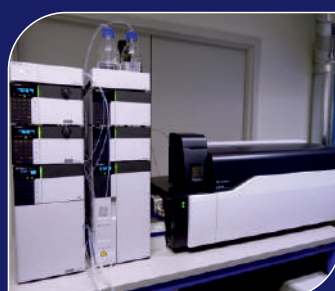




Insight and Hands on Training on X-ray and Chromatography based Techniques for Academic & Industrial Innovations

[National Mission for Accelerating Growth of New India's Innovation (AGNI)]

27th May to 3rd June 2022



Under the aegis of

**SYNERGISTIC TRAINING PROGRAM UTILIZING THE SCIENTIFIC AND
TECHNOLOGICAL INFRASTRUCTURE (STUTI)**

Organized by

**Department of Chemistry and
Center of Advanced Studies**

&

**Sophisticated Analytical Instrumentation Facility (SAIF)/
Central Instrumentation Laboratory (CIL)
Panjab University, Chandigarh**

Website: stuti.puchd.ac.in



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SYNERGISTIC TRAINING PROGRAM UTILIZING THE SCIENTIFIC AND TECHNOLOGICAL INFRASTRUCTURE (STUTI) PROGRAM OF THE DEPARTMENT OF SCIENCE & TECHNOLOGY (DST), GOVERNMENT OF INDIA, IS INTENDED TO BUILD HUMAN RESOURCE AND ITS KNOWLEDGE THROUGH OPEN ACCESS TO S & T INFRASTRUCTURE ACROSS THE COUNTRY.

PANJAB UNIVERSITY



Panjab University is one of the oldest Universities in India. It has a long tradition of pursuing excellence in teaching and research in science and technology, humanities, social sciences, performing arts and sports. The Panjab University, with its 78 teaching and research departments besides 4 chairs for the research on the main campus at Chandigarh, has 188 affiliated/constituent colleges spread over Punjab and Chandigarh besides Regional Centres at Muktsar, Ludhiana, Hoshiarpur and Kauni. In addition, there is the Vishveshwaranand Vishva Bandhu Institute of Sanskrit and Indological Studies (VVBIS&IS) at Hoshiarpur.

SAIF/CIL

SAIF, formerly known as RSIC at Panjab University Chandigarh was incepted in the earlier years of the 6th plan. The complete facilities of SAIF, CIL and UCIM are working in unison in the service of research and also for imparting practical training to the students through workshops. The Centre also undertakes the design, fabrication and repair of electronic instruments required by students and teachers from the University and the colleges around. It also runs training programmes in technical skills for the benefit of scientific community and associated laboratory staff from different institutions.



DEPARTMENT OF CHEMISTRY & CENTER OF ADVANCED STUDIES



Founded by Dr. S.S. Bhatnagar at Lahore in 1925, the Department of Chemistry is one of the prestigious departments of Panjab University. Several faculty members are recipients of coveted awards such as Shanti Swarup Bhatnagar award, Jawaharlal Nehru fellowship, Raman and Palit awards. Many faculty members are bestowed with F.N.A., F.A.Sc., F.N.A.Sc., The Department of Science and Technology (DST), Government of India has accorded it the status of "DST-FIST Supported Department". The department has good instrumental facilities and its library is perhaps one of the best libraries in Northern India with its excellent collection of books, research journals and monographs. Website: <http://chemistry.puchd.ac.in>

PROGRAM HIGHLIGHTS

- *To get the insight and hands on training on X-ray, Mass Spectrometry and Chromatography based Techniques for Academic & Industrial Innovations*
- *XRD techniques are extensively used by researchers for academics and industrial applications. Therefore the hands on training on X-ray techniques including Single crystal diffraction, powder XRD, SAXS, WDXRF for the qualitative and quantitative analysis will be provided.*
- *Chromatography plays a vital role in academia and industry for the testing of samples for purity. The programme will enable the separation, identification, and purification of the components of a mixture for qualitative and quantitative analysis using HPLC, GC-MS, LC-MS, MALDI, etc.*
- *During the training program the participants will get the opportunity to visit SAIF/CIL and other near by institutions to get glimpse of state of the art instrumentation. The participants will get the golden opportunity to interact with eminent researchers from different fields.*

LEARNING OUTCOMES OF THE PROGRAM

The up gradation of knowledge and hands on expertise of students, researchers, and faculty members on the variety of characterization techniques to gain deeper understanding of sophisticated techniques, develop data analysis, interpretation skills, and gain the ability to apply their theoretical knowledge to practice

COMMERCIAL PROSPECTIVE OF PROGRAM

The insight of advanced analytical techniques will contribute towards understanding of scientific and industrial processes needed commercially to bring innovations among different fields catering to applied sciences, and industrial sectors.

COST OF THE PROGRAM

- *This training program is sponsored by DST-STUTI and the registration is free.*
- *The reimbursement of only train ticket for Domestic travel is provided for out stationed faculty and other participants*
- *Depending upon the availability of accommodation in the Panjab university, the accommodation is provided in single/double occupancy basis.*
- *Accommodation request should be made at least 10 days before the start of training program.*

REGISTRATION



- *The participants can apply for the training program by sending email with the filled below attached Bio-data form to stuti.chemistry1@gmail.com*
- *The application deadline is 6th May, 2022.*

SELECTION



- *The received applications are scrutinized by the STUTI training program selection committee and the decision of the committee will be final.*
- *Selected candidates will be informed through email.*
- *The seats in the training programs are limited.*

TARGET AUDIENCE



TARGET
AUDIENCE

This training program is highly beneficial for the participants who are seeking basic and advanced level training in XRD and chromatographic techniques to get insight into their research and other industrial based technical operations. The training program enhances the working horizon among faculty, Post-doc fellow, PhD Fellow. The scope of the training program is also extended to the industrial persons who are extensively involved in new molecules production and their detailed qualitative and quantitative descriptions. The post graduate students who have received their degree can also apply for this 7 day training program.

ORGANIZING COMMITTEE

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Queries regarding the training program may be sent at stuti.chemistry1@gmail.com

FORMAT FOR BIODATA

Recent
Photograph

Name (Prof/Dr/Mr/Ms)	
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Designation	
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Organization	
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Date of entry in service	
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Category (General/SC/ST/OBC)	
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Date of birth	
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Sex (M/F)	
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Corresponding address	
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Permanent address	
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Contact details	Phone no.	Mobile no.	E-mail

Educational/ Professional /Qualifications (Graduation onwards)					
Sr. No.	Examination/ Degree	University/ Institute	Year	Subject	Division and Percentage of marks

FORMAT FOR BIODATA

Experience					
Sr. No.	Name of the organization	Designation	From	To	Duty performed

Training attended				
Sr. No.	Year	Name of training program	Name of the institute	Duration

Research experience				
Sr. No.	Year	Name of research	Sponsoring agency	Gist of research

Research paper published/accepted; Patent filed/obtained				
Sr. No.	Year	Title of paper/book	Gist of paper	Name of journal/magazine/publisher

FORMAT FOR BIODATA

Relevance of this program for your current & future activities	
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Have you studied any of these characterization techniques? If yes, please mention	
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Accommodation Requirement (Yes/No)	
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Briefly give details of significant contribution made by you in the field of science & technology during your career. (100 words)

Date:

(signature)