

JOIN US FOR AN EXCITING REFRESHER COURSE ON

October 18 - October 29, 2024

ADVANCED CONCEPTS IN BIOPHYSICS AND SOFT MATTER FOUNDATIONS AND FRONTIERS

Organized by: Indian Institute of Technology (ISM) Dhanbad

ABOUT THE COURSE

Dive into the intersection of physics, biology, and material science in this advanced refresher course. Explore the foundational and cutting-edge concepts in biophysics and soft matter, with a focus on their application in material science and biomedical engineering. Gain hands-on experience with essential simulation and analytical techniques such as molecular dynamics, Monte Carlo simulations, finite element analysis, and computational fluid dynamics. Participants will also learn to use advanced experimental tools, including X-ray and neutron scattering, to study the structure and self-assembly of biological macromolecules.

Molecular Assembly

Self-Reproduction

Gene

Minimal Cell

ELIGIBILITY CRITERIA

- ✓ Faculty members from universities and colleges under Section 2(f) of the UGC Act.
- ✓ Teachers from colleges affiliated to a university for at least three years but not yet under Section 2(f) may also apply.
- ✓ Participation in the Faculty Induction Programme (FIP) is a prerequisite for admission.
- ✓ A one-year gap after FIP is required to opt for the refresher course.

RESOURCE PERSONS

- Prof. Ambarish Kunwar, IIT Bombay
- Prof. Debaprasad Giri, IIT (BHU)
- Prof. Navin Singh, BITS Pilani
- Prof. Avanish Singh Parmar, IIT (BHU)
- Prof. Mrinmay K. Mukhopadhyay, SINP
- Prof. Sunita Srivastava, IIT Bombay
- Prof. Sajal K. Ghosh, SNU Greater Noida

SALIENT FEATURES

- ✓ Mode of Course: Residential (Offline)
- ✓ Free Registration.
- ✓ Tea/snacks and a working lunch will be provided.
- ✓ Accommodation is available on a payment basis at the institute guesthouse/hostels for a limited number of participants based on availability. No TA/DA provided.
- ✓ Certificate: Awarded upon successful completion.
- ✓ Duration: October 18-29, 2024 (two weeks; 12 working days)

APPLICATION PROCEDURE

- Register at <https://mmc.ugc.ac.in> and create an account.
- Log in and apply for the "Guru Dakshta (FIP) Refresher course."
- Select "Indian Institute of Technology (Indian School of Mines) Dhanbad" as the program center and complete the application.
- **Application Deadline: October 12, 2024**



Venue: IIT (ISM) Dhanbad.

Organizers

Course Coordinator
Dr. Pankaj Mishra
Email: pankaj@iitism.ac.in
Mobile: +91 9470194401

Course Co-coordinator
Dr. Rajendra Prasad Giri
Email: rpgiri@iitism.ac.in
Mobile: +91 98367 75385

For more details, visit www.iitism.ac.in or contact our coordinators.