

REPORT

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

5th JANUARY 2023 to 11th JANUARY 2023

Organized by

Departments of Physics and Chemistry
Manipal Institute of Technology, Manipal, Karnataka, India

In collaboration with

Shivaji University, Kolhapur, Maharashtra

Supported by

DST, Government of India, New Delhi

JANUARY 2023

Chief Patron:

Dr. Ramdas M Pai, Chancellor, MAHE, Manipal

Dr. H S Ballal, Pro Chancellor, MAHE, Manipal

Patrons:

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Dr. P Giridhar Kini, Registrar, MAHE, Manipal

Dr. (Cdr) Anil Rana, Director, MIT, Manipal

Dr. Somashekhara Bhat, Joint Director, MIT, Manipal

STUTI Program Coordinator:

Prof. R. G. Sonkawade

PMU Coordinator, STUTI Program, Shivaji University, Kolhapur, Maharashtra

Programme Committee:**Conveners:**

Prof. Mohan Rao K

Head, Department of Physics, MIT, Manipal

Prof. Suma A Rao

Head, Department of Chemistry, MIT, Manipal

Coordinators:

Dr. Ismayil

Department of Physics, MIT, Manipal

Dr. Gurumurthy S C

Department of Physics, MIT, Manipal

Dr. Sudhakar Y N

Department of Chemistry, MIT, Manipal

**Department of Physics and Chemistry, Manipal Institute of Technology
Manipal Academy of Higher Education, Manipal, Karnataka, India**

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

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Ministry of Science and Technology, Government of India, New Delhi

About Manipal Institute of Technology:

Manipal Academy of Higher Education (MAHE) is synonymous with excellence in Higher Education. 30,000+ students from 65+ different nations live, learn and play in the sprawling University town, nestled on a plateau in Karnataka's Udipi district. MAHE Manipal offers 28 disciplines, 12 Program levels, 350+ programs through 31 institutions / departments. MAHE also has campuses in Mangaluru, Bengaluru & Jamshedpur and off-shore campuses in Dubai (UAE) & Melaka (Malaysia). MAHE is one of the first six institutes to be awarded the Institute of Eminence (IoE) status in 2018. MAHE is also accredited by NAAC 'A++' grade with CGPA 3.65. Manipal Institute of Technology (MIT), one of the constituent institutes of MAHE, is known far and wide as an excellent technical institute in the country. It started in 1957 as a self-financed engineering college by Dr. T. M. A. Pai. Department of Physics and Chemistry are the founder departments of the Institute. Currently, these departments have grown and developed into a centre of PG studies and research.

About STUTI:

STUTI stand for "Synergistic Training program Utilizing the Scientific and Technological Infrastructure" Program funded by the Department of Science & Technology (DST), Government of India. The Scheme is intended to build 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, Kolhapur, 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 such as TEQIP I & II, DST-PURSE I & II, DST-FIST I & II, SAIF, UGC-SAP I & II, UGC DRS, MHRD RUSSA Centers for Alternative Medicine, Nanofabrics and VLSI Design, DBT-IPLS, RGSTC, Erasmus Mundus+ (EU projects), MHRD PMMNMTT Centre for Cyber Security & Data Science, DBT-BUILDER etc. 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 or characterization such as Morphological Characterization Technique (SEM and AFM), Structural Characterization Technique (XRD, FTIR, NMR and TGA) and Thin film fabrication Technique (DC & RF Sputtering, Spray Pyrolysis), Optical Characterization (UV-Vis-NIR, PL), Electrochemical work station, Impedance Analyzer, Hall Effect and Resistivity Measurements, Flash Chromatography, Profilometer etc. The training program includes theory lectures as well as Demonstration/Hands on Training on the sophisticated instruments throughout the program.

Goal of STUTI Program:

- The participants will understand and familiarize with the various sophisticated instruments supported by DST, GoI and other funding agencies.
- The participants will get skill based knowledge about the handling of various sophisticated instruments and characterization techniques.
- The interaction of participants with researchers and other participants will help them in collaborative research.

Eligibility:

- Participants should be Indian Citizen.
- Minimum qualification should be Post Graduate (Science) or B.Tech. (Technology).
- Faculty/ Scientists/ Post-Doc Fellows/ Ph.D. Fellows/ Industry persons who are actively involved in research and development (R&D).
- Not more than 3 people from one institute per training will be allowed from outside the host institute.

