



ONE WEEK TRAINING PROGRAM ON R&D EQUIPMENT

Material Processing & Advanced Functional Material Characterization Techniques

(Atmanirbhar Bharat Abhiyan)

Under

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

25th to 31st July 2022

Venue: School of Pharmacy

Organized By



Swami Ramanand Teerth Marathwada
University, Nanded-431606 (M.S.) India

Dr. Rajaram S. Mane

Director, Innovation, Incubation & Linkages.
S R T M University, Nanded

About Swami Ramanand Teerth Marathwada University:

Swami Ramanand Teerth Marathwada University, Nanded, established on September 17, 1994, caters to the southern part of the Marathwada region of Maharashtra covering four districts namely, Nanded, Latur, Parbhani and Hingoli. University has 14 Schools on campus, 4 schools at sub-campus, Latur and a sub-campus at Parbhani; a constituent college New Model Degree College at Hingoli and academic and research centres like Dr. Babasaheb Ambedkar Chair and Study Centre, Shri Guru Govind Singhji Adhyasan Sankul and Research Centre, Women's Study Centre at the main campus and Late Uttamrao Rathod Tribal Development and Research Centre at Kinwat. University has 300 plus affiliated colleges under its jurisdiction offering 146 programmes with student strength of 1.63 lakhs and 4000 plus students through distance education mode offering programs in science and technology, humanities, commerce and management and interdisciplinary studies. University hosts more than 70 foreign students across five countries. University received financial assistance from RUSA, DST, UGC, etc. for development of academic infrastructure amenities, research and extension activities. Teachers have invented, patented and commercialized many ideas. Teachers have got research projects worth Rs. 12.5 crores, whose academic and social value is remarkable. Teachers and students have many publications in peer reviewed journals to their credit and received recognition at the national and international level.

University has a Centre of Excellence in Seismology, advanced research instrumentation facilities, collaboration with Inter-University Centre for Astronomy and Astrophysics and MoUs with national and international institutions.

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 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, 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-SAPI & 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 (TEM, HRTEM, and AFM), Compositional Characterization Technique (ICP-OES, GCMS-MS, and XPS), Structural Characterization Technique (XRD, Raman, FTIR, Particle Size Analyzer with Zeta Potential, and TGA-DTA-DSC) and Antenna Testing & Microwave Application (VNA) 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 and its analysis.
- The participants get acquainted with the sophisticated instruments and characterization tools to design and implement for appropriate strategies for research work.

Eligibility:

- Person of Indian origin.
- Minimum qualification should be post-graduate (Science/B. Tech.)
- Professor/Scientist/Post-doc fellows/Ph.D. fellows/Industry persons who are actively involved in research and development (R & D).
- Not more than three people from one institute

Registration Procedure:

- Interested candidates have to fill the online form (link given below) on or before 20/07/2022.
- Candidates will be selected according to eligibility and available seats. The confirmation of selection will be communicated to the selected candidates on 22/07/2022 by email.

General Information:

- Registration Kit, Course material and Certificate of participation will be provided to the participants.
- Local Hospitality (accommodation & Meal) will be provided. The train fare (as per actuals) by shortest route will be reimbursed to the selected outstation participants. Participants are encourage to bring their samples if any, for hands on analysis during the program.



President
Dr. Udhav V. Bhosle
Hon'ble. Vice-Chancellor,
S R T M University, Nanded



Chief Guest
Dr. D. K. Sinha
Director, Atomic Minerals
Directorate, Hyd, India



Patron
Dr. Jogenrashing Bisen
Hon'ble. Pro-Vice-Chancellor,
S R T M University, Nanded



Guest of Honor
Dr. Rajendra Sonkawade
Department of Physics,
Shivaji University , Kolhapur



