SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

Azadi Ka Amrit Mahotsav

विज्ञान एवं प्रौद्योगिकी विभाग
DEPARTMENT OF
SCIENCE & TECHNOLOGY
सत्यमेव जयते

NATIONAL INSTITUTE OF TECHNOLOGY WARANGAL
Warangal - 506 004, Telangana
Synergistic Training Program Utilizing the Scientific and Technological Infrastructure (STUTI)

Call for Registration and Participation
Training Program on R&D Equipment

Theme: Theory and Hands-on Training on Advanced Characterization Techniques
Program Dates: 26th April – 2nd May 2023
Venue: Sathyabama Institute of Science and Technology, Chennai

Register before: 17th April 2023

Scan to Register

No Registration Fee

Click to Register: https://forms.gle/eb3whP9hY26SBjXs9

Objectives of the Program:

To enable the participants to understand the principles, applications, and hands-on experience on sophisticated analytical instruments.

To gain knowledge about the in-depth analysis of the characterization techniques using high-end analytical instruments.

To interact with eminent professors/ scientists/ industrial research personnel and discuss real-time research and make collaborations.

To encourage the participants to utilize the facilities and enhance the research temper.

To create a research-friendly atmosphere by letting the creative minds of the country exchange ideas and share their knowledge among their fellow participants.

Eligibility Criteria:

Persons of Indian origin.
Faculty / Scientists / Post-Doc Fellows / Ph.D. Fellows / Industry Persons / M.Sc. students/ M.Tech. Students who are actively involved in research and development (R&D) in the fields of Material Sciences, Chemical Sciences, Life Sciences or any relevant area.

Important Instruction:

Fill in the prescribed bio-data form attached with this brochure and get it endorsed by the head of the institution. And keep the scanned copy ready, which needs to be uploaded during registration.

Organized by
Sathyabama Institute of Science and Technology, Chennai (Spoke) &
NIT Warangal, Telangana (Hub)
Funded by DST, Govt of India

About Sathyabama Institute of Science and Technology:

Sathyabama Institute of Science and Technology is one of the leading Higher Educational Institutions in India with a high reputation for teaching and research excellence. It is a Deemed to be University, established under Sec.3 of UGC Act, 1956 and has been accredited with 'A' Grade by the National Accreditation and Assessment council. Sathyabama has a good presence in rankings and ratings at National and International level. The Institution has been ranked in 43rd position by the National Institutional Ranking Framework (NIRF), Government of India among the Universities in India for the year 2022 and ranked one among the top 50 Universities for seven consecutive years. Sathyabama is ranked among the Top 5 Institutions in the Country for Innovation by ATAL ranking of Institution for Innovation Achievements, Govt. of India. Sathyabama Institute of Science & Technology has alliances with leading Universities and research establishments at National and International Level. It is a research-intensive University with world class laboratories and research facilities and is involved in research in the emerging areas of Science and Technology.

About NIT Warangal:

National Institute of Technology Warangal, formerly known as Regional Engineering College, was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate, 35 post-graduate programs and guiding 952 PhD scholars besides post-doctoral programs. About 6864 students across the country including international students' study on the campus. It is a fully residential campus spread across 250 acres with excellent infrastructure in the form of state-of-the-art library, seminar halls, guest houses and research laboratories.

STUTI Team:
Chairman
Prof. N. V. Ramana Rao,
Director, NIT Warangal
Dr. T. Sasipraba,
Vice Chancellor, SIST, Chennai

Co-Chairman
Prof. Somasekhar V.T.,
Dean (R&C), NIT Warangal
Dr. B. Sheela Rani,
Director-Research, SIST, Chennai

Convenor
Sri S Goverdhan Rao,
Registrar, NIT Warangal

Principal Investigator
Prof. N. Narasaiah,
Dept. of Metallurgical and Material Engineering, NIT Warangal, STUTI

Co-Principal Investigator
Dr. T K Sai,
Principal Scientific Officer, CRIF, NITW

Program Coordinators
Dr. Sudha Uthaman, *Assistant Professor, SIST*
Dr. Sanjeevi Prasath. S, *Assistant Professor, SIST*
Sri Harish Madupu, *Technical Officer, CRIF,*

Note:
The shortlisted candidates will be intimated through mail. All the selected participants have to submit the uploaded bio-data form physically for the confirmation of participation.

Non-local participants are eligible for boarding/ lodging at Sathyabama Institute of Science and Technology, Chennai on double sharing basis.

For domestic travel of participants, the reimbursement for train/bus tickets is allowed as per actual up to 3AC fare (for outstation participants only).

Contact Us:
Sri Harish Madupu,
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Dr. Sudha Uthaman
Dr. Sanjeevi Prasath. S
Assistant Professor, SIST, Chennai

Technical Committee
Dr. Vengatesh. P
Dr. L. Stanley Abraham
Dr. Anandh Jesuraj. S
Dr. Gopika. G
Mr. Vigneshwaran. B
Mr. Saravanan. C
Mr. Jayakanth. J
Ms. Sidhika
Ms. M. Dhanalakshmi

About STUTI:

The Scheme 'Synergistic Training program Utilizing the Scientific and Technological Infrastructure' (STUTI) is intended to build human resource and its knowledge capacity through open access S&T Infrastructure across the country. As a complement to the various schemes of DST funding for expansion of R&D Infrastructure at academic institutions, STUTI scheme envisions a hands-on training program and sensitization of the state-of-the-art equipment as well as towards sharing while ensuring transparent access of S&T facilities.

