

Training program

BANNARI AMMAN INSTITUTE OF TECHNOLOGY, Sathyamangalam.

FINAL REPORT

22ND JUNE TO 28TH JUNE 2023

Day 1:- 22/06/2023

At 9 am the program has started with the registrations process of candidates and also distributions of stationary to the participants. Then program has been started with national song followed by inauguration by key guest honors. From 9 AM, to 12 PM, Theory Session on Nanomaterials and Energy Storage Devices was taken up by R T Rajendrakumar, Professor, Bharathiar University, Coimbatore. From 12 AM, to 1 PM, Theory Session on A facile synthesis of new nanostructured electroactive polymer camposites was taken up by Dr.P S Vijayanand Associate Professor BIT Sathy. In the afternoon session participants have divided into 4 groups. From 1 30 to 3 30 PM, Group-1 Hands-on session on Cyclic Voltammetry work station (CV) was explained by Dr S Arulmani, Group-2 Hands-on session on Scanning Electron Microscopy (FESEM) was explained by Mr D Dinesh, Mech, Group-3 Hands-on session on FT-IR Spectroscopy (FT-IR) was explained by Dr V Vijayakumar, Chemistry, Group-4 Hands-on session on Optoelectronic device fabrication was explained by Dr S Ashokan, Physics, and from 3 45 to 5 45 PM, Group-1 Hands on session on Ultraviolet Visible Spectroscopy (UV) was explained by Dr.Baskaran, Group-2 Hands on session on High/Fast performance Liquid Chromatography (HPLC/FPLC) was explained by Dr Kiruba Shanker, Group-3 Hands on session on Polarizing Optical Microscope (POM) was explained by Dr P S Prabu, Group-4 Hands on session on Differential Scanning Calorimeter (DSC) was explained by Dr V N Vijayakumar.

Day 2:- 23/06/2023

From 9 AM, to 12 PM, Theory Session on Challenges for the Design and Development of DSSC's (Device & FESEM) was taken up by Dr. T S Senthil Professor, ESEC, Erode. From 12 AM, to 1 PM, Theory Session on Supramolecular hydrogen bonded liquid crystals was taken up by Dr.N P S Prabu Assistant Professor BIT Sathy. In the afternoon session participants have divided into 4 groups. From 1 30 to 3 30 PM, Group-1 Hands on session on Spectro-Fluorometer (PL) was explained by Dr M Malathi, Group-2 Hands on session on Differential Scanning Calorimeter (DSC) was explained by Dr V N Vijayakumar. Group-3 Hands on session on Impedance Analyzer (IA) was explained by Dr P S Prabu, Group-4 Hands-on session on Scanning Electron Microscopy (FESEM) was explained by Mr D Dinesh, Mech, and from 3 45 to 5 45 PM, Group-1 Hands on session on FT-IR Spectroscopy (FT-IR) was explained by Dr V Vijayakumar, Chemistry, Group-2 Hands on session on Ultraviolet Visible Spectroscopy (UV) was explained by Dr.Baskaran, Group-3 Hands on session on Thermogravimetry Differential Thermal Analysis (TG/DTA) was explained by Mr Jayavel Karthik, Group-4 Hands on session on Polarizing Optical Microscope (POM) was explained by Dr P S Prabu. At the end of the day visited Murugar and Bannari Amman Kovil Trip.

Day 3:- 24/06/2023

From 9 AM, to 12 PM, Theory Session on Electrochemistry OneStop-Solution to Global issues (HPLC) was taken up by Dr. G Ganesh Senior Principal Scientist, CSIR- CECRI, Karaikudi. From 12 AM, to 1 PM, Theory Session on The Fascinating World of Liquid Crystals: Characterization Methods (DSC) was taken up by Dr. S Uma Devi, Professor, Alagappa University Karaikudi. In the afternoon session participants have divided into 4 groups. From 1 30 to 3 30 PM, Group-1 Hands on session on Impedance Analyzer (IA) was explained by Dr P S Prabu, Group-2 Hands on session on Thermogravimetry Differential Thermal Analysis (TG/DTA) was explained by Mr Jayavel Karthik, Group-3 Hands on session on Scanning Electron Microscopy (FESEM) was explained by Mr D Dinesh, Mech, Group-4 Hands on session on Spectro-Fluorometer (PL) was explained by Dr M Malathi and from 3 45 to 5 45 PM, Group-1 Hands-on session on Optoelectronic device fabrication was explained by Dr S Ashokan, Physics, Group-2 Hands on session on FT-IR Spectroscopy (FT-IR) was explained by Dr V Vijayakumar, Chemistry, Group-3 Hands-on session on Cyclic Voltammetry work station (CV) was explained by Dr S Arulmani, Group-4 Hands on session on Impedance Analyzer (IA) was explained by Dr P S Prabu.