Registrar
Dr. Sarjerao Shinde
S R T M University, Nanded



Coordinator
Dr. Rajaram S. Mane
Director, IIL
SRTM University, Nanded

Expert Talks



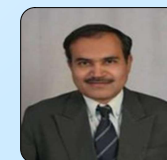
Mr. Mahesh P. Abegaonkar
IIT,
Delhi



Dr. Uday S. Annature,
Director, ICT,
Jalna



Dr. Mamta Joshi
Tata Institute of Fundamental
Research (TIFR)
Mumbai



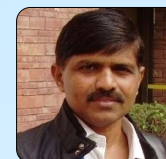
Dr. Ajay V. Deshmukh
Director, CIM
Pune



Dr. Ravi Chandra Gundakaram
Head, CMCT,
Hyderabad



Dr. Pankaj Poddar
CL,
Pune



Dr. Satish G. Kulkarni
Govt. Institute of Science,
Aurangabad



Mr. Mandar V. Deshmukh,
CSIR,
Hyderabad



“Synergistic Training program Utilizing the Scientific and Technological Infrastructure”

Supported by

Department of Science and Technology

Organized by

Swami Ramanand Teerth Marathwada University

In collaboration with

Shivaji University, Kolhapur, Maharashtra

INAUGURAL FUNCTION

Opening Remark

Dr. Rajaram S. Mane

Chief Guest

Dr. D. K. Sinha, Director, AMD, HYD

Guest of Honor

Dr. Rajendra Sonkawade

President

Dr. Udhav Bhosle

Vote of Thanks

Dr. A. V. Sarode

Day 1:	Date: 25/07/2022
10:00	<i>Arrival of Guests on Dais</i>
10:01	<i>Welcome of Guest</i>
10:03	<i>Lightning of lamp</i>
10:05	<i>Felicitation of Guest</i>
10:10	<i>Opening remark (Dr. Mane) in accordance with STUTI</i>
10:20	<i>Dr. Rajendra Sonkawade, Guest of Honor</i>
10:35	<i>Dr. D. K. Singha, Chief Guest</i>
10:50	<i>Dr. Udhav Bhosle, Presidential address</i>
10:55	<i>Dr. A. V. Sarode, Vote of thanks</i>
11:00	<i>Press Meet (if possible)</i>
11:00 to 11:30	<i>Tea Break</i>
11:30 to 13:30	Characterization for the Materials Scientist -- an Overview <i>Dr. Ravi Chandra Gundakaram, ARCI, HYD</i>
13:30to 14:30	<i>Lunch Break</i>
14:30 to 16:30	<i>---cont.---Dr. Ravi Chandra Gundakaram, ARCI, HYD</i>
16:30 to 16:45	<i>Tea Break</i>
16:45 to 18:00	<i>LCMS analysis and practical demo Prof. Shailesh Wadher</i>
20:00 to 21:30	<i>Dinner</i>

Day 2:		Date: 26/07/2022
10:00 to 12:00	Surface Characterisation of Materials Using XPS Involving Operational Parameters Dr. Rajendra Sonkawade	
12:00 to 12:15	Tea Break	
12:15 to 13:45	---cont---	
13:45 to 14:45	Lunch Break	
14:45 to 16:45	Magnetic Resonance Imaging (MRI): From Usability Perspective Dr. Ajay Deshmukh, Director, CIM, Pune	
16:45 to 17:00	Tea Break	
17:00 to 18:00	MRI operation training at Dr. Shankarao Chavan Gov. Medical College, Nanded	
20:00 to 21:30	Dinner	
Day 3:		Date: 27/07/2022
10:00 to 12:00	Morphological and Structural Characterization using Sophisticated Instruments and Sophisticated Instruments at SAIF-DST-CFC center, Shivaji University, Kolhapur Dr. Rajendra Sonkawade	
12:00 to 12:15	Tea Break	
12:15 to 13:45	----cont.----	
13:45 to 14:45	Lunch Break	
14:45 to 16:45	NMR: A Versatile Tool Dr. Mamata Joshi, TIFR, Mumbai	
16:45 to 17:00	Tea Break	
17:00 to 18:00	Dr. Manoj Naik, TIFR, NMR, Hands on Training	

