



INVITATION



WORKSHOP ON INTERPRETATION OF INSTRUMENTAL METHODS (WIIM-2020)

(UV-VIS, FTIR, BET Surface Area, Particle Size Distribution, Zeta Potential, Contact Angle, XRF and FESEM)

to be held on 06th - 10th January 2020

organized by

DEPARTMENT OF CHEMISTRY & INTERNATIONAL RESEARCH CENTRE
SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University)

in association with



CSIR-NATIONAL METALLURGICAL LABORATORY MADRAS CENTRE
CSIR Madras Complex, Taramani
Chennai – 600 113

sponsored by



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WHO CAN BENEFIT

Scientists, Faculty Members, Postdoctoral Fellow, Research Scholars, Students from Science and Engineering branches (Minerals / Metallurgy / Chemical/ Civil / Polymer / Materials Science / Organic / Analytical / Industrial / Physical / Surface Chemistry), Quality Control, Research and Development and wishing to improve their professional skills and handling the analytical instruments and interpretation of their results.

OUTLINE OF THE WORKSHOP

- Theory related to instrumental methods of analysis
- UV-Visible and FTIR demo experiments and interpretation of results
- Interpretation of BET- Adsorption isotherms, Pore Size distribution curves
- Interpretation of Particle Size distribution - Zeta Potential measurements
- Interpretation of Contact angle and Surface energy measurement
- XRF and its significance
- Electron Microscopy and its applications

ABOUT SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY

Sathyabama Institute of Science and Technology is a pioneer in Engineering Education and was established with the aim of providing quality higher education in the areas of Engineering, Science and Technology on par with International standards. It persistently seeks and adopts innovative methods to improve the quality of higher education. The University has been accredited by National Assessment and Accreditation Council (NAAC) and ISO 9001: 2008 Certification for Professional Quality Management Practices. The Institute offers 31 undergraduate programmes and 27 postgraduate programmes in diverse fields of education. State of the art Library, International Research Centre and an exclusive Research & Development Centre provide rich experience of learning and thereby fulfilling students' thirst for success. The University has undertaken various Sponsored and collaborative research and development projects funded by national organizations such as Indian Space Research Organization (ISRO), Department of Science and Technology (DST), Indira Gandhi Centre for Atomic Research (IGCAR), Defence Research and Development Organization (DRDO), Department of Bio-Technology (DBT), Ministry of Environment and Forests (MoEF), Board of Research in Nuclear Sciences (BRNS) etc. The university holds great promise to expand the applications of space technology, benefiting the common man and enriching the quality of life. A step towards achieving this, the university is successfully conducting non formal education programmes through 18 Village Resources Centre (VRCs) all over the state of Tamil Nadu. The research activity is progressive and proactive with 265 funded projects worth of around Rs.63.5 Crores, which has been sanctioned by various national organizations.

ABOUT CSIR-NATIONAL METALLURGICAL LABORATORY

National Metallurgical Laboratory (CSIR-NML) is a premier laboratory within the ambit of Council of Scientific and Industrial Research (CSIR), New Delhi, a statutory body under Ministry of Science and Technology, Government of India. CSIR National Metallurgical Laboratory Madras Centre (NML- MC) an extension Centre of CSIR NML, over the years has undertaken several R&D projects in the areas of mineral beneficiation, micro-structural characterization and failure analysis of various industrial components. The Centre has developed flow sheets for the beneficiation of ferrous and non-ferrous, industrial minerals which include limestone, feldspar, barites etc. In recent years, the Centre has made significant contributions to the development of column flotation technology for Indian industry.

Commercial flotation columns were commissioned for the beneficiation of sillimanite and barite. Over the years the centre has developed expertise and state-of-the-art facilities to carry out material characterization and metallurgical failure investigations for various engineering industries like power and automobile sector. The centre is actively working towards developing value added products from mineral/mine wastes and also provides services for characterization of tiles, paver blocks and natural building stones.

Please visit : <http://www.sathyabama.ac.in/> and <https://www.csircmc.res.in/nml>

Chief Patrons

1. Dr. Mariazeena Johnson (Chancellor) and Dr. Marie Johnson (President) Sathyabama Institute of Science and Technology, Chennai
2. Dr. I. Chatteraj, CSIR-NML (Director), Jamshedpur
3. Dr. T. V. Vijaya Kumar, CSIR-NML (Scientist-In-Charge), Chennai
4. Dr. S. Sundar Manoharan, (Vice-Chancellor) Sathyabama Institute of Science and Technology, Chennai
5. Dr. T. Sasipraba, (Provice-Chancellor) Sathyabama Institute of Science and Technology, Chennai

List of Advisory Committee

1. Dr. Goutam De, Institute of Nano Science & Technology Habitat Centre, Mohali
2. Dr. D. K. Sharma, Kunash Instruments Pvt. Ltd., Mumbai
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17. Dr. V. Jayathirtha Rao, CSIR-IICT, Hyderabad
18. Prof. J. Sreeramulu, SK University, Anantapur

Registration Fee Details:

Category	Registration Fee
PG Students	2000/-
Research Scholars – JRF / SRF / RA / Project Assistants / Ph.D Students)	3000/-
Faculty Members/Scientists/Post Doc.	3000/-
Participants from Industry	4000/-

Intimation to selected Participants: Selected participants were intimated through E-mail or SMS. Tentative programme schedule will be communicated to the selected participants only.

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