

## CIF training programme

Now a days there is a tremendous growth in pharmaceutical, chemical, bio-chemical, health care, metallurgical, forensic and food etc. industries across the globe. Our CIF centers are equipped with the latest instruments and offers instruments application training. The instrumentation in quality control laboratories plays a vital role for fast processing and analysis of testing samples. There is an enhancement in quality and minimization of errors in samples testing through the use of instruments in laboratories. Thus, skilled personnel, who are trained for handling sophisticated instruments is another important aspect in the characterizations. There is a challenge before universities to fulfill the demand of skilled human resources as the education given in academic institutions may not be fully acquainted with needs of the today's growing industries. Hence, in order to cater the requirements of industries and laboratories there is utmost need to design a training programme which will provide practical knowledge and skills of handling instruments to the students. This is learning platform which enhance knowledge of applications and operation of instrument.

CIF has designed training programme on "Instrument Handling" especially for post – graduate students of science. This course will provide breakthrough knowledge of instrumentation, handling and applications of instruments.

Qualifications: Graduate, postgraduate or research students having Science.

Duration: Four weeks

Course fee: Rs 2500/-for Students of school of studies and Rs 5000/- for other Educational Institutions

Certificate will be awarded to successful students who will attend at least 80% lectures, practicals, and complete the assignments.

1. Liquid Chromatography - Mass Spectroscopy (LC-MS)
2. High Performance - Liquid Chromatography (HP-LC)
3. Differential Scanning Calorimeter (DSC)
4. Particle Size Analyzer (PSA)
5. X-Ray Powder Diffraction (Powder XRD)
6. Fourier Transform Infrared Spectroscopy (FT-IR)
7. Micro Balance
8. Spectrofluoro photometer (SFPM)
9. DNA Sequencer
10. iBolt Gel Transfer Device
11. Qubit Fluorometer
12. Transmission Electron Microscope (TEM)
13. Magnetic Susceptibility (MSB)
14. Thermal Gravity Analysis (TGA)
15. Flow Cytometry
16. Real Time – PCR
17. Ultraviolet - Visible spectroscopy (UV-spectroscopy)
18. Electro square porator

*L. Anwar*