20:00 to 21:30	Dinner
Day 4:	Date: 28/07/2022
10:00 to 12:00	Cold Plasma: An Emerging Non-Thermal Process Dr. U. S. Annapure, Director, ICT, Jalna
12:00 to 12:15	Tea Break
12:15 to 13:45	---cont----
13:45 to 14:45	Lunch Break
14:45 to 16:45	Polymer chemistry: Introduction and characterizations Dr. Parakash Wadgaonkar, NCL
16:45 to 17:00	Tea Break
17:00 to 18:00	-----cont.-----
20:00 to 21:30	Dinner
Day 5:	Date: 29/07/2022:
10:00 to 12:00	Advances in sensor technology Dr. M. D. Shirsat
12:00 to 12:15	Tea Break
12:15 to 13:45	----cont.-----
13:45 to 14:45	Lunch Break
14:45 to 16:45	An Introduction to RF/Microwave Measurements. Dr. Mahesh Abegaonkar, IIT, Delhi
16:45 to 17:00	Tea Break
17:00 to 18:00	Antenna Measurements ----cont.-----

20:00 to 21:30	Dinner
Day 6: Date: 30/07/2022	
10:00 to 12:00	Strength and limitations of FTIR spectroscopy in materials physics, Dr. Pankaj Poddar, NCL, Pune
12:00 to 12:15	Tea Break
12:15 to 13:45	Raman Spectroscopy: Operation, data analysis and applications Dr. S. D. Sartale, SPPU, Pune
13:45 to 14:45	Lunch Break
14:45 to 16:15	Insights into protein choreography by solution NMR Dr. Mandar Deshmukh, CSIR, HYD
16:15 to 16:30	Tea Break
16:30 to 20:00	Field Trip & Excursion
20:00 to 21:30	Dinner

Day 7: Date: 31/07/2022	
10:00 to 11:30	Surface Characterization by using X-Ray diffraction Dr. B. Sreedhar, IICT, HYD
11:30 to 11:45	Tea Break
11:45 to 13:45	----- cont.-----
13:45 to 14:45	Lunch Break
14:45 to 16:45	Biotechnology Dr. Satish G. Kulkarni, Govt. Institute of Science, Aurangabad
16:45 to 17:00	Tea Break
17:00 to 18:00	Valedictory Function



“Synergistic Training program Utilizing the Scientific and Technological Infrastructure”

Supported by

Department of Science and Technology

Organized by

Swami Ramanand Teerth Marathwada University

In collaboration with

Shivaji University, Kolhapur, Maharashtra

VALEDICTORY FUNCTION

Opening Remark

Dr. S. J. Wadher

Summary of Event

Dr. Krishna Chaitanya

Chief Guest

Dr. P. S. Patil, Pro-Vice Chancellor, Shivaji University, Kolhapur

Guest of Honor

Dr. Rajendra Sonkawade

President

Dr. Udhav Bhosle

Vote of Thanks

Dr. Rajaram S. Mane

Day 7:	Date:	Time:
17:00	<i>Arrival of Guests on Dais</i>	
17:01	<i>Dr. A. V. Sarode, Welcome of Guest</i>	
17:05	<i>Felicitation of Guest</i>	
17:10	<i>Dr. S. J. Wadher, Opening remark</i>	
17:15	<i>Dr. Krishna Chaitanya, Summary of Program</i>	
17:25	<i>Dr. Rajendra Sonkawade, Guest of Honor</i>	
17:35	<i>Dr. P. S. Patil, Pro-vice chancellor, Shivaji University, Kolhapur Chief Guest</i>	
17:45	<i>Dr. Udhav Bhosle, Presidential address</i>	
17:55	<i>Dr. Rajaram S. Mane, Vote of thanks</i>	
17:58	<i>Vande Mataram</i>	

