

# SKILL DEVELOPMENT TRAINING

on

## Material Characterization Techniques

February 16-17, 2017

Jointly Organized by  
School of Physical Sciences & Skill Development Cell  
GURU GHASIDAS VISHWAVIDYALAYA,  
Bilaspur (Chhattisgarh), India.

### Organizing Committee

#### CHIEF PATRON

Prof. Anjila Gupta, Honorable, Vice Chancellor.  
Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur.

#### PATRON

Prof. P. K. Bajpai, Dean School of Physical Science  
Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur

#### COURSE CO-ORDINATOR

Dr. Subhash Banerjee, Member Skill Development Cell,  
School of Physical Sciences, Guru Ghasidas Vishwavidyalaya (A Central University), Bilaspur.

Registration fee: 200/- from each participant  
Target group: UG/PG students, Research Scholars, young researchers  
Number of participants: 150

#### Background

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. UV-Vis, powder XRD, SEM, 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 hands on experience on several commonly used sophisticated instrumentation in the field of sciences especially in chemistry and physics.
2. These include separation and analytical techniques e.g. HPLC, UV-Vis, CV, powder XRD and SEM.
3. The workshop will provide basic theoretical background of the each technique, instrumental details through lectures by the expert and hands on experience for measurement and data interpretation through actual demonstration instruments.
4. Demonstration of sample measurement and plotting of the relevant parameter that are used for the identification of materials.

#### Program schedules

16/02/2017	
09:30-11:00	Registration of participants
11:00 AM-11:45	Inauguration session
12:00 AM-01:00 PM	Tea Break
01:00 PM-02:00 PM	Technical session I
02:00 PM-03:00 PM	Lunch Break
03:00 PM-05:30 PM	Practical/demonstration
17/02/2017	
09:00 -10:00 AM	Tea
10:00 PM-02:00 PM	Technical session II
02:00 PM-03:00 PM	Lunch Break
03:00 PM-04:00 PM	Practical/demonstration
04:00PM-05:00 PM	Valedictory Ceremony

**REGISTRATION FORM**  
**SKILL DEVELOPMENT TRAINING**  
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1. Name:.....
2. Qualification:.....
3. Department & Semester:.....
4. Address:.....  
.....
5. Mobile No:.....
6. Email:.....
7. Qualification:.....
8. Experience if any related to analytical techniques:.....  
.....
  
9. How the workshop will helpful for your future plan:.....  
.....  
.....

Signature of Candidate:.....  
Date:.....

Head of Department  
Date:

**For further information please contact**

Dr. Subhash Banerjee, Department of Chemistry, GGV, Bilaspur.  
Course Coordinator  
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Email: [ocsb2006@gmail.com](mailto:ocsb2006@gmail.com)

Received Rs:.....as Registration fee for skill development Training on Material Characterization Techniques, Jointly Organized by Skill Development Cell & School of Physical Science

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