

## TWO DAYS TRAINING PROGRAMME

ON

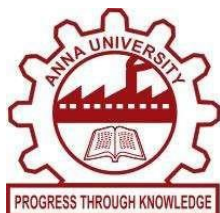
## ESSENTIALS OF OPTICAL AND SEM ANALYSIS (EOSA-2020)

31<sup>st</sup> Jan & 01<sup>nd</sup> Feb, 2020

### COORDINATORS

**Dr. V. Ponnusamy**

**Dr. R. Murugaraj**



### SPONSORED BY

**UGC XII Plan Scheme  
and  
Centre for Faculty Development  
Anna University, Chennai**

### ORGANIZED BY

**Division of  
Applied Sciences and Humanities,  
MIT Campus, Anna University  
Chennai**

## ORGANIZING COMMITTEE

**CHIEF PATRONS Dr. M.K. Surappa**

Vice Chancellor,  
Anna University, Chennai.

**PATRONS Dr. L. Karunamoorthy**

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**Dr. I. Arul Aram**

Addl. Director, CFD, AU.

**CO-CHAIRS Dr. V. Ponnusamy**

Coordinator,  
DASH, MIT Campus, AU.

**CO-ORDINATORS Dr. V. Ponnusamy**

**Dr. R. Murugaraj**  
DASH, MIT Campus, AU.

### VENUE

**Conference Hall  
RLHC, MIT Campus, Anna University.**

### IMPORTANT DATES

Last date for Submission : 28.01.2020

Intimation of selection : 29.01.2020

Confirmation by Participants :  
29.01.2020

## REGISTRATION FORM

Name:

Designation:

Qualification:

Email\_id:

Mobile No.:

DOB and Age:

Community:

Institution address:

Communication address:

### DECLARATION

I declare that the details furnished above are true to the best of my knowledge and belief and agree to abide by the rules and regulations governing the conduct of faculty development training program sponsored by UGC XII Plan Scheme and CFD, Anna University, Chennai.

Signature of Applicant

### SPONSORSHIP CERTIFICATE

Certified that Dr. /Prof. /Mr. /Ms \_\_\_\_\_ is a bonafide faculty member of our Engineering College. He/She is sponsored to attend this FDTP on "ESSENTIALS OF OPTICAL AND SEM ANALYSIS" (EOSA-2020) from 31st January to 1st February 2020.

Date:

Place:

Signature & Seal of the principal

## Anna University

Anna University was established on 4th September 1978. It offers higher education in Engineering, Technology and allied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained there from, it fosters cooperation between the academic and industrial communities.

## ORGANIZING INSTITUTION

The Madras Institute of Technology, started in the year 1949, is an integral part of the Anna University Chennai, and is an off-Campus which is situated adjacent to the Chromepet Railway Station and 6 km south of Chennai Airport.

## ABOUT THE DEPARTMENT

The Division of Applied Science and Humanities has four disciplines: Mathematics, Physics, Chemistry and English. Powered by enthusiastic and experienced faculty members, the Division has made rapid strides in fostering engineering education that blends scientifically designed doses of academics with co-and extracurricular activities guaranteed to promote the all-round development and growth of its students. The faculty members of the Division are highly committed towards R & D activities and guide many research scholars in the frontier areas of Science such as, XRD studies, crystal growth, luminescence, electronic bandstructure, nanomaterials, multiferroics, functional materials, thin films, environmental radio-activity, water analysis, corrosion studies, combinatorial representation theory, Ramsey theory, graph theory, DNA computing, etc., and consistently bring out very many high quality research publications in international refereed journals of high standards every year.

## ABOUT THE COURSE

This FDP programme aims mainly at imparting essential concepts and practical knowledge about the analysis of optical and SEM and the used in materials science and technology.

For favor of application of materials in various fields of engineering and technology, it is very important to carry out studies to characterize electrical, thermal, optical and magnetic properties of technologically important materials. In particular the characterization techniques adopted for the optical properties are FTIR, SEM, EDAX, UV-Visible, PL, Laser, etc. studies. The present FDP programme, therefore, focuses mainly on the expert lectures and practical training on the above mentioned research methodologies so that the participants gain adequate knowledge to carry out their R & D activities at advanced levels.

This FDTP is intended to address the recent trends in analysing the optical properties of materials at advanced level.

## Course content

- SEM & TEM Analysis
- Properties of Polymer & Composites Materials
- FTIR Analysis
- Photovoltaic Properties of Materials
- UV Visible Spectroscopy
- Fluorescence Spectroscopy
- Optical Band gap Properties of Materials (Theory)
- Hands on Training on Demonstration of SEM-Working and Image Capturing.
- Training on UV Visible working and spectral analysis.

## RESOURCE PERSONS

Experts from academia, research organizations and institutes.

## ELIGIBILITY

Faculty from Affiliated Engineering Colleges of Anna University.

## GUIDELINES

No fees for participants.

Session time - 09:00 AM to 4:45 PM

Total number of participants is strictly 30.

Eligible participants will be selected based on **first come first serve basis**.

### For Details Contact

The Coordinator(s),  
FDTP on ESSENTIALS OF OPTICAL AND SEM ANALYSIS (EOSA-2020),  
DASH, MIT Campus  
Anna University, Chromepet  
Chennai – 600 044.

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