Guests details

Sr. No.	Name	Arrival date and place	Departure date and place	Ph. No.
1.	Dr. Rajendra Sonkawade	24th July 2022 car		91 97630 41193
2.	DR. Pradeepkumar	25 th July 2022 TDU-PBN 17663 train arriving 0455hrs on 25/07/2022	25 th July 2022, SL-MAS 16004 at 1930hrs	9048343083
3.	Dr. Mamta Joshi (mr. And ms)	26th July 2022, Guest house Pick up from Pusad 7.20 AM 24 July by Rajya Rani express (two people for pusad)	27th July 2022, Rajaran 10 pm railway station	9869250581
4.	Dr. Manoj Naik	'27/07/2022 at 8.50 am station through Devgiri	27th July 2022, Rajaran 10 pm railway station	91 98692 72741
5.	Dr. Ajay Deshmukh	26th Morning Station	26/27th night station	7447474652
6.	Dr. Pankaj Poddar (mr and ms)	30 july at 8.48 am station	31st July 2022, 18.20 station	9823563766
7.	Dr. RaviChandra Gundakaram	25th morning at 4.55 am	25th July 2022 at 6.10 pm	94901 19636
8.	Dr. S. D. Sartale	Station 30 Juky 2022 10.20 am	Station 31st July 2022, 18.20	9763973766
9.	Dr. Mandar Deshmukh	car	car	94904 33502
10.	Dr. Mahesh P. Abegaonkar, IIT delhi	28th July 2022, 19.55 (7.55pm) A'bad air port	31 july 2022 17.15 from A'bad airport	91 98910 79034
11.	Dr. Paraksh wadgaonkar	car	car	

12.	Dr. Sreedhar Bojja, HYD	31st July 2022, 30-Jul-2022 20:05	31st July 202231-Jul-2022 22:50	9849725213
13.	Dr. S. D. Sartale	30th July 2022 10.20 at railway station	31st July 2022	
14.	Prof. Satish G. Kulkarni	31st July 2022	31st July 2022	98819 73265