Registration Procedure:

- Interested candidates have to fill the online MS form (link given below) on or before 22/12/2022.
- Participants should send a brief CV (not more than 3 pages) and Recommendation/Permission letter by the Institute Head/HOD/Research Supervisor as a SINGLE pdf file (both combined) to the email IDs given below.
- Candidates will be selected according to eligibility and available seats.
- The confirmation of selection will be communicated to the selected candidates on 24/12/2022 by email.
- Registration Link:
<https://forms.office.com/r/UyHaK0k8D3>

Contact : Program Coordinators

Dr. Ismayil (+91 9845497546) Dr. Gurusurthy S C (+91 9449740014)

Email: ismayil.mit@manipal.edu, gurusurthy.sc@manipal.edu **Website:** www.manipal.edu

General Information:

- Registration for the training program is **FREE**.
- Registration kit, Course material and Certificate of participation will be provided to the participants.
- Local Hospitality (accommodation & Meal) will be provided.
- The train fare (3AC or equivalent) by shortest route will be reimbursed to the selected outstation participants on submission of original tickets.
- Participants are encouraged to bring their samples if any, for hands on analysis during the program.

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Coordinator, SAIF, Shivaji University, Kolhapur, Maharashtra

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Department of Physics, MIT, Manipal

Dr. Gurumurthy S C

Department of Physics, MIT, Manipal

Dr. Sudhakar Y N

Department of Chemistry, MIT, Manipal



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

Registration Link: <https://forms.office.com/r/UyHaK0k8D3>

Last date of Registration: **22/12/2022**

Confirmation of Selection: **24/12/2022**



PROGRAM SCHEDULE

Day 1 : 05-01-2023, Thursday (Venue: Sir M V Seminar Hall, AB-2, MIT, Manipal)			
8:15 - 9:15 am	Registration and Breakfast		
9:30 – 10:45 am	Inaugural Ceremony: President: Cdr. (Dr.) Anil Rana, Director, Manipal Institute of Technology, Manipal Chief Guest: Dr. Vinod V Thomas, Registrar Evaluation, Manipal Academy of Higher Education, Manipal Guest of Honour: Prof. R G Sonkawade, PMU Coordinator, STUTI Program, Shivaji University, Kolhapur, Maharashtra		
10:45 – 11:15 am	Tea and Photo Session		
Venue: LH 08, LG -01 Floor, AB5, MIT			
11:15 am – 12:45 pm	Plenary Lecture 1: “X-ray diffractometry of Powder and Thin Films: Instrument Operational Parameters” by Prof. R G Sonkawade, Shivaji University, Kolhapur.		
12:45 – 2:00 pm	Lunch		
2:00 – 3:20 pm	Plenary Lecture 2: “Atomic Absorption Spectroscopy (AAS) & Inductively Coupled Plasma (ICP) : Introduction, Instrumentation & Practical Aspects” by Prof. K. Balakrishna, Department of Civil Engineering, MIT, Manipal.		
3:20 – 3:30 pm	Tea Break		
Lab sessions:	Lab 1: XRD	Lab 2: AAS	Lab 3: ICP
3:30 – 4:15 pm	Group A	Group B	Group C
4:15 – 5:00 pm	Group B	Group C	Group A
5:00 – 5:45 pm	Group C	Group A	Group B
7:30 – 9:00 pm	Dinner		

Day 2 : 06-01-2023, Friday (Venue: LH 08, LG - 01 Floor, AB5, MIT)			
8:15 - 9:15 am	Breakfast		
9:30 - 11:00 am	Plenary Lecture 3: “X-ray Photoelectron Spectroscopy: A Surface Sensitive Technique and its operational parameters” by Dr. Maqsood Waikar, Shivaji University, Kolhapur		
11:00 – 11:15 am	Tea Break		
11:15 am – 12:45 pm	Plenary Lecture 4: “Laser spectroscopic instrumentation and its applications” by Dr. Unnikrishnan V K, Department of Atomic and Molecular Physics, Manipal.		
12:45 – 2:00 pm	Lunch		
Lab sessions:	Lab 4: UV-Vis	Lab 5: Profilometer	Lab 6: Laser lab
2:00 – 3:05 pm	A	B	C
3:05 – 4:10 pm	B	C	A
4:10 – 4:25 pm	Tea Break		
4:25 – 5:30 pm	C	A	B
7:30 – 9:00 pm	Dinner		