Instruments covered for training:

RAMAN Spectrophotometer	HPLC-PDA	HRSTEM	Particle Size Analyzer
E-Beam deposit system	GC-FID	PCR	Animal Research Facilities
FESEM	AFM	TG-DSC/DTA	Cell Culture Facilities
FTIR	XRD	ICP-MS	Spectro-fluorometer

E-Beam depot system

Make: FRANCE
Model: MEB 600, Plassys

Applications: Optical thin film applications as laser optics and solar panels to eyeglasses and architectural glass

HRSTEM

Make: Thermofisher Scientific, USA
Model: TALOS F200S G2

Applications: To image atomic structure of molecules

FESEM

Make: GERMANY

Model: ZEISS SIGMA 300

Applications: Surface morphology, advanced coating thickness and structure uniformity determination

AFM

Make: Ireland
Model: NTEGRA PRIMA-NTMDT
Applications: Used for imaging of almost any type of surface, including polymers, ceramics, composites, glass and biological materials

Confocal RAMAN Spectrophotometer

Make: Renishaw

Model: Renishaw

Applications: To study the vibrational, rotational, and low-frequency modes of the molecules.

FTIR

Make: Japan

Model: JASCO, FTIR 6600

Applications: To quickly and definitively identify compounds such as compounded plastics, blends, fillers, paints, rubbers, coatings, resins, and adhesives

XRD

Make: Thermofisher Scientific, USA

Model: ARL EQUINOX 3000

Applications: Identification of unknown crystalline materials (e.g. minerals, inorganic compounds)

High Performance Liquid Chromatography-PDA

Make: Waters, USA
Model: 2545 HPLC-PDA
Applications: pharmaceutical, bioanalytical, food and beverage, clinical, forensic, environmental and drug development.

Thermal Cycler

Make: Agilent Technologies

Model: SureCycler 8800

Applications: Amplification of target gene using PCR for various downstream applications such as genotyping, cloning, mutation detection, sequencing, microarrays, forensics, etc.
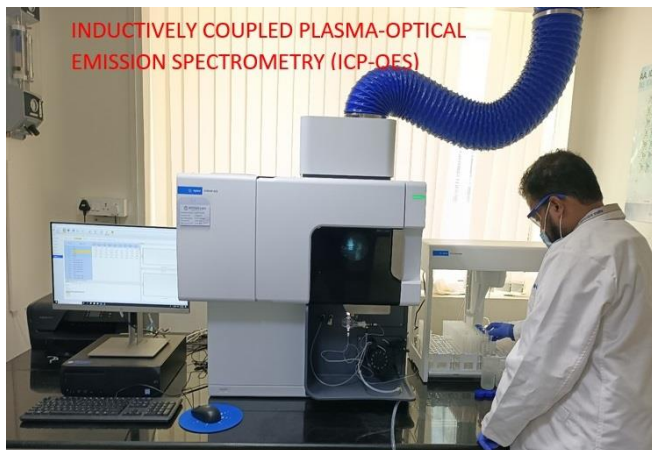
Inductively coupled plasma mass spectrometry (ICP-MS)

Make: Agilent Technologies, USA

Model: 7700

Applications: Inductively coupled plasma mass spectrometry (ICP-MS) is an analytical technique that can be used to measure elements at trace levels in biological fluids

Particle Size Analyzer

Make: Nanopartica

Model: SZ 100V2

Applications: Particle analyzers are used to determine the size and distribution of particles making up a material. Particle size analyzers are used in numerous fields for research and development, manufacturing and for quality control and product testing.

BIODATA FOR STUTI-21 DST TRAINING PROGRAM

NAME
Prof./Dr./Mr./Ms.

DESIGNATION

ORGANIZATION

DATE OF ENTRY IN SERVICE

CATEGORY (GENERAL / SC / ST / OBC)

DATE OF BIRTH

SEX (M/ F)

COMPLETE ADDRESS (OFFICE)

COMPLETE ADDRESS (RESIDENCE)

CONTACT DETAILS	PHONE (O)	PHONE (R)	MOBILE No.	E-MAIL

CONTD. 2

EDUCATIONAL / PROFESSIONAL QUALIFICATIONS (GRADUATION ONWARDS)					
Sr. No.	EXAMINATION/ DEGREE	UNIVERSITY/ INSTITUTE	YEAR	SUBJECT	DIVISION/PERCENTA GE OF MARKS

EXPERIENCE					
Sr. No.	NAME OF THE ORGANISATION	DESIGNATION	FROM	TO	DUTY PERFORMED

TRAINING ATTENDED				
Sr. No.	YEAR	NAME OF THE TRAINING PROGRAMME	NAME OF THE INSTITUTE	DURATION

RESEARCH EXPERIENCE

Sr. No.	YEAR	TOPIC OF RESEARCH	SPONSORING AGENCY	GIST OF REASEARCH

PAPER PUBLISHED / PATENT FILED/OBTAINED

Sr. No.	YEAR	TOPIC OF PAPER/ BOOK	GIST OF PAPER	NAME OF JOURNAL/ MAGZINE/ PUBLISHER

Briefly give details of significant contribution made by you in the field of Science & Technology during your career. (100 words)

Date:
Place:

(Signature of the Participant)

(Head of the Institution)