SDPC
Skill Development Program @ CeNS

CeNS

Schedule for "Thermal Analysis (TGA-DTA, DSC) & Circular Dichroism (CD)" course

Session	Day – 1	Day – 2	Day – 3
Morning	***Thermal analysis Theoretical*** Control and measurement of Temperature Thermo Gravimetric Analysis (TGA) Differential Thermal Analysis (DTA) Differential Scanning Calorimetry (DSC)	***DSC: Experimental*** Hands-on experience (a) Recording DSC profiles (thermograms/ traces) using the known sample(s). (b) Analysis of profiles (c) Method of data reporting	***Circular dichroism (CD): Theoretical*** (a) Introduction (b) Definition (c) Principles of CD (d) Optical system (Schematic diagram of the instrument) ***Experimental*** Hands-on experience (a) Principle of operation (b) Operational conditions (Do's and Don'ts) (c) Calibration (d) Sample preparation (e) Methods of the recording (g) CD spectrum (h) Analysis of CD profiles. (i) Method of data reporting
Afternoon	***Thermal analysis Experimental*** Introduction to the Instruments (DSC & TGA) (a) Overall picture (c) Operational procedures (Do's and Don'ts) (b) Calibration	***TGA: Experimental*** (a) Recording the TGA profiles using a known sample(s) (b) Analysis of TGA profiles	**Summary** **Evaluation**

Instructors:

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Detail about the instrument is provided on the following link:

http://crf.cens.res.in/facilities/GH-TGADTA/