

FINAL REPORT

JNTUH (SPOKE) in Association with DST STUTI-21

A Seven Days Training Program on DST supported R&D equipment through Hands-on Experience

Venue: Institute of Science & Technology, JNTUH Dates: 18th – 24th April, 2022

Day 1:- 18/04 /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. Then the theory session Teaching and Learning UV Spectroscopy by Prof. V.Rajeswara Rao (NITW) was held from 10 to 12:15 AM. From 12:15 to 1:15 PM, a theory session on Teaching and Learning of IR Spectroscopy by Prof. V.Rajeswara Rao (NITW) which continuation after the lunch break till to 3:15 PM and Hands on experience on XRD(Batch-1) by D.Rakesh, Hands on Experience on BET (Batch-2) by Dr.Shilpa and vice versa has been covered from 3:15 PM to 5:30 PM.

Day 2:- 19/04 /2022

From 9.00 AM to 11.00 AM, a theory session on Teaching and Learning GC-MS by Dr. Prabhkar (IICT) was held followed by a theory session on Teaching and Learning of NMR (Nuclear Magnetic Resonance) Spectroscopy by Dr. AVS Sharma, (IICT) from 11:15 AM to 1:15 PM. From 2:15 PM to 3:15 PM, a theory session on Teaching and Learning of Gas Sensors by Dr. KV Rao was held. From 3:15 PM to 5:30 PM, Hands on experience on Gas Sensors (Batch-1) by Dr. KV Rao, Hands on Experience on Microwave technique (Batch-2) by Prof. Jaya and vice versa has been covered by the end of the day..

Day 3:- 20/04 /2022

From 9.00 AM to 11.00 AM, theory session on Teaching and Learning of Microwave technique by Dr. V. Jayathirtha Rao, IICT was held and from 11:15 AM to 1:15 PM, a theory session on Teaching and Learning of LC-MS Dr.Prabhakar (IICT) was held. In the afternoon session, from 2:15 PM to 3:15 PM, Hands on Experience on NMR (Batch-1) by Prof.Jaya , Hands on Experience on HPLC (Batch 2) by Dr. A.Uma has been covered. From 4:30 PM to 5:30 PM, Hands on Experience HPLC (Batch 1) by Dr. A.Uma. Hands on Experience NMR (Batch-2) by Prof.Jaya was covered.

Day 4:- 21/04 /2022

From 9 AM to 11 AM, a theory session on Teaching and Learning of Fluorescence Spectroscopy by Dr. V.Jayathirtha Rao, IICT was held followed by a theory session on Teaching and Learning of Ultra sonication technique and its utility in organic synthesis Dr. KS from 11:15 AM to 1:15 PM. From 2:15 PM to 3:15 PM, a theory session on Teaching and Learning of RT PCR was taken by Dr. Ashok Ayyappa (Thermo Fisher Scientific India Pvt Ltd). From 3:15 to 5:30 PM

Hands on Experience on RT PCR and Gel Doc for (Batch-1) by Dr. A.Uma, Hands on Experience on Ultra sonication technique and its utility in organic synthesis (Batch-2) by Prof A.Jayasree and Hands on Experience on RTPCR and Gel by Dr. A. Uma (Batch-2), Hands on Experience on Ultrasonification technique and its utility in organic synthesis by Prof.A..Jayasree (Batch-1) has been covered.

Day 5:- 22/04 /2022

From 9 to 11 AM, a theory session on Teaching and Learning of XRD X-Ray Diffraction) by Dr. Balasubramanian Sridhar, IICT was held followed by Theory and application of AAS by Dr. Mohana Krishna Reddy, IICT from 11:15 TO 1:15 PM. Teaching and Learning of Cyclic Voltametry was handled by Mr. Sujay Patil (Metrohm India Limited) from 2:15 to 3:15. Hands on Experience of Cyclic Voltametry by Dr. Ch. Shilpa Chakra. (Batch-1), Hands on Experience UV -Vis- (Batch-2) by Prof.Ch. Sasikala and Hands on Experience of UV – Vis (Batch-1) by Prof. Ch. Sasikala, Hands on Experience on Cyclic Voltametry by Dr. Ch. Shilpa Chakra. (Batch-2) has been covered from 3:15 to 5:30 PM.

Day 6:- 23/04 /2022

From 9 to 11 AM, theory sessions on Teaching and Learning of BET by Dr.Venugopal & Teaching and Learning of TGDTA by Dr Bojja Sridhga, IICT from 11:15 TO 1:15 PM were held. Teaching and Learning of HPLC by Dr. U. Satyanarayana (Waters India Pvt Ltd.) was held from 2:15 to 3:15PM. Hands on Experience of Zeta Potential analyser (Batch-1) by Dr. M.Sunitha Reddy, Hands on Experience of FTIR (Batch-2) by Dr.A. Uma & Hands on Experience of Zeta Potential analyser (Batch-2) by Dr. M.Sunitha Reddy Hands on Experience of FTIR (Batch-1) Dr.A.Uma were handled from 3:15 to 5:30 PM.

Day 7:- 24/04 /2022

From 9 to 11 AM, a theory session on Teaching and Learning of GC by Dr. Mohana Krishna Reddy, IICT was held followed by a theory session on Teaching and Learning of Zeta potential by Shaik Muhammad Fazal Haq from 11:15 TO 1:15 PM. Hands on Experience of Fluorescence by Dr. Sabithakala, Hands on Experience of TGDTA by Dr.Ch.Shilpa Chakra has been covered from 2:15 to 4:15 PM. The one week programme was concluded with a Feedback /Valedictory session from 4:30 to 5:30 PM.