

Online Workshop
“Functional Materials and Simulation Techniques”
(FMST – 2024)

21-25 October 2024

Organized by
Department of Applied Sciences,
Indian Institute of Information Technology Allahabad,
Prayagraj-211015, Uttar Pradesh, India



About the Workshop

The Scheme “**Functional Materials and Simulation Techniques-2024**” is intended to build human resources and knowledge capacity through open-access Science and Technology Infrastructure across the country. The “FMST – 2024” seeks to acquaint participants with diverse functional materials, including polymers, nanocomposites, electroceramics, 2D materials, metamaterials, and photonic crystals, utilized in various technological domains such as the electronics industry, sensors, renewable energy, and defense applications. This workshop offers opportunities for postgraduate and doctoral students, postdoctoral fellows, and faculty members engaged in these fields to deepen their understanding of functional materials. It includes practical sessions on various computational and theoretical aspects, equipping participants to analyze data effectively to characterize functional materials.

Topics to be Covered

Lecture-sessions

- Functional materials
- Electro ceramics
- 2D materials
- Photonics & Meta – Materials
- Polymers and nanocomposites

Hands-On-sessions

- Density Functional Theory using Quantum espresso & Wien2K functional materials.
- Raman Ultrafast imaging.
- COMSOL for designing metamaterial & photonic crystals.
- Machine learning uses in material science.

Registration information

Application Deadline:
18 October 2024

- ❖ Interested candidates need to register via the given link.
- ❖ Only 100 participants are allowed to attend the training program.
- ❖ Selected candidates will be informed via registered email.
- ❖ The registration fee for the workshop is as follows:
UG/PG/PhD – Rs. 500/-,
Faculty/Postdocs – Rs. 1000/-
Foreign participant – USD 10.
- ❖ After payment, kindly send the receipt to the email id fmst2024@iiita.ac.in for the registration confirmation.
- ❖ After successfully registering and paying, you will get a confirmation mail including a schedule of the events and a meeting information link.

Who can Apply

Faculty Members
Ph.D./Post-Doc fellows

UG-PG students

motivated to work in functional materials, computational, and theoretical materials science.

and Other

Organizing Committee

Patron

Prof. Mukul Sharad Sutaone
(Director, IIIT A)

Chief Patron

Prof. Satish K. Singh
(Registrar IIIT A)

Prof. Manish Goswami
(Dean R&D, IIIT A)

Chairperson

Dr. Pramod Kumar
(HoD AS, IIIT A)

Coordinators

Dr. Akhilesh Tiwari
Dr. Pramod Kumar
Dr. Srijit Bhattacharjee
Dr. Upendra Kumar
(Department of Applied Sciences, IIIT A)

Contact in case if you have any query

Dr. Upendra Kumar

Email:

fmst2024@iiita.ac.in

Registration Link

<https://apply.iiita.ac.in/event/register/fmst/>

For more information, visit our website –

fmst2024.iiita.ac.in