.

The list of participants contributed for poster presentation in ICQST-2025 are mentioned below:

S. No.	Paper Title with presenting Author
1.	Nanorobots Oscillator- **Aaisha Parveen, Anshu Kumar**
2.	Material Science and Quantum Physics- **Kumar Ashutosh**
3.	IoT based solar power monitoring and data logger system – **Uttam Kumar & Rima Kumari**
4.	Quantum Optics - **Jayalakshmi**
5.	Quantum Mechanics- **Ankita Mishra**
6.	Atomic Clock – **Rizwan Alam**
7.	Black hole-**Ayush Kumar Singh & Keshav Kumar**
8.	Black body radiation-**Akancha Keshri & Shruti Jha**

Finally, the report presentation of ICQST-2025 was done by Dr. Pintu Das, Assistant Professor, Department of Mathematics, SBU Ranchi. The best poster session award of the ICQST-2025 was given two yound minds:

1. IoT based Solar Power Monitoring & Data Logger System by **Uttam Kumar & Rima Kumari**.
2. Nanorobots by **Aaisha Parveen & Anshu Kumar**.

The valedictory session came to its end with a warm expression of gratitude by **Dr. Nitya Garg,** Assistant Professor, Department of Physics wherein she thanked each and every person involved directly and indirectly in organising ICQST-2025 and making this event a grand success.

Dr. Nitya Garg (12/3/25)

(Name & Signature)

[DEAN/HOD/ CONVENOR OF ACTIVITY]