Other University List

Sr. No.	Name	Email ID	Contact No	University Name	Gender
01.	Mr. Abhishek Amar Kulkarni		8459100889	Shivaji University Kolhapur	Male
02.	Mr. Abigail Abigail Fernandes	fernandes.abigail@stu	7507728301	Amity University,	Male
03.	Mr. Alok Yadav	Alok18387@gmail.com	8707614053	Dr. Baba Sahab University Lakhnow.U.P	Male
04.	Mr. Amey Sunil Mahadik	Ameymahadik134@gmail.com	9850236694	Savitribai Puhle, Pune	Male
05.	Mr. Aniket Dnyeshwar Bokhare	Aniketbokhare13696@gmail.com	8087917207	Sant Gadge Baba University, Amaravati	Male
06.	Miss. Ankita Pardip salunkhe	Aniktasalunkhe2609@gmail.com	8080241688	Shivaji University, Kolhapur	Female
07.	Mr. Ashish Kumar	Ashishshekhar1920@gmail.com	7909061939	Dr. Baba Sahab University Lakhnow.U.P	Male
08.	Mr. Avinash Ashok Surwase	Surwasdada09@gmail.com	8007628017	Rayat Institute of Re	Male
09.	Mr. Dattatraya Kisan Pawar	Dkpawar2010@gmail.com	9822584064	SIES College, Mumbai	Male
10.	Miss. Deblina Biswas	deblinabi@gmail.com	8085525794	Shoolini University, Solan, Himachal Pradesh	Female
11.	Mr. Dhanraj Nageshwar Aepurwar	3dna4u@gmail.com	9637099976	Dr. BAMU, Aurangabad	Male
12.	Mr. Ganesh Shrirang Satarkar	Ganeshnale0@gmail.com	9422422932	Shivaji University, Kolhapur	Male
13.	Mr. Hanmant Ramchandra Somthane	Kalvatitakmoge69@gmail.com	9158047601	Dr. BAMU, Aurangabad	Male
14.	Miss. Kalavati Vilas Takmoge	Sawanatkalpesh89@gmail.com	9175718532	P.A.H.S.University, Solapur	Female
15.	Kalpesh Chatur Sawant	Waghkalpesh980@gmail.com	8888528449	Savitribai Phule University, Pune	Male
16.	Kalpesh Ramesh Wagh	lsonawane511@gmail.com	9623082086	Ferguson College, Pune	Male
17.	Miss. Laxmi Dilip Sonawane	bmanishabora@gmail.com	9049861793	Savitribai Phule University, Pune	Female
18.	Miss. Manisha Atul Bora	Manoharlad137@gmail.com	9823955116	Savitribai Phule University, Pune	Female
19.	Mr. Manohar Shivaji Lad	Mansiingole1999@gmail.com	9156010980	D Y Patil Education Kolhapur	Male
20.	Miss. Mansi Adinath Ingole	chaman_mce@rediffmail.com	9834212734	Sir Parshuram Bhau College, Pune	Female
21.	Mohd Chaman	nehamalpure94@gmail.com	8755648182	Gurugram University, Gurugram Haryana	Male
22.	Miss. Neha Nilesh Malpure	Jadhavnehap2019@gmail.com	9096980202	K.B.C.N.M University Jalgaon	Female
23.	Miss. Neha Premsignh Jadhav	Nehagaikwad633@gmail.com	9112010282	Sant Gadge Baba University, Amravati	Female
24.	Miss. Neha Krishna Gaikwad	parsh33@gmail.com	7499422205	Shivaji University, Kolhapur	Female
25.	Mr. Paresh Suresh Gaikar	Pingle23@gmail.com	8976487776	University of Mumbai	Male
26.	Mr. Pramod Uttamrao Ingle	rjdeokate@gmail.com	7741846876	Sant Gadge Baba University, Amravati	Male
27.	Mr. Ramesh Jivram Deokate	Adla.ravi@gmail.com	9503287701	Savitribai Phule University, Pune	Male
28.	Mr. Ravindra Adla	patilsagaranandrao@gmail.com	9949286626	Osmania University, Hyderabad	Male
29.	Mr. Sagar Suresh Patil	84sanjaygaikwad@gmail.com	9403387327	K.B.C.N.M University Jalgaon	Male
30.	Mr. Sagar Anandrao Patil	sitawarshrinivas@gmail.com	9766749644	D Y Patil Education Kolhapur	Male
31.	Mr. Sanjay Laxmanrao Gaikwad	ssdongarge@gmail.com	9970821304	University of Mumbai	Male
32.	Mr. Shrinivas Babarao Sitawar	swethasinganan1966@gmail.com	7378545887	Dr. BAMU, Aurangabad	Male
33.	Miss. Shruti Sidram Dongarge	Snehal3.14@gmail.com	9370947261	National Institute of Technology Karnataka	Female
34.	Mr. Singanan Malairajan	Stiwari.tiwari325@gmail.com	9941317661	Presidency College (Autonomous), Chennai	Male
35.	Miss. Snehal Sampatrao Shinde	Swarupray2013@gmail.com	7722077754	Shivaji University, Kolhapur	Female
36.	Miss. Sonal Tiwari	Tanveerahamd58@gmail.com	9309321089	University of Mysore	Female
37.	Mr. Swarup Ray	madnure@rediffmail.com	9046546632	Shoolini University, Solan, Himachal Pradesh	Male
38.	Mr. Mr. Tanveer Ahamd	vishaljadhav16jun@gmail.com	8126943627	Aligarh Muslim University, Aligarh	Male
39.	Mr. Vikrant Vitthalrao Madnure	meghalidevi16@gmail.com	9823384450	Nagpur University, Nagpur	Male
40.	Mr. Vishal Anil Jadhav	vishaljadhav16jun@gmail.com	8888565788	P.A.H.S.University, Solapur	Male
41.	Mr. Ankush	meghalidevi16@gmail.com	7206791405	Kurukshetra University, Haryana	Male
42.	Miss. Meghali Devi	chem.bishal@gmail.com	9101651369	National Institute of Technology, Silchar, Assam	Female
43.	Mr. Bishal Das		8473086878	National Institute of Technology, Silchar, Assam	Male

