

The NECBH is organising workshop on 'Modern Instruments in Biological Sciences (WMIBS)' from 28-29 February, 2020



North East Centre for Biological Sciences and Healthcare Engineering

The Indian Institute of Technology (IIT), Guwahati will be coordinating with Manipur University in organizing the WMIBS workshop at Department of Chemistry, Manipur University, Canchipur, Imphal from 28 to 29 February, 2020 to provide exposure to the researcher on the techniques and analysis of samples.

An advanced research facility called North East Centre for Biological Sciences and Healthcare Engineering (NECBH) was established at IIT, Guwahati to boost research in biological sciences and health engineering in North East Region. This endeavor envisages the creation of several state-of-the-art research facilities at IIT Guwahati to modernize the research infrastructure in this region for its use by the entire NER workforce.

Under this program, Department of Biotechnology, Government of India is also funding small and medium budget research projects for the scientists/faculties across North-East in collaboration with the faculty of IIT, Guwahati.

Under this initiative, handholding is done for researchers with their first time grant. Apart from getting scientific mentorship, they are also trained in grant writing and general administrative rules so that in the near future they can become independent PIs can successfully compete for extra-mural funding. Overall the main aim of the programme is to elevate the research ecosystem in the North-East.

The incorporation of the most advanced instruments for the research in various fields of biological sciences such as cell and molecular biology, biotechnology etc. took the subject to the next level. It also increased the need for scientist to learn more techniques. Therefore, the workshop will provide a platform for scientists to learn as well as deliberate few instrumentation techniques used in used in modern-day research in biological sciences.

The workshop aims to cover training and discussion on techniques and analysis of results obtained using modern scientific instruments. The major areas covered in workshop are (1) Optical Spectroscopy (2) Emission Spectroscopy (3) Crystallography (4) Surface Plasmon Resonance (5) Electrochemical Workstation (6) Energy Dispersive Spectroscopy (7) Magnetic Resonance Imaging (8) Magnetic Resonance Spectroscopy (9) Dynamic Light Scattering (10) Techniques in Proteomics Analysis (11) Mössbauer Spectroscopy (12) Chromatography (13) Flow Cytometry (14) Theoretical Aspects of Protein Folding.

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