

Schedule of Skill Training Program on
“Microbial Diversity Assessment through Amplicon Data Analysis”, September 10-12, 2024

Day 1 September 10,2024		
10.00-10.15	Registration	Venue: CSIR-NEERI's Hyderabad Zonal Centre (HZC)
Inauguration 10.15-10.30	Welcome Address	Dr. Shaik Basha Chief Scientist & Chair, HZC
	Green Skill Development	Dr. Harshvardhan Singh Sr. Principal Scientist & Incharge, SDC
	Course Briefing	Dr. Meganathan P.R. Sr. Scientist,HZC & Course Coordinator
	Inaugural Address	Dr. Atul N. Vaidya Director, CSIR-NEERI
10:30-11:30	Introduction to amplicon-based microbiome studies and big-data analysis	Dr. Meganathan P. R
11.30 – 11.45	Tea Break	
11:45 – 13:30	Visualization and understanding of sequencing data (big-data analyses) & Hands-on training	Dr. Meganathan P. R
13:30 -14:30	Lunch Break	
14.30 – 15.30	The sequencing technologies, amplicon data generation and data processing	Dr. Divya Dej Sowpati, Scientist, CSIR-CCMB, Hyderabad
15:30- 15:45	Tea Break	
15.45- 16.45	Amplicon data analysis using the DADA2 tool & Hands-on training	Dr. Meganathan P. R
16.45- 17.45	Air Pollution Monitoring and Health Impacts	Dr. T.V.B.P.S. Rama Krishna, Senior Principal Scientist
Day 2 September 11,2024		
09.30- 10.30	Taxonomy analysis using SILVA database & Hands-on training	Dr. Meganathan P. R
10.30- 11.30	Amplicon data analyses, interpretation and challenges	Dr. Sandeep Kushwaha, Scientist-E, National Institute of Animal Biotechnology, Hyderabad
11.30-11.45	Tea Break	
11.45-12.45	Microbial diversity analysis using Phyloseq tool & Hands-on training	Dr. Meganathan P. R
12.45-13.30	Soil Quality –Parameters and Methods for its assessment with respect to Base line Environmental Studies	Mrs. Morami Kalita, Principal Scientist/ S. Hari Rama Kumar, Technical Officer
13.30-14.30	Lunch Break	
14.30- 15.30	Statistical analysis of amplicon data (alpha and beta diversity analysis) & Hands-on training	Dr. Meganathan P. R
15:30-15:45	Tea Break	
15.45 -16.30	Introduction to water analysis and assessment of water pollution	S. Hari Rama Kumar, Technical Officer/ Er. Ramya Sanam, Principal Scientist,
16.30- 17.30	Analysis of core-microbial structure in the environment & Hands-on training	Dr. Meganathan P. R
Day 3 September 12,2024		
09.30 -10.30	Results interpretation and Analysis of test data	Dr. Meganathan P. R
10.30- 11.30	Metagenomics analysis and its applications	Dr. Ajay Kumar Mahato, Staff Scientist, Centre for DNA Fingerprinting and Diagnostics, Hyderabad
11.30- 11.45	Tea Break	
11.45- 12.45	Continuation of analysis of test data by participants- Hands-on session	Dr. Meganathan P. R
12.45- 13.30	Application of Geology/ Geophysical in Environmental Analyses	Mrs. V. Jyothi, Technical Assistant/ Er. Ramya Sanam, Principal Scientist
13.30-14.30	Lunch Break	
14.30-15.45	Presentation of results of data analysis by the participants	Dr. Meganathan P. R
15.45 – 16.00	Tea Break	
16:00 –16:30	Feedback / Valedictory Session and Certificate Distribution	Dr. Shaik Basha Dr. Harshvardhan Singh Dr. Meganathan P. R