

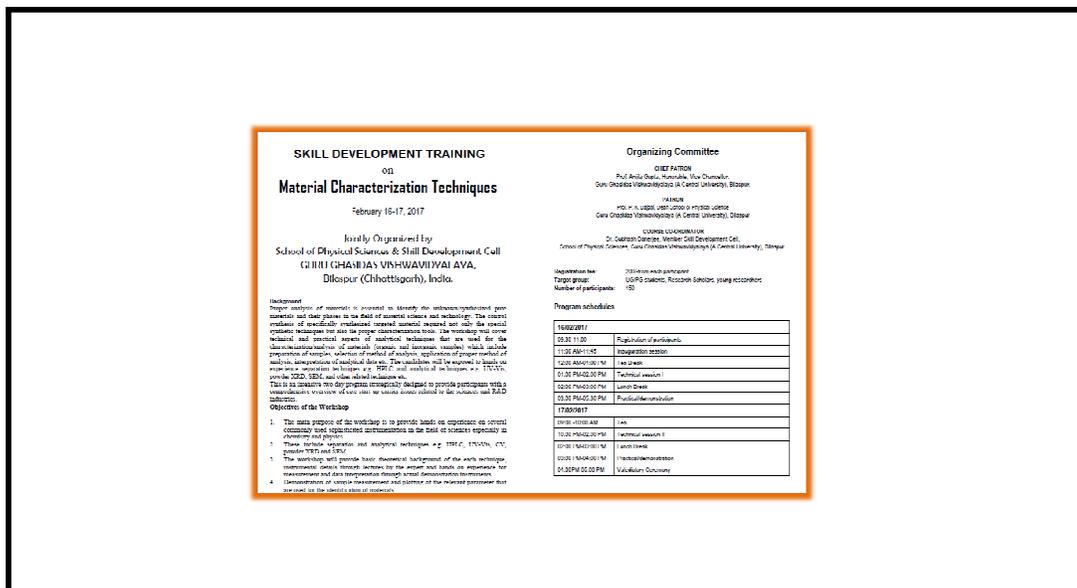


Report on Material Characterization Techniques

Coordinator: Dr. Subhash Banerjee

Date of Event : February 16-17, 2017

Venue : Dept of Pure & Applied Chemistry, GGV



Event Brochure

Details of Event Proceedings

Date (DD-MM-YYYY)	Details of the Session	Details of Resource Person	Number of Participants
16-02-2017	Overview of Characterization Techniques	Prof. P. K. Bajpai	201
16-02-2017	SEM: Basic instrumentation and its Applications	Dr. G. Reddy	201
16-02-2017	HPLC: Basic instrumentation and its Applications	Dr. K. V. S. Ranganath	201
16-02-2017	HPLC: Basic instrumentation and its Applications	Dr. K. V. S. Ranganath	201
17-02-2017	Measurement of dc electrical resistivity with temperature	Dr. A. K. Gupta	201



17-02-2017	Powder XRD: Basic instrumentation and its Applications	Dr. P. Das	201
17-02-2017	UV-Vis: Basic instrumentation and its Applications	Dr. K. K. Shrivastava	201
17-02-2017	Structural Information through Electronic UV-Vis Spectra of Transition Metal Complexes	Dr. S. S. Thakur	201
17-02-2017	CV: Basic instrumentation & Applications	Prof. G. K. Patra	201

A Brief Abstract of the Event (Maximum 500 Words):

Proper analysis of materials is essential to identify the unknown/synthesized pure materials and their phases in the field of material science and technology. The control synthesis of specifically synthesized targeted material required not only the special synthetic techniques but also the proper characterization tools. The workshop will cover technical and practical aspects of analytical techniques that are used for the characterization/analysis of materials (organic and inorganic samples) which include preparation of samples, selection of method of analysis, application of proper method of analysis, interpretation of analytical data etc. The candidates will be exposed to hands on experience separation techniques e.g. HPLC and analytical techniques e.g. Polarimeter, UV-Vis, FT-IR, NMR Spectrophotometer, powder XRD, SEM, Raman, and other related technique etc.

This is an intensive two day program strategically designed to provide participants with a comprehensive overview of core start-up carrier issues related to the sciences and R&D industries.

Objectives of the Workshop

1. The main purpose of the workshop is to provide pro-hand experience on several commonly used sophisticated instrumentation in the field of science especially in chemistry and physics.
2. These include HPLC and analytical techniques e.g. Polarimeter, UV-Vis, FT-IR, NMR Spectrophotometer, powder XRD, SEM, Raman, and other related technique etc.

The workshop has provided information of instrument by lecture by the expert and hands on experience for the interpretation of data.



Group Photo of Program