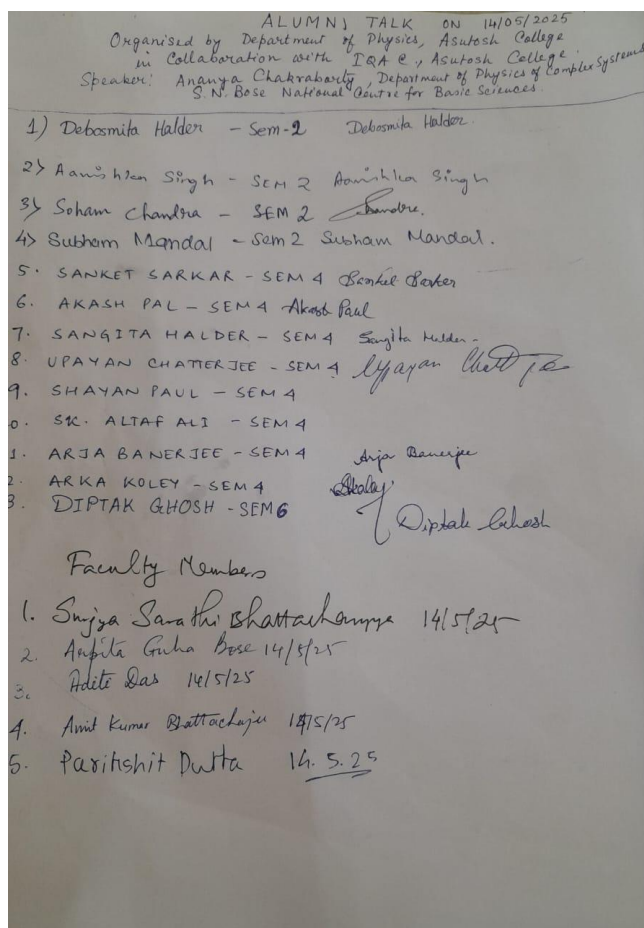


Detailed Report

- **TITLE OF EVENT/ PROGRAMME (SEMINAR/ WEBINAR/ WORKSHOP/ EXTENSION LECTURE/ EXTENSION ACTIVITY/ ANY OTHER ACTIVITY):** Lecture
- **THEME OF THE EVENT/ PROGRAMME:** Alumni Talk
- **ACADEMIC SESSION:**2024-25.
- **DATE:**14.05.2025 (Wednesday)
- **VENUE:** Prof. CR Basu Memorial Computer Laboratory (Room No. 24).
- **OBJECTIVE/ PURPOSE:** to aware the students with current research on Physics and to interact with our alumni.
- **SPEAKER/S / RESOURCE PERSON/S:** Ananya Chakraborty, Department of Physics of Complex Systems, S. N. Bose National Centre for Basic Sciences.
- **TARGET AUDIENCE/ PARTICIPANTS:**
 - Students of Semester-VI, IV and II.
- **ATTENDANCE SHEET:**



➤ BRIEF REPORT ABOUT THE EVENT/ PROGRAMME:

The Department of Physics, Asutosh College, organized a stimulating Alumni Talk on May 14, 2025, as part of its ongoing initiative to build strong connections between current students and accomplished alumni. These sessions aim to provide academic enrichment, career insights, and inspiration for students through direct interaction with those who have walked the same path and ventured into diverse fields of research and professional excellence.

The event featured **Ms. Ananya Chakraborty**, an alumna of the department and currently a PhD scholar at the Department of Physics of Complex Systems, **S.N. Bose National Centre for Basic Sciences**. Known for her academic excellence and dedication to theoretical physics, Ms. Chakraborty brought a unique blend of scholarly depth and accessible communication to the session.

The talk, titled **“Spooky Truths: Bell Inequalities and the Quantum Nature of Reality,”** focused on one of the most intriguing and foundational aspects of quantum physics. Ms. Chakraborty introduced the

audience to **Bell's inequalities**, a critical concept that tests the limits of classical intuitions about the universe and challenges conventional notions of **locality** and **causality**.

Through clear explanations and relatable analogies, she demystified complex ideas surrounding **quantum entanglement**, **non-local correlations**, **EPR Paradox** and the philosophical implications of **quantum measurement**. Her presentation balanced theoretical depth with accessibility, making it engaging for both students with a budding interest in quantum mechanics and those considering research careers.