Day 4:- 25/06/2023

From 9 AM, to 12 PM, Theory Session on Nanomaterials and Energy Storage and Biological applications (CV & FESEM) was taken up by Dr. I Vetha Professor, Anna University BIT Campus, Trichy. From 12 AM, to 1 PM, Theory Session on Double hydrogen ferroelectric liquid crystals was taken up by Dr. V N Vijayakumar Associate Professor HOD/Physics, BIT Sathy. In the afternoon session participants have divided into 4 groups. From 1 30 to 3 30 PM, Group-1 Hands on session on Differential Scanning Calorimeter (DSC) was explained by Dr V N Vijayakumar, Group-2 Hands on session on Polarizing Optical Microscope (POM) was explained by Dr P S Prabu, Group-3 Hands-on session on Optoelectronic device fabrication was explained by Dr S Ashokan, Physics, Group-2 Hands on session on Thermogravimetry Differential Thermal Analysis (TG/DTA) was explained by Mr Jayavel Karthik. and from 3 45 to 5 45 PM, Part-1 Technology business incubator making (TBI-BIT) was taken. At the end of the day visited Kodiveri Dam.

Day 5:- 26/06/2023

From 9 AM, to 12 PM, Theory Session on Spectroscopy analysis was taken up by Dr. M Srinivasulu Professor in Chemistry, Manipal Institute, Manipal. From 12 AM, to 1 PM, Theory Session on Evaluation of Structure Activity Relationship of Biomolecules; A Theoretical Approach was taken up by Dr. K Sadasivam, Professor, BIT Sathy. In the afternoon session participants have divided into 4 groups. From 1 30 to 3 30 PM, Group-1 Hands on session on Scanning Electron Microscopy (FESEM) was explained by Mr D Dinesh, Mech, Group-2 Hands on session on Cyclic Voltammetry work station (CV) was explained by Dr S Arulmani, Group-3 Hands on session on Density Functional Theory (DFT) was explained by Dr K Sadasivam, Physics, Group-4 Hands on session on FT-IR Spectroscopy (FT-IR) was explained by Dr V Vijayakumar, Chemistry and from 3 45 to 5 45 PM, Group-1 Hands on session on High/Fast performance Liquid Chromatography (HPLC/FPLC) was explained by Dr Kiruba Shanker, Group-2 Hands on session on Impedance Analyzer (IA) was explained by Dr P S Prabu. , Group-

3 Hands on session on Ultraviolet Visible Spectroscopy (UV) was explained by Dr.Baskaran, Group-4 Hands on session on Density Functional Theory (DFT) was explained by Dr K Sadasivam, Physics.

Day 6:- 27/06/2023

From 9 AM, to 12 PM, Theory Session on Nonlinear Optics & Real Time Applications was taken up by Dr R Bharathikannam Associate Professor SRMV CAS Coimbatore. From 12 AM, to 1 PM, Theory Session on Structural optical and ultrasonic characterization of Materials was taken up by Dr. Sakthipandi K, Professor, SRM University Chennai. In the afternoon session participants have divided into 4 groups. From 1 30 to 3 30 PM, Group-1 Hands on session on Polarizing Optical Microscope (POM) was explained by Dr P S Prabu, Group-2 Hands on session on Density Functional Theory (DFT) was explained by Dr K Sadasivam, Physics, Group-3 Hands on session on Spectro-Fluorometer (PL) was explained by Dr M Malathi, Group-4 Hands on session on Cyclic Voltammetry work station (CV) was explained by Dr S Arulmani, and from 3 45 to 5 45 PM, Group-1 Hands on session on Thermogravimetry Differential Thermal Analysis (TG/DTA) was explained by Mr Jayavel Karthik, Group-2 Hands-on session on Optoelectronic device fabrication was explained by Dr S Ashokan, Physics, Group-3 Hands on session on Polarizing Optical Microscope (POM) was explained by Dr P S Prabu, Group-4 Hands on session on Ultraviolet Visible Spectroscopy (UV) was explained by Dr.Baskaran,

Day 7:- 28/06/2023

From 9 AM, to 12 PM, Theory Session on Pharmaceutical and biological properties of ORGANIC Compounds (FTIR & DFT) was taken up by Dr S Muthu Professor, Anna Govt.Arts College, Tiruvannamalai..From 12 AM, to 1 PM, Theory Session on Thermal properties of biomaterials & Food materials (TGDTA) was taken up by Dr.R Balakrishnaraja, Professor, Head/Btech, BIT Sathy. From 1 30 to 3 30 PM, Group-1 Hands on session on Density Functional Theory (DFT) was explained by Dr K Sadasivam, Physics, Group-2 Hands on session on Spectro-Fluorometer (PL) was explained by Dr M Malathi, Group-3 Hands on session on Cyclic Voltammetry work station (CV) was explained by Dr S Arulmani, Group-1 Hands on session on High/Fast performance Liquid Chromatography (HPLC/FPLC) was explained by Dr Kiruba Shanker and from 3 45 to 5 45 PM, Part-1 Technology business incubator making (TBI-BIT) was taken. at the end Feedback and Validictory.