Day 3 : 07-01-2023, Saturday (Venue: LH 08, LG - 01 Floor, AB5, MIT)			
8:15 - 9:15 am	Breakfast		
9:30 - 11:00 am	Plenary Lecture 5: “Transmission Electron Microscope: Instrument Operational Parameters and use of I-STEM”, by Prof. R G Sonkawade, Shivaji University, Kolhapur.		
11:00 – 11:15 am	Tea Break		
11:15 am – 12:45 pm	Plenary Lecture 6: “Principle and variants of sputtering techniques for preparation of thin films” by Dr. Dhananjaya Kekuda, Department of Physics, MIT, Manipal.		
12:45 – 2:00 PM	Lunch		
Lab sessions:	Lab 7: AFM	Lab 8: Impedance Analyzer	Lab 9: DC/RF sputtering
2:00 – 3:05 pm	A	B	C
3:05 – 4:10 pm	B	C	A
4:10 – 4:25 pm	Tea Break		
4:25 – 5:30 pm	C	A	B
7:30 – 9:00 pm	Dinner		

Day 4 : 08-01-2023, Sunday (Venue: LH 08, LG -01 Floor, AB5, MIT)	
8:15 - 9:15 am	Breakfast
9:30 - 11:00 am	Plenary Lecture 7: “Introduction, Instrumentation & Practical Aspects of Impedance Analyzer” by Dr. Ismayil, Department of Physics, MIT, Manipal.
11:00 – 11:15 am	Tea Break
11:15 am – 12:45 pm	Plenary Lecture 8: “Application of Atomic Force Microscopy (AFM) in Scientific Research” by Dr. Vishwanath Managuli, Department of Mechanical & Industrial Engineering, MIT, Manipal.
12:45 pm – 2:00 pm	Lunch
2:00 pm – 3:00 pm	Visit to Dr. TMA Pai Planetarium and MAP Museum, Manipal
3:00 pm – 5:30 pm	Excursion to Light House, Kaup
7:30 pm – 9:00 pm	Dinner

Day 5 : 09-01-2023, Monday (Venue: LH 08, LG -01 Floor, AB5, MIT)			
8:15 - 9:15 am	Breakfast		
9:30 - 11:00 am	Plenary Lecture 9: “NMR Spectroscopy: Principles, Instrumentation & Practical Aspects” by Dr. Sankeerth Hebbar, Principal, Kumaraswamy P U College, Subrahmanya.		
11:00 – 11:15 am	Tea Break		
11:15 am – 12:45 pm	Plenary Lecture 10: “Working principle and applications of FTIR & DSC/TGA” by Dr. Srinivasulu M, Department of Chemistry, MIT, Manipal.		
12:45 – 2:00 PM	Lunch		
Lab sessions:	Lab 10: NMR	Lab 11: FTIR	Lab 12: DSC/TGA
2:00 – 3:05 pm	A	B	C
3:05 – 4:10 pm	B	C	A
4:10 – 4:25 pm	Tea Break		
4:25 – 5:30 pm	C	A	B
7:30 – 9:00 pm	Dinner		

Day 6 : 10-01-2023, Tuesday (Venue: LH 08, LG -01 Floor, AB5, MIT)			
8:15 - 9:15 am	Breakfast		
9:30 - 11:00 am	Plenary Lecture 11: “Scanning Electron Microscopy (SEM): An Introduction, Instrumentation & Practical Aspects”, by Mr. Satya Srinivas. B, Application Specialist, Carl Zeiss India Pvt. Ltd., Bangalore.		
11:00 – 11:15 am	Tea Break		
11:15 am – 12:45 pm	Plenary Lecture 12: “Thin film fabrication using thermal evaporation, Spray Pyrolysis, Spin Coating method” by Dr. Gurumurthy S C, Department of Physics, MIT, Manipal.		
12:45 – 2:00 PM	Lunch		
Lab sessions:	Lab 13: SEM	Lab 14: PL	Lab 15: Thermal evaporation
2:00 – 3:05 pm	A	B	C
3:05 – 4:10 pm	B	C	A
4:10 – 4:25 pm	Tea Break		
4:25 – 5:30 pm	C	A	B
7:30 – 9:00 pm	Dinner		