कुशल मनुष्यबळाची गरज

प्रा. डॉ. सोनकवडे; 'स्तुती' योजनेंतर्गत कार्यशाळा

सकाळ वृत्तसेवा

कोल्हापूर, ता. ३० : देशातील ६६ टक्के लोकसंख्या ही ३५ वर्षांपेक्षा कमी वयाची आहे, देशाच्या भविष्यातील विकासात त्यांचे योगदान महत्त्वाचे असणार आहे. यासाठी कुशल आणि प्रशिक्षित मनुष्यबळ मुबलक असणे गरजेचे असून त्यासाठी 'स्तुती' सारख्या योजना महत्त्वपूर्ण आहेत, असे प्रतिपादन शिवाजी विद्यापीठाच्या सैफ केंद्राचे प्रमुख प्रा. डॉ. आर. जी. सोनकवडे यांनी केले. विज्ञान व तंत्रज्ञान मंत्रालय (DST), शिवाजी विद्यापीठ, आणि स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ यांच्या संयुक्त विद्यमाने स्तुती (सिनरजिस्टिक ट्रेनिंग प्रोग्रॅम अँड टेक्नॉलॉजिकल इन्फ्रास्ट्रक्चर) योजनेंतर्गत आयोजित कार्यशाळेच्या उद्घाटन कार्यक्रमात ते बोलत होते. अध्यक्षस्थानी हैदराबाद येथील ऑटोमिक मिनरल्स डायरेक्टोरेटचे ज्येष्ठ शास्त्रज्ञ डॉ. प्रदीपकुमार होते.

यावेळी डॉ. सोनकवडे म्हणाले, 'जगात सर्वाधिक तरुण लोकसंख्या



कोल्हापूर : प्रा. डॉ. राजेंद्र सोनकवडे यांचा सत्कार करताना प्रा. जोगेंद्रसिंग बिसेन. सोबत प्रा. उद्धव भोसले, प्रा. डॉ. प्रदीपकुमार, प्रा. वाघमारे.

भारतात आहे, एकूण लोकसंख्येपैकी ६६ टक्के लोकसंख्या ३५ वर्षांपेक्षा कमी वयाची आहे. देशाच्या भविष्यातील तांत्रिक विकासाचा विचार करता हा प्रशिक्षण कार्यक्रम महत्त्वाचा आहे आणि विज्ञान आणि तंत्रज्ञान विभागाला विशेषतः लातूर, हिंगोली आणि परभणी जिल्ह्यांच्या अंतर्गत भागाशी संपर्क साधायचा होता. त्यामुळे ठिकाणी प्रशिक्षण कार्यक्रमाचे आयोजन केले. त्याला चांगला प्रतिसाद मिळाला.

औद्योगिक क्षेत्राचा विकास तेव्हाच होऊ शकेल. ज्यावेळी देशात कुशल आणि प्रशिक्षित मनुष्यबळ मुबलक प्रमाणात उपलब्ध असेल. यासाठीच 'स्तुती' सारख्या योजना

महत्त्वाच्या आहेत.

अध्यक्षीय भाषणात डॉ. प्रदीपकुमार यांनी स्तुती उपक्रमाचे कौतुक केले. कुशल मनुष्यबळाची गरज लक्षात घेऊन हे योग्य पाऊल उचलले असल्याचे त्यांनी नमूद केले. कार्यक्रमात विद्यापीठातील आणि संलग्न महाविद्यालयातील सुमारे १५० संशोधक, शिक्षक, विद्यार्थी उपस्थित होते.

यावेळी कुलगुरू डॉ. उद्धव भोसले, प्र-कुलगुरू डॉ. जोगेंद्रसिंग बिसेन, कुलसचिव डॉ. सजेंराव शिंदे, विज्ञान व तंत्रज्ञानविभागाचे अधिष्ठाता डॉ. एल. एम. वाघमारे, समन्वयक राजाराम माने, उपकुलसचिव डॉ. रवी सरोदे यांची प्रमुख उपस्थिती होती.