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**NAAC ACCREDITED 'A++' GRADE COLLEGE**

## Department of Physics and Electronics, Hansraj College

# Event Report

**Event name :** Invited Lecture on Plasma Science and Technology: An Introduction
**Date of the event :** Feb 17th, 2024
**Time :** 11.00 am
**Convenors :** Dr. Yogesh Kumar, Ms. Chanchal Yadav
**Co-Convenors :** Dr. Davuluri Srikala, Dr. Rangoli Bhatnagar
**Programme Coordinators :** Dr. Nishant Shankhwar, Dr. Ganesh Lal
**Programme Mode :** Online
**Zoom Platform Link :** https://us06web.zoom.us/j/88167277882

Recently, Professor D. N. Gupta from the Department of Physics and Astrophysics delivered an enlightening talk titled "Plasma Science and Technology: An Introduction." He started with the fundamentals of Plasma and stated that Plasma, characterized by the presence of a significant portion of charged particles such as ions or electrons, is one of the four fundamental states of matter, alongside solid, liquid, and gas. It exhibits unique properties, serving as a good conductor of electricity and being susceptible to magnetic fields. This captivating topic not only intrigues scientists but also engages young research fellows and students alike. The lecture, attended by teachers and UG students from Hansraj College and various other institutions, proved to be highly informative. During the lecture, Prof. Gupta provided a clear comparison between plasma and gas, focusing on their conductivity, species, distribution, and interaction. He delved into various properties of both hot and cold plasma, offering detailed insights. Moreover, he shed light on the diverse applications of plasma, such as plasma globes, and its relevance in medical and communication technologies. However, Prof. Gupta also highlighted some of the disadvantages associated with plasma. The session was interactive, with participants actively engaged throughout the lecture. Prof. Gupta patiently addressed queries from the audience towards the end of the session, fostering a fruitful exchange of ideas. The event concluded with a heartfelt vote of thanks extended to Prof. D. N. Gupta, the organizers, and all the participants for their active participation and contribution to the session.

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**POSTER:** Total Number of Participants : 55