Day 7 : 11-01-2023, Wednesday (Venue: LH 08, LG -01 Floor, AB5, MIT)			
8:15 - 9:15 am	Breakfast		
9:30 - 11:00 am	Plenary Lecture 13: “Applications of electrochemical workstation” by Dr. Sudhakar Y N, Department of Chemistry, MIT, Manipal		
11:00 – 11:15 am	Tea Break		
11:15 am – 12:45 pm	Plenary Lecture 14: “Applications of Hall Effect, Seebeck Effect and Resistivity measurements in Scientific Research” by Dr. Shyam Prasad K, Department of Physics, NMAM Institute of Technology, Nitte.		
12:45 – 2:00 PM	Lunch		
Lab sessions:	Lab 16: Electrochemical workstation	Lab 17: Hall Effect, Seebeck Effect	Lab 18: Resistivity measurements
2:00 – 2:45 pm	A	B	C
2:45 – 3:30 pm	B	C	A
3:30 - 4:15 pm	C	A	B
4:15 – 4:30 pm	Tea Break		
4:30 – 5:30 pm	Valedictory Program (Feedback Session, Certificate Distribution) (Venue: Sir M V Seminar Hall, AB-2, MIT, Manipal)		

INAUGURATION

Date: 5th January 2023, Thursday at 9:30 AM
Venue: Sir M V Seminar Hall, AB-2, MIT, Manipal

President: Cdr. (Dr.) Anil Rana, Director, MIT, Manipal

Chief Guest: Dr. Vinod V. Thomas, Registrar Evaluation, MAHE, Manipal

Guest of Honour: Prof. R. G. Sonkawade, PMU Coordinator, STUTI Program, Shivaji University, Kolhapur, Maharashtra.



GROUP PHOTO



Day 1 : 05-01-2023, Thursday



Lecture 1: “X-ray diffractometry of Powder and Thin Films: Instrument Operational Parameters”
by Prof. R G Sonkawade, Shivaji University, Kolhapur.



Lecture 2: “Atomic Absorption Spectroscopy (AAS) & Inductively Coupled Plasma (ICP) : Introduction, Instrumentation & Practical Aspects”
by Prof. K. Balakrishna, Department of Civil Engineering, MIT, Manipal.

Hands on Training:

XRD, AAS and ICP



Day 2 : 06-01-2023, Friday



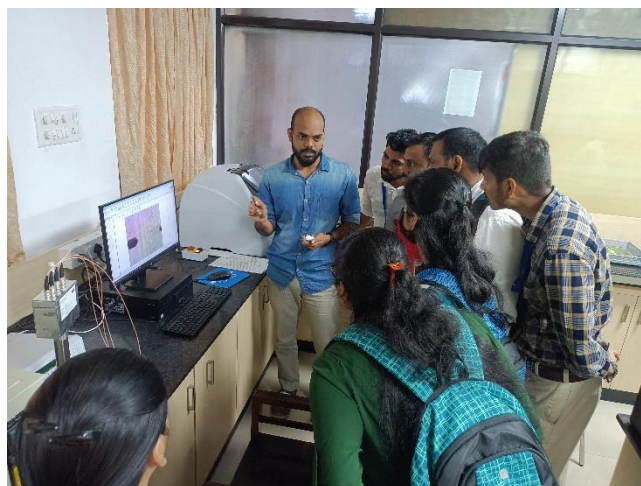
Lecture 3: “X-ray Photoelectron Spectroscopy: A Surface Sensitive Technique and its operational parameters” by Dr. Maqsood Waikar, Shivaji University, Kolhapur.



Lecture 4: “Laser spectroscopic instrumentation and its applications” by Dr. Unnikrishnan V K, Department of Atomic and Molecular Physics, MAHE, Manipal.

Hands on Training:

UV-Vis Spectrometer and Profilometer.



