



SERB Sponsored Workshop on
**Plasma Technology and Related Instrumentation for
Monitoring and Control**
Dates: May 17 - 18, 2022.

CSIR-Institute of Minerals and Materials Technology (IMMT), Bhubaneswar is organising an SERB sponsored two days' workshop on "Plasma Technology and Related Instrumentation for Monitoring and Control" for faculties of colleges and Universities. The workshop will have both lectures by eminent Scientists and Professors and also demonstration at CSIR-IMMT.

Participation Eligibility: Faculty members of Engineering Colleges, Science Colleges and Universities

Venue: CSIR-IMMT, Bhubaneswar

Mode: Physical and Online

(The talks will also be available for online participants)

Fees: Free

Physical Participation: Limited to 30 (extendable based on case to case basis)

Selection: First-cum-first serve basis

Pre-Registration: Last Date: 15/5/2022,

Through google form: <https://forms.gle/5nEr2qYMVNT8mW6A8>

Workshop Content:

1. Different types of Plasma Technologies
2. Thermal Plasma (Transferred Arc and Non-transferred arc)
3. Dielectric Barrier Discharge Plasma
4. Plasma Spectroscopy
5. Plasma for material synthesis
6. Tokamak Plasma
7. Monitoring and Control Technology including Machine Learning
8. Sophisticated Instruments

Lab Visit: Demonstration and training on operation of different types of plasma systems at CSIR-IMMT and other sophisticated equipment.

Speakers: IIT, BARC, IPR, CSIR-CEERI, CSIR-IMMT



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Workshop Programme

Day 1 (17 May 2022)

9:30	Registration
10:00-12:00	Inauguration and Keynote speech Dr. A. K. Das , Chief Guest Former Head, Laser and Plasma Technology Division, BARC, Mumbai
12:00-13:00	Invited talk Prof. Bidyadhar Subudhi , Professor, IIT Goa Fault detection for plasma position control in Tokamak using machine learning techniques
13:00-14:30	Lunch
14:30-15:30	Invited talk Dr. Srikumar Ghorui (SO/H) Head, Thermal Plasma Technologies Section, L&PTD, BARC, Mumbai
14:00– 17:00	Lab Visit for Physical Participants / Video demo for online participants

Day 2 (18 May 2022)

9:30 -10:15	Invited talk Dr. Debi Prasad Das , Senior Principal Scientist, CSIR-IMMT
10:45-11:45	Invited talk Dr. Joydeep Ghosh , IPR, Gandhinagar
12:00-13:00	Invited talk Dr. S.K. Singh , Ex-Chief Scientist, CSIR-IMMT
13:00-14:00	Lunch
14:00-15:00	Invited talk Dr. Udit Naryan Pal , Senior Principal Scientist, CSIR-CEERI
15:10 – 16:30	Lab Visit for Physical Participants / Video demo for online participants
16:30– 17:30	Panel Discussion and Valedictory Session

Contact Address: **Dr. Debi Prasad Das**
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