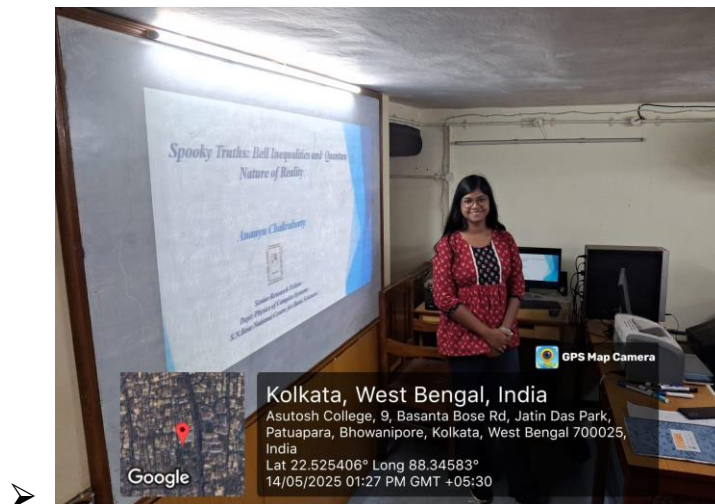
She also shared her personal academic journey, highlighting the challenges and milestones that shaped her transition from undergraduate studies at Asutosh College to cutting-edge research at a premier national institution. This personal narrative resonated deeply with students, offering both motivation and practical insight into the rigors and rewards of pursuing higher studies in physics.

The session concluded with an interactive Q&A segment, where students posed thoughtful questions, leading to stimulating discussions on the future of quantum research, interdisciplinary opportunities, and the importance of critical thinking in scientific inquiry.

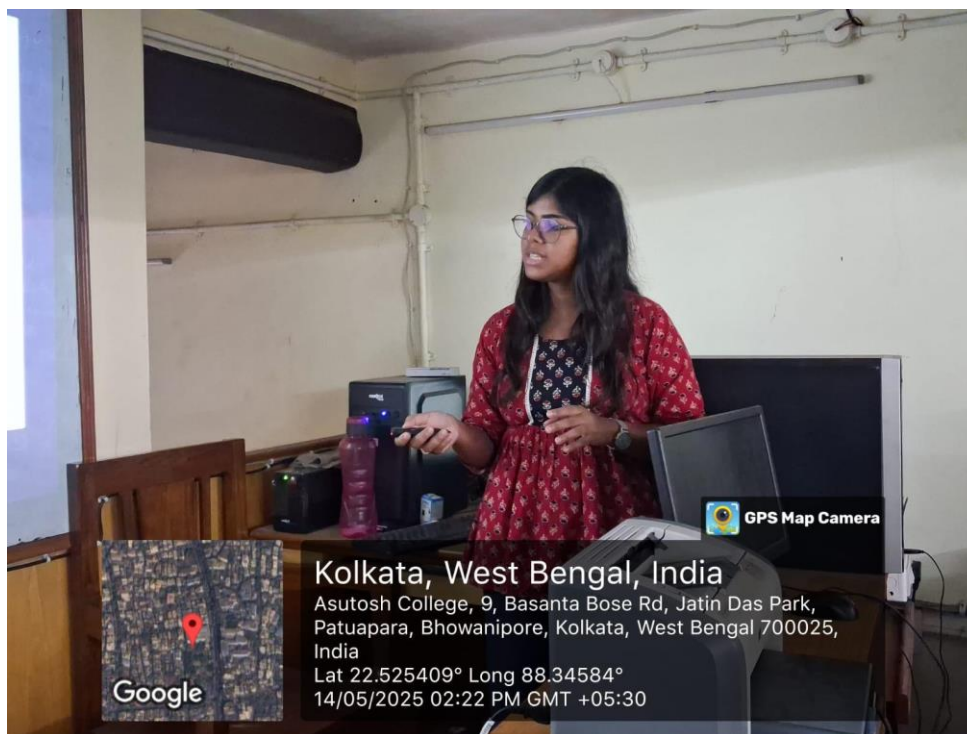
Overall, the Alumni Talk proved to be an intellectually enriching experience, leaving students with a deeper understanding of quantum mechanics and a renewed sense of curiosity. The Department of Physics remains committed to organizing such events that not only enhance academic learning but also strengthen the sense of community among past and present members of the college.

Special acknowledgement is due to Dr. Amit Kumar Bhattacharjee, Head of the Department of Physics, and Dr. Rina Kar Dutta, Teachers' Council Secretary for their leadership and commitment in organising this event. Their dedication continues to inspire and uphold the department's tradition of academic excellence and community engagement. The gracious presence of our former faculty members, Dr. Bikash Pal and Dr. Manorama Chatterjee, whose longstanding connection with the college continues to inspire both students and alumni. Their participation not only enriched the discussion but also reminded us of the invaluable role faculty plays in shaping the future of our community.