Day 3 : 07-01-2023, Saturday



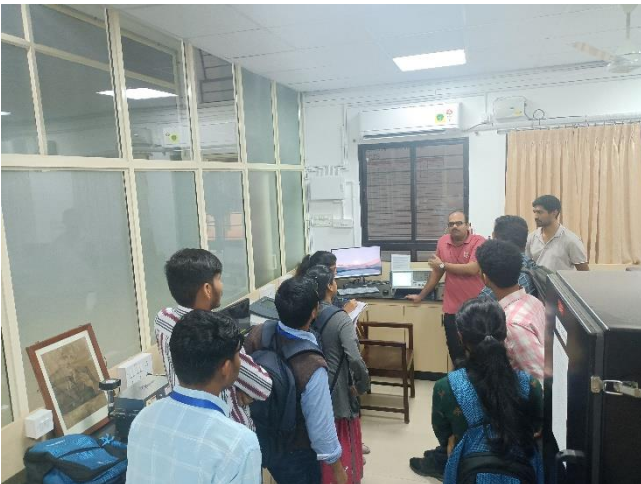
Lecture 5: “Transmission Electron Microscope: Instrument Operational Parameters and use of I-STEM”, by Prof. R G Sonkawade, Shivaji University, Kolhapur.



Lecture 6: “Principle and variants of sputtering techniques for preparation of thin films” by Dr. Dhananjaya Kekuda, Department of Physics, MIT, Manipal.

Hands on Training:

AFM, Impedance Analyzer and DC/RF sputtering



Day 4 : 08-01-2023, Sunday



Lecture 7: “Introduction, Instrumentation & Practical Aspects of Impedance Analyzer” by Dr. Ismayil, Department of Physics, MIT, Manipal.



Lecture 8: “Application of Atomic Force Microscopy (AFM) in Scientific Research” by Dr. Vishwanath Managuli, Department of Mechanical & Industrial Engineering, MIT, Manipal.



Visit to Dr. TMA Pai Planetarium, Manipal



Excursion to Light House, Kaup

Day 5 : 09-01-2023, Monday



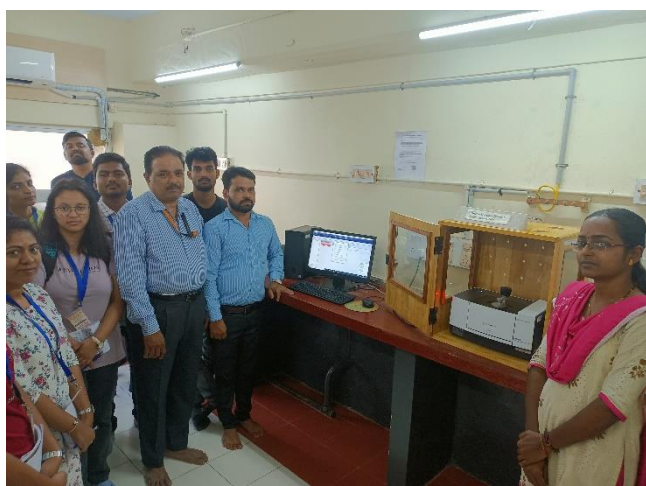
Lecture 9: “NMR Spectroscopy: Principles, Instrumentation & Practical Aspects” by Dr. Sankeerth Hebbar, Principal, Kumaraswamy P U College, Subrahmanya.



Lecture 10: “Working principle and applications of FTIR & DSC/TGA” by Dr. Srinivasulu M, Department of Chemistry, MIT, Manipal.

Hands on Training:

NMR, FTIR and DSC/TGA



Day 6 : 10-01-2023, Tuesday



Lecture 11: “Scanning Electron Microscopy (SEM): An Introduction, Instrumentation & Practical Aspects”, by Mr. Satya Srinivas. B, Application Specialist, Carl Zeiss India Pvt. Ltd., Bangalore.



Lecture 12: “Thin film fabrication using thermal evaporation, Spray Pyrolysis, Spin Coating method” by Dr. Gurumurthy S C, Department of Physics, MIT, Manipal.

Hands on Training:

SEM, PL, Thermal evaporation, Spray pyrolysis and Spin coating set up.



