

**Hands on Training Program on**  
**Sample Preparation & Gas Chromatography – Mass Spectrometry**  
**25<sup>th</sup> - 27<sup>th</sup> April 2023**



### About the Program

The “Sample Preparation & Gas Chromatography – Mass Spectrometry” would be held in, Central Instrumentation Laboratory, Central University of Punjab. This course covers all the practical and theoretical aspects about sample preparation using Biphasic extraction, Solid Phase Extraction (SPE) and their application to pesticide residue analysis using Gas Chromatography-MS/MS. The participants would be able to prepare the analysis pesticide and other trace organic chemicals in various matrices including water, food and soil. The training would also emphasize upon the quality control for both sample preparation and GC-MS Analysis and how to maintain & troubleshoot the equipment. The training program would be run with 40% theory and 60% practical in a lab environment.

### Learning outcomes

- ✦ Independently handle sample preparation for GC-MS/MS analysis
- ✦ Do's and don'ts of sample preparation and analysis.
- ✦ Familiarize with method and optimizing parameters of analysis of GC-MS/MS instrument.
- ✦ Troubleshooting GC-MS/MS for optimum chromatograph quality

**Who can apply for this course?**

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Those who have some basic knowledge of gas chromatography and would like to greatly enhance it, learning the essential and practical application of GC-MS techniques.

**Eligibility**

Master Degree, PhD, Postdoctoral Fellows and Industry Persons are encouraged to apply

**Seats**

20 seats

**Application Procedure**

Applications in the prescribed format along with necessary enclosures should be submitted through E-mail to [cil@cup.edu.in](mailto:cil@cup.edu.in) on or before 22 April 2023.

**Selection**

Candidates will be shortlisted on the basis of academic qualification; previous knowledge/experience of gas chromatography, extraction procedure and future plans. The selected candidates will be contacted by e-mail.

**Fees**

Registration fee of the course is Rs. 5000/- only (non-refundable). Working tea and lunch will be provided and is included in the registration fee. Lodging will be provided on twin sharing & chargeable basis if available at university guest house & hostels. The payment link will be provided to the shortlisted candidate through mail.

**Organizing Committee**

<b>Chief Patron</b> Prof. R. P. Tiwari Vice Chancellor, CUPB	<b>Patron</b> Prof. R. Wusirika Dean Inch. Academic	<b>Chairman</b> Prof. Raj Kumar Incharge, CIL	<b>Co-ordinator</b> Dr. J. Nagendra Babu Assist. Prof., Dept. of Chem.
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**Conveenres**

Dr. Rabindra Kumar, Technical Officer, CIL      Dr. Sumeer Razdan, Technical Officer, CIL

**Members**

Mr. Ajit Paul Singh Sen. Tech. Assist., CIL	Mr. Ashvani Kumar Sen. Tech. Assist., CIL	Mr. Sobhnath Yadav Tech. Support	Mr. Haldhar Kumar Tech. Support
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