

**Institution's Innovation Council.**  
**Dr. B C Roy Engineering College, Durgapur.**

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- I. Title of the Event:** Exhibition on Plasma: The 4th State of Matter.
- II. Program Theme:** Innovation & Design Thinking
- III. Date & Time:** 12th to 14th November, 2024. 10:00AM-05:00PM
- IV. Event Coordinators:** Dr. Saurav Ranjan Das
- V. Number of Student Participants:** 70
- VI. Number of Faculty Participants:** 20
- VII. Number of External Participants, if any:** 120
- VIII. Expenditure Amount, If any:** 12000/-
- IX. Mode of Session delivery:** Offline
- X. Speaker details, If any (50-100 words):** The keynote speaker for the event was Shri Chetan Jariwala, Head of the Outreach Event and Scientific Officer G at the Institute for Plasma Research. He provided an insightful session on the significance of plasma in modern science and technology. Other notable dignitaries included Dr. Saikat Maitra, Chief Advisor, Dr. B. C. Roy College Group, and Dr. Pareshnath Chatterjee, Head of the Department of Chemistry, NIT Durgapur.
- XI. Objective of the event (100-150 words):** The primary objective of this exhibition was to educate students and faculty members about plasma, the often-overlooked fourth state of matter. The event aimed to foster curiosity and innovation in the field of plasma physics and its applications, including fusion energy, space research, and industrial applications. Additionally, the exhibition sought to inspire students towards scientific research and careers in plasma physics by providing hands-on experiences through exhibits from the Institute for Plasma Research. The event also facilitated knowledge sharing between academia and research institutions, fostering collaboration and intellectual growth.
- XII. Benefit in terms of learning/ Skill/ Knowledge obtained (150-200 words):** The exhibition provided participants with a comprehensive understanding of plasma and its real-world applications. The hands-on exhibits and interactive sessions helped students visualize how plasma exists beyond just theoretical concepts.

Through career counseling sessions, students gained insights into higher education and research opportunities in plasma physics. The presence of distinguished scientists and academicians encouraged young minds to explore innovative ideas related to plasma-based technology, such as its role in nuclear fusion, medical applications, and space research.

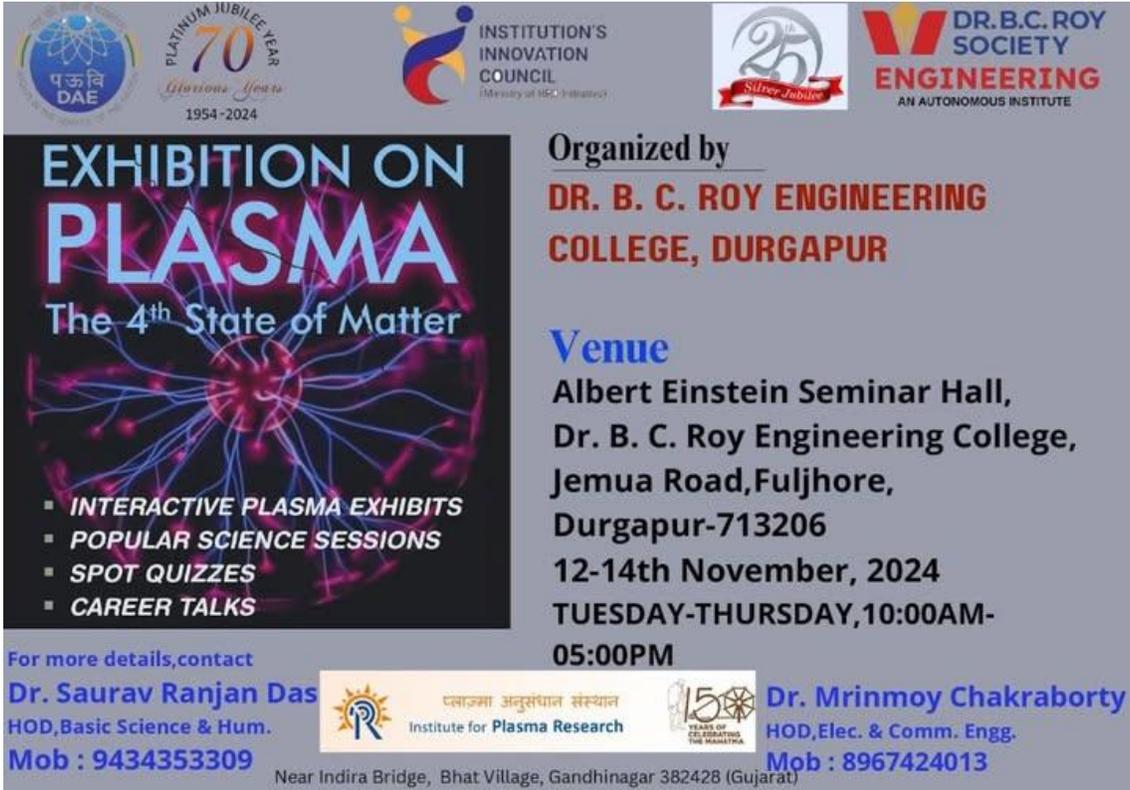
The exhibition also enhanced critical thinking and problem-solving skills by engaging participants in quizzes and discussions related to plasma science. Additionally, networking opportunities with experts from research institutions, schools, and colleges broadened participants' perspectives, inspiring interdisciplinary collaborations.

