

REGISTRATION FORM

TWO DAY FACULTY DEVELOPMENT PROGRAMME
ON

AFM & FTIR BASED MATERIAL TESTING FOR RESEARCH

17th & 18th December 2019

Full Name :
Department :
Designation :
Institution Name :
Address :

Mobile Number :
E-Mail :
DD Amount :
Bank Name : Branch :
DD no : DD Drawn Date:

Signature of the Participant

Signature of the Head of the Institution

Resource Persons

1. **Dr. T. N. Sairam**, Asso. Prof.,
HomiBhabha National Institute
Scientific Officer, 'G'
Materials Science Group
Indira Gandhi Centre for Atomic
Research, Kalpakkam - 603 102.
TamilNadu.
2. **Dr. R.N. Viswanath**,
Professor in Physics and
Ramanujan Fellow
Centre for Nanotechnology Research,
Department of Humanities and Sciences
Aarupadai Veedu Institute of Technology
Paiyanoor, Chennai - 603 104. TamilNadu.
3. **Dr. K. Sangamithra**, Asso. Prof.,
Department of Chemistry
Aarupadai Veedu Institute of Technology
Paiyanoor, Chennai - 603 104. TamilNadu.

Registration Details

Faculty Members - Rs. 500/-

Registration must be done through email
(avit.fdp2019@gmail.com) on or before 12.12.2019.

Food:
Working lunch will be provided on both the days.

Accommodation:
Accommodation will be provided in the campus
hostel on prior request.

Transport:
Free AVIT transport link to reach our campus
-(<https://www.avit.ac.in/infrastructure/transport.php>)

For queries kindly contact

Dr. J. Madhusudhanan (Biotech) - 79041 84979
Dr. R. Nagalakshmi (Chemistry) - 95662 57025
Dr. G. Suresh (Physics) - 99949 78260
Mr. V. Prabhakaran (Biomedical) - 98846 34252

AVIT

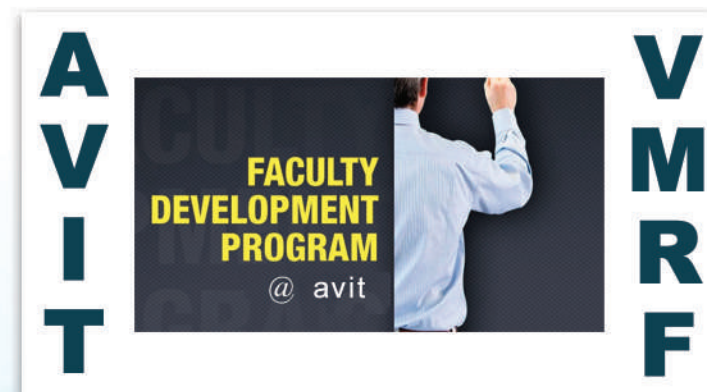
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY
VINAYAKA MISSION'S RESEARCH FOUNDATION
(Deemed to be University), Accredited by NAAC
(Declared Under Section 3 of UGC Act 1956)



TWO DAY FACULTY DEVELOPMENT PROGRAMME
ON

AFM & FTIR BASED MATERIAL TESTING FOR RESEARCH

17th & 18th December 2019



Organized by

Department of Science & Humanities,
Department of Biotechnology
&
Department of Biomedical Engineering



Accredited
by
NAAC



Approved
by
AICTE

www.avit.ac.in

About VMRF

Vinayaka Missions had its inception in the year 1981 with the establishment to the Thirumuruga Kirupananda Variyar Thavathiru Sundara Swamigal (TKVTSS) Medical Educational and Charitable Trust. Not far from then, in 1982, the Founder-Chairman, Dr. A Shanmugasundaram instituted the Vinayaka Mission's College of Pharmacy in Salem, the pioneer institution of Vinayaka Missions. In the year 2001 the "Deemed to be University" status was conferred on Vinayaka Missions by The Ministry of Human Resources Development, Government of India, with the recommendations of the UGC Under Section 3 of the UGC Act, 1956 as an acknowledgement of its excellence, satisfaction of the highest level of academic standards and best infrastructural facilities provided to achieve preeminence in education and by virtue of this recognition Vinayaka Missions transcended to becoming Vinayaka Missions Research Foundation (VMRF) as the 48th University in India.

