



Department of Science & Technology
Government of India

HANDS ON TRAINING PROGRAM

A COMPREHENSIVE APPROACH TO SPECTROSCOPY & CHROMATOGRAPHY

[VAIGYANIK BHARAT, ATMANIRBHAR BHARAT]

Synergistic Training Program Utilizing the
Scientific and Technological Infrastructure (STUTI)

AUGUST 22 - 28, 2022 @ M.G. University, Kottayam

Organised by

**Sophisticated Analytical Instrument Facility (DST- SAIF)
Mahatma Gandhi University, Kottayam**

In Association with

**Sophisticated Analytical Instrument Facility (DST- SAIF)
Panjab University, Chandigarh**



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ABOUT STUTI PROGRAM

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.

MAHATMA GANDHI UNIVERSITY, KOTTAYAM, KERALA

Mahatma Gandhi University, one of the major Universities in Kerala, is a premier educational institution that strives to fulfill the higher educational needs of the people from Central Kerala. The University was established on 2nd October 1983 and has jurisdiction over the revenue districts of Kottayam, Ernakulam, Idukki and parts of Pathanamthitta and Alappuzha. Mahatma Gandhi University holds 30th position among University category and 51st position in overall category of NIRF 2022. Also MGU holds 702th position in Times Higher Education World University Ranking.



SAIF, MG University Kottayam

Sophisticated analytical instruments are vital for pursuing research in many areas of modern science and technology. Many institutions in the country do not have such instruments. These instruments are expensive and cannot be provided through individual project mechanism. The Department of Science & Technology has set up Sophisticated Analytical Instrument Facilities (SAIFs) in different parts of the country to provide the facilities of sophisticated analytical instruments to the research workers in general and specially to the institutions which do not have access to such instruments. DST-SAIF centre at M.G. University is operational since 2013. Confocal Raman with AFM, Fluorescence spectrometer with life time detector, LC-MS/MS & FESEM are the instruments available in the facility.

PANJAB UNIVERSITY, CHANDIGARH

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, Panjab University, Chandigarh

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.



PROGRAM HIGHLIGHTS

To get the insight and hands on training on LC-MS/MS, ICP-MS, LC-QTOF, HPLC, FESEM, UV-Visible spectrophotometer, Fluorescence spectrometer with Lifetime Detector and Confocal Raman Microscope with AFM. During the training program the participants will get the opportunity to visit SAIF & field visit 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.

PROGRAM COST

- The Program is funded by DST- STUTI program and registration is free of cost.
- Reimbursement for train fare to the participating candidates from outstations will be provided.
- Participating candidates should make request for the accommodation during registration process.



LCQToF

LCMSMS

HPLC



Confocal Raman
Microscope with AFM

Fluorescence Spectrometer
With Lifetime Detector



ICPMS

FESEM

UV Visible Spectrophotometer

REGISTRATION

Participants are required to apply for the training program by sending an email to dststuti.mgu@gmail.com along with the biodata in the format given in the website www.saifmgu.in. The application deadline is July 31st, 2022

SELECTION CRITERIA

The applications received shall be scrutinized as per eligibility of participants by the STUTI training program selection committee and decision of the committee will be final. Selected candidates will be notified through email. The number of seats in the training program are limited.

TARGET AUDIENCE

This training program is highly beneficial for the participants who are seeking basic and advanced level training in Spectroscopy and Chromatography techniques to get insight into their research and other industrial based technical operations. The training program enhances the working horizon among faculty, Post-doc Fellows and Research Scholars. The scope of the training program is also extended to the industrial persons who are extensively involved in Spectroscopy and Chromatography. The post graduate students who have completed their Course can also apply for this 7-day training program.

CONTACT DETAILS

Mail us : dststuti.mgu@gmail.com

Call us : 09447491686 (Mrs. Shiny Thomas)

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 (O)	Mobile no.	E-mail

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

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

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)