



**IPR OUTREACH PROGRAMME
ON PLASMA, ITS APPLICATIONS AND NUCLEAR FUSION
(An initiative under Azadi Ka Amrit Mahostav)**

**Plasma ज्ञान-2022
22-26 August, 2022**



Jointly Organized by
Department of Physics
Birla Institute of Technology Mesra, Ranchi
Off-Campus Jaipur, Rajasthan
&
Institute for Plasma Research, Gandhinagar, Gujarat



Introduction of the Programme:

Birla Institute of Technology, Mesra, Off-Campus Jaipur is privileged to host the IPR outreach programme on Plasma, Its Applications and Nuclear Fusion for Jaipur (Rajasthan) region. The IPR outreach programme is an initiative from Institute for Plasma Research, Gandhinagar under “Azadi ka Amrit Mahotsav” to spread the awareness and knowledge about Plasma Science & Technology and its applications to various parts of India among school/college students, scholars, teachers etc. A team of expert scientists from IPR, Gandhinagar will be available to conduct multiple training sessions of 2/4 hours duration that combine lectures and hands-on table top experiments / exhibition on Plasma Science & Technology. The details about the event can be found at the link (<https://www.ipr.res.in/outreach/>).

About PLASMA:

Plasma is an ionised gas, popularly known as fourth state of matter. Plasmas are naturally occurring as well as produced in laboratories as non-thermal (cold or glow discharge) and thermal (hot or arc discharge) plasma. It is a versatile medium and is a rich source of energetic electrons, ions, neutral particles, radicals, reactive chemical species, UV radiation, electro-magnetic fields etc. Plasmas are proposed for various societal and industrial applications such as Plasma display, Plasma medicine, Air/ water purification and material processing etc.

About IPR, Gandhinagar:

Institute for Plasma Research (IPR) Gandhinagar is an autonomous R & D organization under the authority of Department of Atomic Energy (DAE), Government of India situated near west banks of river Sabarmati in Gujarat, India. This institute is largely involved in theoretical and experimental studies in Plasma Science including basic Plasma Physics, magnetically confined hot Plasmas and Plasma technologies for industrial application. The institute owns two operational tokamaks (a machine for controlling thermonuclear fusion) - ADITYA and Steady State Tokamak (SST) - 1FCIPT, ITER-India and CPP-IPR, located in Gandhinagar and Guwahati are three divisions under IPR Gandhinagar.

About BIT Mesra, Ranchi, Off-campus Jaipur:

Birla Institute of Technology (BIT) Mesra, Ranchi (deemed to be university) was founded by the philanthropist & Industrialist Late Sri B. M. Birla in 1955 as a premier Institution of technical education and research. Birla Institute of Technology, Off-Campus Jaipur is an integral part of BIT Mesra, Ranchi, that was established in 1995. The focus of the institute is to provide quality education in Engineering, Applied Sciences and Management with technology and professional exposure through innovative programmes & practices. With excellent performance, progressive mindset and goodwill earned, it is today one of the leading institutes in the country. One of the premier research organization of our group is Birla Institute of Scientific research (BISR), Jaipur.

Resource Persons from IPR, Gandhinagar:



Dr. A.V. Ravi Kumar
Scientific Officer-H
& Head



Ms. Chhaya K. Chavda
Scientific Officer-H



Mr. K. K. Mohandas
Scientific Officer-F



Ms. Harsha Machchhar
Scientific Officer-F



Mr. Gattu Ramesh Babu
Scientific Officer-F



Mr. Chetan Jariwala
Scientific officer -F



Mr. Narendra Chauhan
Scientific Officer-E

Patron

Prof. Indranil Manna

Vice Chancellor, BIT Mesra, Ranchi

Chairman

Dr. Peeyush Tewari

Director, BIT Off-Campus Jaipur

Convener

Dr. Anand Kr. Srivastava

Deptt. of Physics, BIT Off-Campus Jaipur

Coordinators

Dr. Dheeraj Bhardwaj
Dr. Ravindra Kumar

Deptt. of Physics, BIT Off-Campus Jaipur
Deptt. of Physics, BIT Off-Campus Jaipur

Advisory Committee

DRIE, DoFA, DoSA, All others Deans, All HODs of BIT Mesra, Ranchi and All In-charges of BIT Off-Campus Jaipur.

Organizing Committee Members

Dr. Abinash Pankaj

BIT Off-Campus Jaipur

Dr. Alok Pandey

BIT Off-Campus Jaipur

Mr. Sanjay Tambi

BIT Off-Campus Jaipur

Mr. Gautam Goswami

BIT Off-Campus Jaipur

Mr. Sanjay Kumar Shukla

BIT Off-Campus Jaipur

Dr. P. S. Solanki

BIT Off-Campus Jaipur

Dr. Deepak Verma

BIT Off-Campus Jaipur

Programme Details:

1. 22-25 August 2022, Two hours programme
(One popular lecture and hands-on exhibition)
Morning Session : For School students
Afternoon Session: For UG/PG students & Research Scholars
2. 26 August 2022: Four hours programme : Only for Science teachers
(Four specific lectures and hands-on exhibition)
3. One hour display of Scientific movies and Animation exhibition for all participants.

Who can attend :

Science students of class IX to XII, UG/PG students, research scholars and Science teachers.

Plasma Exhibition will be open for all the visitors.

Event Registration :

- For IX-XII class students - through schools only.
- For UG/PG students, Research Scholars & Teachers - through Google form at the following link,
<https://forms.gle/h9QA4QyvVf3QfdJS9>
- There is no Registration fee.
- Resource material and E-certificate would be provided.
- Slots for School/ College participation would be finalized by BIT Jaipur.

Last date for registration : 10th August 2022

For further information, contact us:

Dr. Anand Kumar Srivastava
Convener, Plasma Gyaan-2022

Department of Physics

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BIT Jaipur Weblink



BIT Jaipur location



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