

**Training program MU  
FINAL REPORT  
4TH JAN TO 10TH JAN 2023**

**Day 1:- 4/01/2023**

At 9 am the program started with the registration process of candidates and also the distribution of stationary to the participants. The program has been started with a national song followed by an inauguration by key guest honors President-Prof.M. Jayashankar, dean, Faculty of Science and Technology, Mangalore University. Chief Guest- Prof.Satybodh M.Kulkarni, Dean (Research and Consultancy), NITK, Surathkal. From 11 to 1 PM Lecture-1: "Electron Microscopy for Material Analysis" was taken up by Dr. Manjunatha pattabi, Professor & Chairman, Department of Materials Science, Mangalore University. From 2 to 3 PM Lab session:- FESEM was explained by Dr. Murari M S, Scientific Officer, DST-PURSE Instrumentation Centre, Mangalore University. Then from 3 to 5 PM Lecture-2:-"Basics of GC & GCMSMS and Application" was taken up by Mr. Dushyanth Hegde, Application specialist, Toshvin Analytical Pvt, Ltd., Bengaluru, and from 5 to 6 PM Lab Session:- GCMS was explained by Mr. Dushyanth Hegde, Application specialist, Toshvin Analytical Pvt, Ltd., Bengaluru.

**Day 2:- 5/01/2023**

In the morning session from 9:15 to 11:15 AM Lecture-3: "SCXRD: A tool to boost the research" was taken up by Dr. Darshak R. Trivedi, Associate Professor, Department of Chemistry NITK, Surathkal. Mangalore, from 11:15 to 1:15 PM Lab session: - SCXRD was explained by Dr. Darshak R. Trivedi, Associate Professor, Department of Chemistry NITK, Surathkal. Mangalore Then from 3 to 5 PM Lecture-4:-"Scope and Application of Amino Acids Analyser in Biology" was taken up by Dr.Bhagya N, Assistant Professor, Yenepoya Research Center, Yenepoya (Deemed to be University). And from 5 to 6 PM Lab Session: - Amino Acids Analyser was explained by Dr. Sathish K.R, Scientific Officer, DST-PURSE Instrumentation Centre, Mangalore University.

**Day 3:- 6/01/2023**

In the morning session from 9:15 to 11:15 AM Lecture-5: "Basic working principle of LCMS-MS and Hands-on training on the usage of LCMSMS" was taken up by N.Manohar, Application specialist, Spinco Biotech Pvt Ltd, Bengaluru. From 11:15 to 1:15 PM Lab session: -LCMS was explained by N. Manohar, Application specialist, Spinco Biotech Pvt Ltd, Bengaluru. And from 2:15 to 4:15 PM Lecture-6: "Working of single crystal XRD and recent developments in the field of crystallography" by Pranab Purkayastha, Chief General Manager, M/s. IR Technology Services Pvt.Ltd., Bangalore.And from 4:15 to 6:15 PM Lab Sessions: single crystal XRD was explained by Mr. Anil Kumar, Scientific Officer, DST-PURSE Instrumentation Centre, Mangalore University.

**Day 4:- 7/01/2023**

In the morning session from 9:15 to 11:15 AM Lecture-7: "Principles and Applications of Amino Acid Analysis" by Dr.Cletus M D'Souza, Adjunct Professor, Department of Biochemistry, Mangalore University, Mangalagangothri.From 11:15 to 1:15 PM Lab session: - Amino Acid Analysis was explained by Dr.Cletus M D'Souza, Adjunct Professor, Department of Biochemistry, Mangalore University, Mangalagangothri. And from 2:15 to 4:15 PM Lecture-8: "Spin Choreography in Paramagnetic Systems(pNMR)" was taken up by Dr.Shashi Kumar K, DEPT. of Physics, Alva's Institute of Engineering and Technology, moodbidri, Mangalore. And from 4:15 to 6:15 PM Lab Sessions: NMR was explained by Dr.Shashi Kumar K, DEPT. of Physics, Alva's Institute of Engineering and Technology, moodbidri, Mangalore.

### **Day 5:- 8/01/2023**

In the morning session from 9:15 to 11:15 AM Lecture-9: "NMR Spectroscopy: Introduction and Applications" was taken up by Dr. Sankeerth Hebbar, Principal, Kumaraswamy P u College, Subramanya. From 11:15 to 1:15 PM Lab session: - NMR was explained by Mrs.Vinitha DSa, Scientific staff, MHRD-RUSA NMR Instrument Centre, Mangalore University. And from 2:15 to 4:15 PM Lecture-10: "Analysis of Bioactive Compounds using LC-MS Techniques" was taken up by Dr. Ananda, Associate Professor, Biological Sciences Division, Poornaprajna Institute of Scientific Research, Bengaluru, and from 4:15 to 6:15 PM Lab Sessions: LCMS was explained by Mr. Praveen P, Scientific Officer, DST-PURSE Instrumentation Centre, Mangalore University.

### **Day 6:- 9/01/2023**

In the morning session from 9:15 to 11:15 AM Lecture-11: Application of Confocal Microscopy in Scientific Research" was taken up by Dr. Shamprasad V.R., DBT-Ramalingaswami Fellow, Mangalore University. From 11:15 to 1:15 PM Lab session: Confocal Microscopy was explained by Dr. Shamprasad V.R., DBT-Ramalingaswami Fellow, and Mangalore University. And from 2:15 to 4:15 PM Lecture-12: "Working principle and applications of field Emission Scanning Electron Microscope" was taken up by Dr. Murari M S, Scientific Officer, DST-PURSE Instrumentation Centre, Mangalore University. and from 4:15 to 6:15 PM Lab Sessions: FESEM was explained by Dr. Murari M S, Scientific Officer, DST-PURSE Instrumentation Centre, Mangalore University.

### **Day 7:- 10/01/2023**

In the morning session from 9 to 11 AM Lecture-13: "Strengthening Biological Research Data using Analytical and Imaging Equipment" was taken up by Dr. Rekha P.D., Professor and Deputy Director, Yenepoya Research Center Yenepoye (Deemed to be University), Deralakatte, Mangalore, From 11 to 1 PM Lecture-14: "Plants to molecules and their applications" was taken up by Dr. Chandrashekhar., Professor & scientist, Yenepoye (Deemed to be University), Deralakatte, Mangalore. in the afternoon session from 2 to 4 PM Lab session: LCMS was explained by Mr. Praveen P, Scientific Officer, DST-PURSE Instrumentation Centre, Mangalore University and from 4 to 5 PM Lab session: LCMS-MS was explained by Dr. Chandrashekhar., Professor & scientist, Yenepoye (Deemed to be University), Deralakatte, Mangalore. and at the end of the day from 5 to 6 PM Valedictory in the presence of President- Dr.Kishore Kumar C.K., Registrar, Mangalore University Chief Guest-Dr.Chandrashekhar, Professor & Scientist, Yenepoya (Deemed to be University), Deralakatte, Mangalore.