

हंसराज कॉलेज

दिल्ली विश्वविद्यालय

महात्मा हंसराज मार्ग,

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HANS RAJ COLLEGE

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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

Department of Physics and Electronics
Hansraj College University of Delhi
Invited Lecture
on
Plasma Science and Technology: An Introduction
Prof. D. N. Gupta
Department of Physics & Astrophysics, DU
Saturday || 17 Feb 2024 || 11:00 AM
Zoom Link: <https://us06web.zoom.us/j/88167227882>

Convener(s)
Dr. Yogesh Kumar, HRC, DU
Ms. Chanchal Yadav, HRC, DU

Co-Convener(s)
Dr. Dandvati Srikala, HRC, DU
Dr. Rangoli Bhatnagar, HRC, DU

Principal
Dr. (Dr.) Rama HRC, DU

Coordinators(s)
Dr. Nishant Shankhwar, HRC, DU
Dr. Ganesh Lal, HRC, DU

IQAC Director
Dr. Alka Kacker HRC, DU

Vice-Principal
Dr. Vijay Ravi Rajpat HRC, DU

Cool
Where Can I Find Cold Plasma?

- Fluorescent Lights
- Strobe Lights
- Experimental Fusion Research Devices

Cold Plasma

- Isn't really cold
 - Typical electron temperatures for cold plasmas are in the thousands of degrees
- Only a small fraction of the gas molecules are ionized (degree of ionization)
 - Usually on the order of 1%
- Often created using strong electric fields

Participants (54)

Panelists (7)

- YK Yogesh Kumar (Co-host, Me)
- CY Chanchal Yadav (I-host)
- DN Gupta (Co-host)
- SD Srikala Dandvati (Co-host)
- DR Dr. Rangoli Bhatnagar
- N Nishant Shankhwar
- DG Dr. GANESH LAL

Attendees (47)

Webinar Chat

Instabilities and turbulence for fusion reactors and other plasma-based technologies?

SRADITHUJOSEPH to Everyone

Bj sir will the candle flame be affected by electric and magnetic fields?

Pocnam Jain to Everyone

PJ Thank you sir 🙏

Nikean Jakhra to Everyone

NJ what is the condition of particle acceleration when laser interact with foil??

Who can see your messages? Recording On

to: Everyone

Please