**XIII. Feedback received from the guest/ participants:** Yes

**XIV. Remarks, if any (50-100 words):** The event received overwhelming appreciation from students, faculty, and external participants. The engaging exhibits and expert sessions provided valuable exposure to cutting-edge research in plasma physics. Many students expressed interest in pursuing higher studies and research in the field of plasma science.

The exhibition's success was a result of collaborative efforts between BCREC and the Institute for Plasma Research, and such initiatives should be continued in the future to promote scientific curiosity and innovation.

**XV. Poster or Banner of the event:**



The banner for the 'EXHIBITION ON PLASMA: The 4<sup>th</sup> State of Matter' features a central graphic of a glowing plasma structure. At the top, it includes logos for DAE (70th Anniversary 1954-2024), Institution's Innovation Council, and Dr. B.C. Roy Society Engineering College. The text on the banner provides details about the event's activities and contact information for the organizers.

**Organized by**  
**DR. B. C. ROY ENGINEERING COLLEGE, DURGAPUR**

**Venue**  
Albert Einstein Seminar Hall,  
Dr. B. C. Roy Engineering College,  
Jemua Road, Fuljhore,  
Durgapur-713206  
12-14th November, 2024  
TUESDAY-THURSDAY, 10:00AM-05:00PM

For more details, contact  
**Dr. Saurav Ranjan Das**  
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HOD, Elec. & Comm. Engg.  
Mob : 8967424013

Near Indira Bridge, Bhat Village, Gandhinagar 382428 (Gujarat)

**XVI. Photographs (5 (max) for offline or screenshots for online):**



**बीसी रॉय इंजीनियरिंग कॉलेज में प्लाज्मा प्रदर्शनी**

धनबाद। डॉ बीसी रॉय इंजीनियरिंग कॉलेज दुर्गापुर में प्लाज्मा प्रदर्शनी का आयोजन हुआ। राष्ट्रीय शिक्षा दिवस के अवसर पर आयोजित कार्यक्रम में पौधरोपण हुआ। प्रमुख वक्ता चेतन जरीवाला, वैज्ञानिक अधिकारी जी ने प्लाज्मा के वैज्ञानिक महत्व और इसके विविध उपयोगों पर प्रकाश डाला। डॉ एस मैत्रा, डॉ परेशनाथ चटर्जी, डॉ सौरव रंजन दास, डॉ सुनीता डे समेत अन्य मौजूद थे।