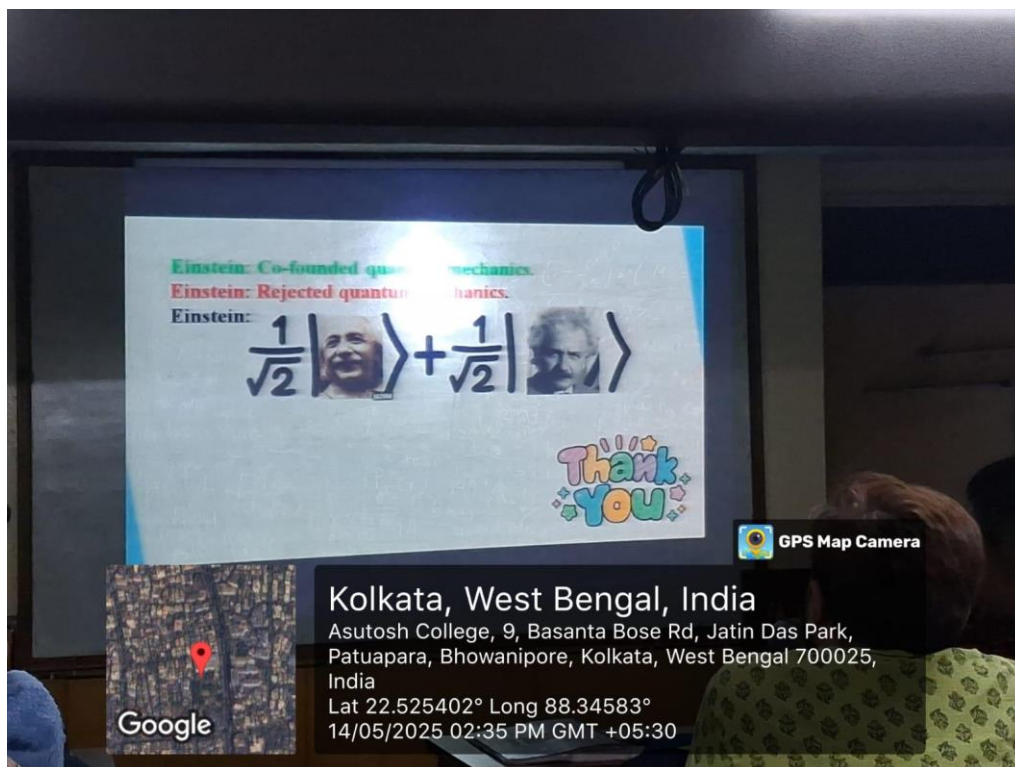
Pictures:



Speaker (Alumni) is in front of her presentation



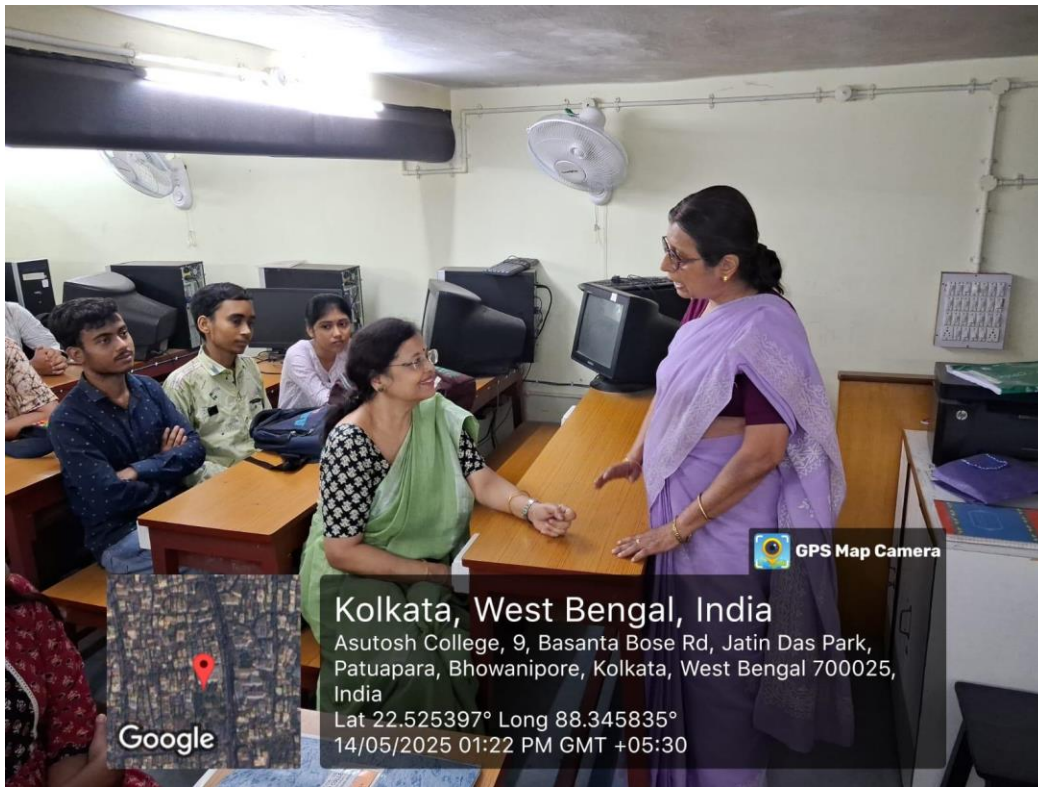
Ananya Chakraborty (Alumni) is delivering her lecture



A slide from the presentation



Audience



Teacher Council Secretary Dr. Rina Kar Dutta is in conversation with our beloved madam Dr. Manorama Chakraborty.