About AVIT

Aarupadai Veedu Institute of Technology (AVIT) was established in the year 1998 as an affiliated institution under the University of Madras. Later it was affiliated to Anna University, Chennai. In 2004, the institution attained the status of university under the ambit of Vinayaka Mission's Research Foundation (VMRF) – Deemed to be University Salem under Section 3 of UGC act 1956. AVIT is approved by All India Council for Technical Education (AICTE) and Council of Architecture (COA), Govt of India. The institution is located on Rajiv Gandhi Salai (Old Mahabalipuram Road) in a sprawling 24.11-acre land with a built-up area of 5.65 Lakhs Sq.ft. The institution is committed to impart quality education to the students from different Socio-economic backgrounds. The institution offers under-graduate programmes in ten different disciplines including B.Arch and seven post-graduate programmes including Master of Business Administration (MBA) in Full-time (Regular) mode. The institute is also offering five undergraduate programmes and six post graduate programmes in Part-Time (Regular) mode.

Centre for Nanotechnology Research

Centre for Nanotechnology (CNR) was founded in January 2018 at Aarupadai Veedu Institute of Technology to accelerate R&D activities in various nano-engineering fields. Currently the research Centre CNR operates a state-of-the-art research program in the field of nanomaterials, nanoporous materials, nanocoatings and thin films supported by cutting edge facilities for materials synthesis and characterization.

About the FDP

The objective of this two day Faculty Development Programme (FDP) is to provide opportunity for the teaching faculties of various Engineering, Science colleges and Universities to upgrade their knowledge and enrich their skills in the field of Atomic Force Microscopy (AFM) and Fourier Transform Infrared spectroscopy (FTIR) for surface characterization and structural analysis of different kinds of materials used in Energy, Structural, Electrical, Mechanical, Biotechnology and Biomedical applications. These techniques provide valuable information about three-dimensional topography as well as physical properties and knowledge about various functional groups and chemical bonds present in the nanosized samples.

Skill based laboratory training will be given on both the days to all the participants by carrying out demonstration using these techniques followed by the tutorial sessions delivered by the experts. This FDP will bring together a multi-disciplinary group of teaching faculties on one platform for strengthening interdisciplinary academic and research prospects.

The topics to be discussed in the FDP:

- AFM Theory & Instrumentation, Scanning Modes, Contribution to Nanotechnology and demonstrations
- FTIR Theory & Instrumentation, Sample analysis process, Importance of Attenuated total reflection and demonstration



Advisory Committee

Dr. A. S. Ganesan
Honourable Chancellor,
Vinayaka Mission's Research Foundation

Dr. Anuradha Ganesan
Director,
Vinayaka Mission's Research Foundation

Dr.S.A.V.Satya Murty
Campus Director, AV Campus
Director (Engg & Tech Research), VMRF

Dr. K. L. Shunmuganathan
Principal,
Aarupadai Veedu Institute of Technology

Dr. S. P. Sangeetha
Vice Principal, Academics

Prof. P. Rajasekaran
Vice Principal, Admin.

Dr. D. Vijendra Babu
Vice Principal, Parttime

Conveners

Dr. G. Latha, Professor & Head, S & H
Dr. R. Devika, Professor & Head, Biotech
Dr. M. Ravindiran, Professor & Head, BME

Organizing Committee

Dr. B. Dhanalakshmi, Asso. Prof., Physics.
Dr. B. Prabasheela, Asso. Prof., Biotech.
Dr. A. Nirmala, Asst. Prof. (G-II), Biotech.
Dr. R. Balachandar, Asst. Prof. (G-II), Biotech.
Ms. M. Subathra, Asst. Prof., Biotech.
Ms. Santhoshini Arul Vallal, Asst. Prof., BME.
Ms. R. Sandhiya, Asst. Prof., BME.
Ms. S. Mythrehi, Asst. Prof., BME.
Ms. Farhana Ansoor, Asst. Prof., BME.
Mrs. N. Laxmi, Asst. Prof., BME.