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PRESS-RELEASE

Expert faculty members from across the country explore advanced concepts in Biophysics and Soft Matter as part of the two weeks refresher course, which kicks off at IIT (ISM) today.

More than 50 expert faculty members of different technical and academic institutions from across the country congregated here at IIT (ISM) Dhanbad to participate in a two-week refresher course on advanced concepts in biophysics and soft matter; foundations and frontiers explored different aspects, including the basic principles of soft matter.

The occasion was the inaugural day of the refresher course scheduled from October 18 to October 29 at the i2h building of the institute, during which experts like Prof. Yashwant Singh, former Professor and Head at the Department of Physics of Banaras Hindu University, and Prof. Ambarish Kumar of IIT Bombay delved deep into divergent aspects of the concept.

Prof. Singh, a renowned theoretical physicist who has made immense contributions to soft matter physics during the two different expert sessions of the inaugural day, talked about the Basic Principles of Soft Matter and Biophysics.

Prof. Ambarish Kumar, during the two different sessions, dealt with two different topics, including one on forces on the microscopic scale in biology and the effect of the surrounding medium on the functioning of the biological system at the microscopic scale.

“The course being conducted under the Malviya Mission Teacher’s Training Programme at the Malviya Mission Teacher Training Centre of IIT (ISM) is aimed at enhancing and updating the knowledge and understanding of the faculty members about the latest research and foundational concepts of soft matter physics, which they can bring back in their classrooms and laboratories,” said Prof. Pankaj Mishra of the Department of Physics of IIT (ISM), who is also the coordinator of the program.

“The course features in depth lectures by leading experts from prestigious institutions, such as IISc Bangalore, IITs, BHU, etc., and topics covered include molecular dynamics simulations of macromolecular crystals, protein folding, DNA dynamics, etc.” further said Prof. Mishra, adding that these lectures will explore the biological mechanism at the microscopic level, offering insights into the interaction between biological systems and their environment.

“The goal of the course is to connect classical concepts with frontiers of contemporary research,” elaborated Prof. Mishra, adding that the program, with its comprehensive curriculum, aims to enhance the knowledge of the participants, foster research collaboration, and empower educators with the latest advancements in the fields of biophysics and soft matter.

Prof. Mrinalini Pandey, Coordinator, Faculty Development Centre, who was also present during the occasion, gave details of various training programs being conducted at the Faculty Development Centre of IIT (ISM), including the Faculty Induction Program, Refresher Program, Online Refresher Program, NEP Orientation and Sensitization Program, etc.

Prof. Bobby Antony, Head, Department of Physics of IIT (ISM), expressed confidence that the course will help to enhance the knowledge and skill of the participants.

Rajni Singh

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