

## School of Materials and Chemical Sciences

### STUTI Training Programme: Modern Spectroscopic, Thermal and Microscopic Techniques

#### FINAL REPORT

21<sup>ST</sup> SEPTEMBER TO 27<sup>TH</sup> SEPTEMBER 2022

#### Day 1:- 21/09/2022

At 9 am the program started with the registrations process of candidates and also distributions of stationary to the participants. Then the program started with the national song followed by inauguration by key guest honors. 11AM to 1 PM Theory session on UV Spectroscopy was taken up by Prof. P.K. Khanna Then from 2 to 4 PM Theory session on Contact Angle Analysis was taken up by Prof. K. Balasubramania and from 4 to 6 PM Theory session on Fluorescence Spectrophotometer and Particle size analyzer was taken up by Prof. P.K. Khanna

#### Day 2:- 22/09/2022

In the morning 9 to 11 AM Theory session on Chromatography was taken up by Dr. P.S. Kulkarni. Theory Session on electron Microscopy was taken up by Prof. B. Majumdar from 11 to 1 PM .In the afternoon session. Hands-on Training on UV Batch-A Hands-on Training Fluorescence BatchB was explained by P.K. Khanna. Hands-on Training on Fluorescence Batch-A/Hands-on Training UV Batch-B was explained by P.K. Khanna from 2 to 6 PM.

#### Day 3:- 23/09/2022

In the morning 9 to 11 AM Theory session on XRD was taken up by Dr. T M Bhawe & from 11 to 1 PM Theory session on MFM was taken up by Dr. S. S. Datar .Hands-on Training on Particle Size Analyser Batch-A/ Hands-on Training MFM Batch-B was explained by P.K. Khanna/Dr. S.S Datar. Hands-on Training on MFM Batch-A Hands-on Training Particle Size Analyser Batch-B was explained by P.K. Khanna/Dr. S.S Datar from 2 to 6 PM.

#### Day 4:- 24/09/2022

In the morning 9 to 1 PM Theory session on SEM was taken up by Dr. T U Patro. Theory session on IR spectroscopy was taken up by Dr. S. Banerjee from 11 to 1 PM .Hands-on Training on Ion Chromatograph Batch-A Hands-on Training on GAS Chromatograph Batch-B was explained by Dr. P.S. Kulkarni Hands-on Training on HPLC Batch-B Hands-on Training on GAS Chromatograph Batch- A explained by Dr. P.S. Kulkarni from 2 to 6 PM.

#### Day 5:- 25/09/2022

In the morning 9 to 11 AM Theory session on NMR was taken up by Dr. S. Banerjee and Theory session on Small Angle XRD was taken up by Dr. T U Patro from 11 to 1 PM. Hands-on Training on NMR Batch-B, Hands-on Training on Small Angle XRD Batch-A was explained by Dr. S. Banerjee/ Dr. T U Patro & Hands-on Training on NMR Batch-A, Hands-on Training on Small Angle XRD Batch-B was explained by Dr. S. Banerjee/ Dr. T U Patro from 2 to 6 PM.

**Day 6:- 26/09/2022**

In the morning 9 to 11 AM Theory session on DSC was taken up by Dr. S. Banerjee & from 11 to 1 PM Theory session on TGA-FTIR was taken up by Dr. C.J. Bhongale. In the afternoon Hands-on Training on SEM Batch-B Hands-on Training on IR Batch-A was explained by Dr. V. Hiwarkar/P.K. Khanna. Hands-on Training on SEM Batch-A Hands-on Training on IR Batch-B was explained by Dr. V. Hiwarkar/P.K. Khanna from 2 PM to 6 PM.

**Day 7:- 27/09/2022**

In the morning 9 to 11 AM Hands-on Training on TGA-FTIR Batch-A and Hands On Training on DSC Batch-B was explained by Dr. C.J. Bhongale/ Dr. S. Banerjee & from 11 to 1 PM Hands-on Training on TGA-FTIR Batch-B and Hands-on Training DSC Batch-A was explained by Dr. C.J. Bhongale/ Dr. S. Banerjee. Afternoon session from 2 to 4 PM Hands-on Training on Contact Angle Measurement Batch-A/Hands-on Training on Contact Angle Measurement Batch-B was explained by Prof. K. Balasubramanian. Valedictory & Feedback Session from 4 to 6 PM.