Day 7 : 11-01-2023, Wednesday



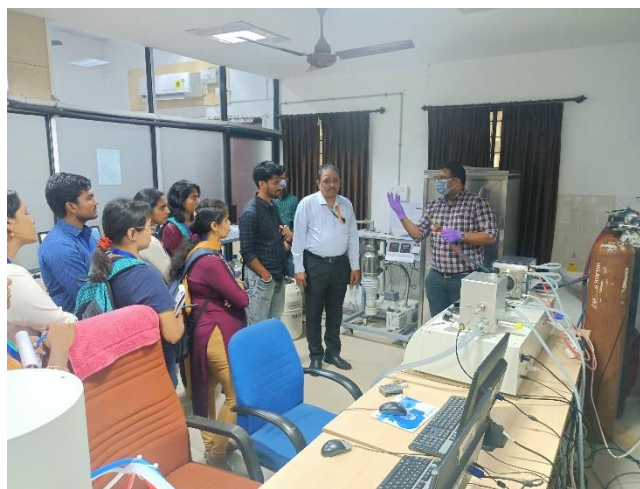
Lecture 13: “Applications of electrochemical workstation” by Dr. Sudhakar Y N, Department of Chemistry, MIT, Manipal



Lecture 14: “Applications of Hall Effect, Seebeck Effect and Resistivity measurements in Scientific Research” by Dr. Shyam Prasad K, Department of Physics, NMAM Institute of Technology, Nitte.

Hands on Training:

Electrochemical workstation, Hall Effect, Seebeck Effect and Resistivity measurements



CULTURAL PROGRAM

Date: 07-01-2023

Venue: Amphitheatre, FC2, MIT, Manipal



VALEDICTORY FUNCTION

Date: 11th January 2023, Wednesday at 4:00 PM

Venue: Sir M V Seminar Hall, AB-2, MIT, Manipal

President: Dr. Somashekara Bhat, Joint Director, MIT, Manipal

Chief Guest: Dr. Ashok Rao, Associate Director (R & C), MIT, Manipal



MEDIA COVERAGE

UDAYAVANI January 4, 2023

ಎಂಐಟಿಯಲ್ಲಿ ಇಂದಿನಿಂದ ಸಂಶೋಧಕರಿಗೆ ತರಬೇತಿ

ಮಣಿಪಾಲ, ಜ. 4: ಎಂಐಟಿಯು ಮಹಾರಾಷ್ಟ್ರದ ಕೋಲ್ಹಾಪುರದ ಶಿವಾಜಿ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಸಹಯೋಗದಲ್ಲಿ ಒಂದು ವಾರದ ಮೆಟಿರಿಯಲ್ ಕ್ಯಾರೆಕ್ಟರಿಜೇಶನ್ ಟೆಕ್ನಿಕ್ ತರಬೇತಿಯು ಸಿನರ್ಜಿಸ್ಟ್ರಕ್ ತರಬೇತಿ ಕಾರ್ಯಕ್ರಮ (ಎಸ್‌ಟಿಯುಟಿಐ)ದಡಿಯಲ್ಲಿ ಜ. 5ರಿಂದ ಆರಂಭವಾಗಲಿದೆ.

ಈ ಕಾರ್ಯಕ್ರಮವು ಕೇಂದ್ರ ಸರ್ಕಾರದ ವಿಜ್ಞಾನ ಮತ್ತು ತಂತ್ರಜ್ಞಾನ ಇಲಾಖೆ ಹಾಗೂ ಸಚಿವಾಲಯದ ಪ್ರಾಯೋಜಕತ್ವದಲ್ಲಿ ನಡೆಯಲಿದೆ. ದೇಶದ ವಿವಿಧ ಸಂಸ್ಥೆಗಳಲ್ಲಿ ಸಕ್ರಿಯವಾಗಿ ಸಂಶೋಧನೆಯಲ್ಲಿ ತೊಡಗಿರುವ ವಿಜ್ಞಾನಿಗಳು, ಪ್ರಾಧ್ಯಾಪಕರು, ಪಿಎಚ್.ಡಿ. ಮಾಡುತ್ತಿರುವವರು, ಪಿಡಿಎಫ್ ಸಂಶೋಧನಾರ್ಥಿಗಳಿಗೆ ವಿವಿಧ ಆಧುನಿಕ ವೈಜ್ಞಾನಿಕ ಉಪಕರಣಗಳ ಕುರಿತು ತರಬೇತಿ ನೀಡುವುದು ಇದರ ಉದ್ದೇಶವಾಗಿದೆ.

