



Integral Institute of Agricultural Science & Technology (IIAST) Integral University, Lucknow

Report

on

“Soil Techniques for Management of Soil Health and Optimizing Agricultural Production”

Department of Agriculture in association with ICAR-CSSRI, RRS, Lucknow organized a Training Program on "Soil Techniques for Management of Soil Health and Optimizing Agricultural Production." The training program was organized from 30 April to 2 May, 2024. This training programs covered fundamental principles of soil science, including soil properties, nutrient dynamics, pH levels, and texture analysis. Participants gain insights into the significance of soil health for Agricultural productivity, environmental sustainability, and human well-being. The goal of this training program was to provide students with the knowledge and skills needed to sustainably enhance crop productivity and maintain soil health. The module leaders were Dr. Sanjay Arora, Principal Scientist, ICAR-CSSRI, RRS, Lucknow, Dr. S. K. Jha, Principal Scientist, ICAR-CSSRI, RRS, Lucknow, Dr. Khalid Habib, Associate Professor, IIAST and Dr. P. Smriti Rao, Assistant Professor, IIAST. The training program was observed under the guidance of Prof. (Dr.) Mohd Haris Siddiqui, Dean, Faculty of Agricultural Science and Technology and Prof. Saba Siddiqui, Head, Department of Agriculture.

The details of the training programs are described below:

Day 1 (30/04/2024)

The program began with a welcome note by Dr. Saba Siddiqui, Head, IIAST. The training program details were given by Dr. Malik Mobeen Ahmad, Associate Professor, IIAST. Scope of the training program was explained by Dr. Khalid Habib, Associate Professor, IIAST. Lectures were addressed by Dr. Sanjay Arora, Principal Scientist, ICAR-CSSRI, RRS, Lucknow, Dr. S. K. Jha, Principal Scientist, ICAR-CSSRI, RRS, Lucknow. Vote of thanks was given by Dr. Salman Ahmad, Associate Professor, IIAST.

Module 1: Soil Sampling and Processing

This module was discussed by Dr. Sanjay Arora, Principal Scientist, ICAR-CSSRI, RRS, Lucknow and Dr. Khalid Habib, Associate Professor, IIAST. Soil sampling and processing are fundamental steps in any soil science research or agricultural practice. This module provides an in-depth understanding of the techniques and methodologies involved in soil sampling and processing. It covers the importance of representative sampling, various sampling methods,



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sample processing techniques, and the significance of accurate data collection for effective soil management and research outcome.

Module 2: Basic soil testing parameters

This module focuses on the essential parameters measured in soil testing to assess soil fertility, nutrient levels, pH, and other key characteristics crucial for effective crop management and soil health. Participants learned about the significance of each parameter, the methods used for analysis, interpretation of results, and practical applications in agricultural practices. This module was governed by Dr. S. K. Jha, Principal Scientist, ICAR-CSSRI, RRS, Lucknow and Dr. Khalid Habib, Associate Professor, IIAST.

Glimpses:



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