



# Hands-on 'Workshop On UPLC, HRMS AND LCMS/MS'

**INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, INDIA**

**Venue: CRF Seminar room. Date: 4<sup>th</sup> -5<sup>th</sup> December, 2025**

**Maximum 60 participants First-come-first-serve (up to 27th November, 4pm, 2025)**

**Registration Fee: Faculty and staffs Rs. 1500/-..... Research Scholars & PG Students Rs. 1000/-**

**Who can participate? Faculties/PG Students/Research Scholars from Start-ups/ Pharmaceutical Companies/ Academic Institutes.**

## **About the Workshop:**

**UPLC:** Basic Principles and Essential Concepts, Instrumentation and Method Development, validation, Applications. Hands-on Demonstration, Update On Latest Techniques/ Developments. Troubleshooting Common Problems.

**HRMS AND LCMS/MS:** MS operation, quadrupole mass filter, MS calibration and optimization, Ion production, fragmentation, and detection, Operation in MS, MS/MS, SIM, MRM, Quantitative analysis, Sample preparation, Method development and validation.

**Joint Convener: Prof. N. D. Pradeep Singh (PIC-LCMS/MS Lab, CRF), and Ganesh Venkataraman (Co-PIC), Professor, Dept. of Chemistry, IIT Kharagpur, WB, India.**

**Co- Convener: Prof. Samik Nanda (PIC HRMS lab, CRF), Professor, Dept. of Chemistry, IIT Kharagpur, WB, India.**



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**Registration & Payment link: <https://erp.iitkgp.ac.in/CEP/courses.htm>**