

## **CENTRAL INSTRUMENT FACILITY**

Khalsa College Amritsar has created a Centralized Instrument Facility for carrying out research in basic and applied sciences. The Central Instrument Facility has been created keeping in view the constraint that individual researchers may not be able to generate huge research funds for the research instruments. The facility provides access to the sophisticated research instruments on a shared basis for promoting research with the following objectives.

1. To strengthen technological infrastructure to carry out advanced research in various science disciplines under one roof and make their services available to different departments.
2. To organize short-term courses/workshops on the use and application of various experimental techniques for students and teachers.

The following instruments are available for the researchers in CIF:

1. THIN FILM DEPOSITION BY EBG AND THERMAL EVAPORATION
2. ATOMIC EMISSION SPECTROPHOTOMETER
3. UV-VISIBLE SPECTROPHOTOMETER UV-1800
4. FTIR
5. FLUORESCENCE SPECTROPHOTOMETER
6. MICROWAVE SYNTHESIZER
7. SPECTROPHOTOMETER DOUBLE BEAM
8. SCHRÖDINGER WORK STATION
9. TWO PROBE HIGH RESISTIVITY MEASUREMENT
10. FOUR PROBE FOR VERY LOW TO HIGH RESISTIVITY MEASUREMENTS
11. ULTRASONIC NEBULISER FOR SPRAY DEPOSITION OF THIN FILMS
12. KEITHLEY SOURCE METER 2450
13. KEYSIGHT MM 6 DIGIT BENCH 34410
14. ELISA READER
15. PCR MACHINE
16. ELICO SPECTROPHOTOMETER
17. SEED GERMINATOR
18. LAMINAR AIR FLOW

19. ROTARY FLASK SHAKER
20. BURSTING STRENGTH TESTING MACHINE
21. VENTURIMETER AND ORIFICEMETER
22. CENTRIFUGE
23. REFRIGERATED CENTRIFUGE
24. SPSS SOFTWARE
25. GAUSSIAN 09
26. K GRAPH
27. ORIGIN

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