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

organized by

DST-PURSE, CARRT, MHRD-RUSA NMR Instrument Centre

MANGALORE UNIVERSITY

KARNATAKA, INDIA.

"November 14-20, 2022"

In collaboration with

Shivaji University, Kolhapur, Maharashtra.

Supported by

Department of Science and Technology,
Ministry of Science and Technology, Government of India.

About Organizing University/Institute:

Mangalore University (MU) was established in 1980. The main campus called as, 'Mangalagangotri' is located about 20 km to the south east of the port city of Mangaluru. MU aims at excellence in teaching, learning and research and to contribute towards building a socially-sensitive humane inclusive society.

MU has grown impressively since its inception. Excellent research performance of MU is recognized by the award of PURSE grant by the Department of Science and Technology (DST) in two phases. PURSE lab houses sophisticated instruments *viz.*, FESEM, Confocal Microscope, Single Crystal XRD, LCMS, GCMS, Amino Acid Analyzer etc.

The Centre for Application of Radio Isotopes and Radiation Technology (CARRT) was set up at MU in association with Board of Research in Nuclear Science (BRNS) and the Board of Radiation and Isotope Technology (BRIT), Department of Atomic Energy. Ministry of Human Resource Development has identified MU for the Rashtriya Uchchatar Shiksha Abhiyan (RUSA) Grant. Under this grant, a NMR facility has been established. In addition, MU has also established several research centres *viz.*, Microtron Centre, CARER, OASTC etc., through research grants.

About STUTI:

STUTI stands for 'Synergistic Training Program Utilizing the Scientific and Technological Infrastructure' funded by the DST, Government of India. The Scheme is intended to human resource and its capacity building through open access to S & T Infrastructure across the country by organizing training program on DST supported R&D equipment targeting Scientists/Professors/PhDs and PDFs actively involved in research across various institutions in the country.

About Shivaji University:

Shivaji University, established on 18th November, 1962 has 276 affiliated colleges with 40 post-graduate departments. Recently, accredited with NAAC 'A++' grade with CGPA 3.52 in its forth cycle of reaccreditation 2021. Various science departments of Shivaji University are well equipped with different sophisticated instruments and laboratory infrastructures procured using funds from various funding agencies STUTI project is sanctioned by DST, New Delhi to SUK worth Rs. 2.25 crore for organizing training programs on various sophisticated instruments.

Course Contents:

The main theme of this training program is to aware of the participants regarding the sophisticated instruments for characterization such as Morphological Characterization Technique (Field Emission Scanning Electron Microscope, Confocal Microscope), Compositional Characterization Techniques (EDS, GCMS-MS, and LCMS), Structural Characterization Techniques (Single Crystal XRD, Particle Size Analyzer, and TGA-DTA-DSC) etc. The training program includes theory lectures as well as demonstration/hands on training on the sophisticated instruments by experts in the field.

Goal of STUTI Program:

- The participants will understand and familiarize with the various sophisticated instruments supported by DST, GoI and other funding agencies available for research.
- The participants will get skill based knowledge about the handling of the sophisticated instruments and characterization techniques.
- The participants get acquainted with the sophisticated instruments and characterization tools will help the participants to design appropriate strategies for their research work and to implement them. Interactions with other participants will help in collaborative research.

Eligibility:

- Participants should be Indian Citizens.
- Assistant/Associate Professors/Professors/Scientists/Post Doc. Fellows/ Ph.D. Fellow and B. Tech. students who are actively involved in the field of basic or allied sciences or engineering.
- Industry professionals who are actively involved in R&D

Registration Procedure:

- Interested candidates will have to fill the online form (link given below) on or before **20/08/2022**.
- Candidates will be selected based on eligibility and available seats. The confirmation of selection will be communicated to the selected candidates by 20/09/2022 by email.

General Information:

- Registration for the training programme is **free.**
- Registration Kit, Course material and Certificate of participation will be provided to the participants.
- Free accommodation will be provided to outstation participants at MU guest house.
- The train fare (III tier AC or equivalent) by shortest route will be reimbursed to the outstation participants on submission of original tickets.

Special Talk Series with Hands-on Training/Demo on Sophisticated Instruments.

Registration Link: <*https://forms.gle/wauiWqP3d7V3j55VA*>

Last date of Registration: 24/09/2022 Confirmation of Selection: 03/10/2022

Chief Patron:

- Prof. P. Subrahmanya Yadapadithaya, Hon'ble Vice Chancellor, MU

Patrons :

- Prof. Kishore Kumar C.K., Registrar, MU
- Prof. P.L. Dharma, Registrar (Evaluation), MU
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- Dr. Shamprasad Varija Raghu, DBT Ramalingaswamy Fellow, Dept, of Applied Zoology, MU

STUTI Program Coordinator:

Prof. R. G. Sonkawade,
Coordinator, SAIF,
Shivaji University, Kolhapur

Programme Committee:

Convener:

- Prof. Vishalakshi B., Coordinator, DST-PURSE Instrumentation Centre, MU

Co-conveners:

- Prof. Boja Poojary, Deputy Coordinator, DST-PURSE Instrumentation Centre and NMR Lab in-charge, MU.
- Prof. Karunakara N., Coordinator, Centre for Advanced Research in Environmental Radioactivity (CARER)

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- Ms. Vinitha D'Sa, Research Assistant
- Mr. Anil Kumar, Technical Assistant
- Dr. Sudeep Kumara, Scientific Officer, CARER
- Dr. Yashodara I, Scientific Officer, CARRT
- Dr. Rashmi Nayak, Research Consultant, CARER

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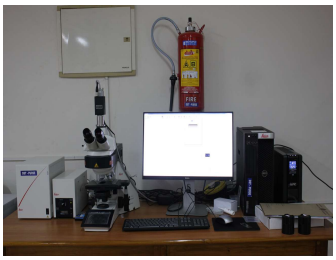
FESEM-EDS

Single Crystal XRD

GCMS



Cyto Genetic Workstation

Confocal Microscope

Amino Acid Analyzer

LCMS

NMR SYSTEM
Model/Make: Jeol,
JNM-ECZ400S/L1, Japan

Laser Particle Size Analyzer

TGA-DSC

Gamma Chamber GC 5000