ಕಾರ್ಯಕ್ರಮದ ಉದ್ಘಾಟನೆಯಲ್ಲಿ ಎಂಐಟಿ ನಿರ್ದೇಶಕ ಕೆ. ಡಾ| ಅನಿಲ್ ರಾಣಿ ಅಧ್ಯಕ್ಷತೆ ವಹಿಸಲಿದ್ದಾರೆ. ಶಿವಾಜಿ ವಿ.ವಿ.ಯು ಪ್ರೊ| ಆರ್.ಜಿ. ಸೋಂಕವಾಡೆ, ಮಾಹೆ ವಿ.ವಿ. ಮೌಲ್ಯಮಾಪನ ಕುಲಸಚಿವ ಡಾ| ವಿನೋದ್ ಥಾಮಸ್ ಮೊದಲಾದವರು ಭಾಗವಹಿಸಲಿದ್ದಾರೆ. ಕರ್ನಾಟಕ, ಮಹಾರಾಷ್ಟ್ರ ಕೇರಳ, ತಮಿಳುನಾಡು, ಅಸ್ಸಾಂ, ಆಂಧ್ರ ಪ್ರದೇಶ ಸಹಿತ ದೇಶದ ವಿವಿಧ ಭಾಗಗಳಿಂದ ಸಂಶೋಧನಾರ್ಥಿಗಳು ಈ ತರಬೇತಿಯಲ್ಲಿ ಪಾಲ್ಗೊಳ್ಳಲಿದ್ದಾರೆ. ಪ್ರೊ| ಕೆ. ಮೋಹನ್ ರಾವ್, ಪ್ರೊ| ಸುಮಾ ಎ. ರಾವ್, ಸಂಚಾಲಕರಾಗಿ ಹಾಗೂ ಡಾ| ಇಸ್ಮಾಯಿಲ್, ಡಾ| ಗುರುಮೂರ್ತಿ ಎಸ್.ಸಿ., ಡಾ| ಸುಧಾಕರ್ ವೈ. ಎನ್. ಕಾರ್ಯಕ್ರಮ ಸಂಯೋಜಿಸಲಿದ್ದಾರೆ ಎಂದು ಪ್ರಕಟನೆ ತಿಳಿಸಿದೆ.

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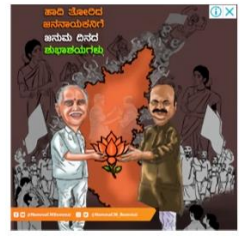
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Sat, Feb 25

Udupi: Synergistic Training programme held at Manipal Institute of Technology

Fri, Jan 13 2023 10:17:52 PM



Media Release

Udupi, Jan 13: Seven days Synergistic Training programme Utilizing the Scientific and Technological Infrastructure (STUTI) was successfully conducted by Manipal Institute of Technology (MIT), Manipal Academy of Higher Education (MAHE), Manipal, Karnataka from January 5 to 11. The training programme was organized by Departments of Physics and Chemistry, MIT, Manipal in joint

collaboration with Shivaji University, Kolhapur, Maharashtra. This prestigious event was sponsored by the Department of Science and Technology (DST), Ministry of Science and Technology, Government of India, New Delhi. The STUTI Scheme is intended to build 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.

The training programme was inaugurated on January 5 by Prof R G Sonkawade, PMU coordinator, STUTI Programme, Shivaji University, Kolhapur, Maharashtra accompanied by Dr Vinod V Thomas, registrar evaluation, Manipal Academy of Higher Education, Manipal, Cdr (Dr) Anil Rana, director, MIT, Manipal, conveners of STUTI programme Prof Mohan Rao K, Prof Suma A Rao, coordinators Dr Ismayil, Dr Gurumurthy S C and Sudhakar Y N. Participants from Maharashtra, Andra Pradesh, Kerala, Karnataka, Assam and Tamil Nadu attended this national level training programme.



In this seven days long training programme, total 14 plenary lectures were delivered on the Instrumentation and Practical Aspects of various scientific instruments such as XRD, SEM, NMR, AFM, LIBS, FTIR, AAS etc. by different resource persons from academia and industry. During the lab sessions participants undergone hands-on training on 24 research grade Instruments. The valedictory programme of the STUTI was held at Sir M V Seminar Hall, MIT, Manipal on January 11. Dr Ashok Rao, associate director (R&C), MIT, Manipal was the chief guest for the programme. Dr Somashekara Bhat, joint director, MIT, Manipal presided over the function.

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