

# L2L

## Lecture to Lab Series 2019



### X-Ray Diffraction

Powder and Single Crystal Analysis



### Analytical Spectroscopy

UV-Vis -NIR-Mid IR



### NMR Spectroscopy

NMR and Mass Analysis



### Electron Microscopy

Scanning and Transmission EMs



### Elemental Analysis

Ultimate and Heavy metals



### Thermal Analysis

TGA and DSC

**Sophisticated Analytical Instruments Facility (SAIF)**

**Sophisticated Test & Instrumentation Center (STIC)**

Cochin University of Science & Technology Campus, Kochi 682022

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# L2L Series 2019

## Course Outline

**L2L Series includes Theory Session and laboratory demonstrations of Following Analytical Methods**

- ✚ X-Ray Diffraction
- ✚ Electron Microscopy (Scanning and Transmission EMs)
- ✚ Spectroscopy (UV Vis NIR & Mid IR)
- ✚ Thermal Analysis (Thermo Gravimetry and Differential Scanning Calorimetry)
- ✚ Nuclear Magnetic Resonance and Mass Spectroscopy
- ✚ Elemental Analysis (Ultimate and Heavy Metal analysis)

### Program at a glance

- ✚ The program will be conducted for students from a single college at a time.
- ✚ Participants can choose from the list of modules, their topics of interest.
- ✚ A batch of students from a college should choose same modules.
- ✚ Date of the program can be fixed at mutual convenience.
- ✚ Only three modules can be conducted in a day.
- ✚ Minimum 20 numbers of students are required to conduct the course.

## Mode & Duration

### Short Theory Sessions

Time	9.30 -10.30 AM	11.45- 12.30	2.30-3.30 PM
Day I	Module I	Module II	Module III
Day II	Module IV	Module V	Module VI

## Laboratory Sessions

Time	10.30 -11.30 AM	1.30-2.30 PM	3.30 – 4.30 PM
Day I	Module I	Module II	Module III
Day II	Module IV	Module V	Module VI

### Registration: Terms & Conditions

This is not a training course. This program envisages to create an awareness among graduates/postgraduates and research students on use of sophisticated analytical instruments. Persons from industries, teachers under FIP/TIP and other schemes will not be entertained.

Hands own training is not feasible. But elaborate laboratory demonstration by expert technical persons will be made available.

Each analytical facilities covered under the programme is a massive subject hence detailing in every aspects may not be possible in a short span.

#### Programme fee

Rs. 500 per student per day GST extra @18% Number of students permitted per module- minimum 20 maximum 40

Students are permitted to carry lunch with them.

Please note that it is often difficult for us to find someone to fill your seat. You will not incur a refund but can find a substitute to take your place.

We have done our best to create a favorable environment for teaching and learning. There is plenty of time for questions and discussions during each course.



**SOPHISTICATED TEST AND INSTRUMENTATION CENTRE**

**Cochin University P.O, Kochi 682022**

(Autonomous institution of KSCSTE, Govt. of Kerala and CUSAT)

**Appl. No.**

**REGISTRATION FORM L2L SERIES**

1. Name in Block Letters:.....

2. Course of Study .....

3. Name of Institution .....

4. Institution Address:.....

8. Email Id: ..... Contact No.....

9: Date requested:

Signature: