



**KERALA AGRICULTURAL UNIVERSITY**  
**DIRECTORATE OF EXTENSION**  
**CENTRAL TRAINING INSTITUTE**  
**Mannuthy P.O., Thrissur 680 651**



**Certificate Course on INM for Fertilizer Dealers – (19<sup>th</sup> batch)**

**Duration: 15 days (offline)**

**Venue: AV Lab, College of Agriculture, Padannakkad**

<b>Date</b>	<b>Session</b>	<b>Topics</b>	<b>Resource persons</b>
Day 1 (12/10/2022)	Forenoon	Inaugural session Pre- evaluation Ice breaking	Dr. Sulaja O. R, Asst Professor Ms. Shamna N, Asst Professor Mr. Anoop R. L, Asst Professor Dept. of Agricultural Extension College of Agriculture, Padannakkad
		Introduction about the programme	Dr. Binitha N K, Assistant Professor Department of Soil science and Agricultural chemistry, College of Agriculture, Padannakkad
	Afternoon	List of essential nutrients and their role in plant nutrition	Dr. Jinsy V S Assistant Professor Dept. of Agronomy College of Agriculture, Padannakkad
Day 2 (13/10/2022)	Forenoon	Essential nutrient deficiency: Impact and symptoms, Toxicity of essential plant nutrients on growth and development of crops	Mrs. Chris Joseph, Assistant Professor Dept of Soil Science & Agrl Chemistry, Regional Agricultural Research Station, Pilikkode
	Afternoon	Specification, nutrient contents, handling, storage and transportation	Mrs. Siji Chandran Assistant Professor Department of Soil Science and Agricultural chemistry, College of Agriculture Padannakkad
Day 3 (14/10/2022)	Forenoon	Importance of FYM, green manures, enriched compost, vermi-compost	Dr. Gayathri Karthikeyan Assistant Professor Dept. of Agronomy College of Agriculture, Padannakkad
	Afternoon	Methods of preparation of manures and compost (Practical)	Mrs. Ancy Francis Assistant Professor Dept. of Agronomy College of Agriculture, Padannakkad
Day 4 (15/10/2022)	Forenoon	Field visit	Dr. Sulaja O R, Assistant Professor Department of Agricultural Extension, College of Agriculture, Padannakkad
	Afternoon	Field visit	Dr. Shamna N Assistant Professor Department of Agricultural Extension, College of Agriculture, Padannakkad

Day 5 (17/10/2022)	Forenoon	Assessment and Interpretation of water quality	Mrs. Siji Chandran Assistant Professor Department of soil science and Agricultural chemistry, College of Agriculture Padannakkad
	Afternoon	Preparation and application of fertilizer solution for foliar spray (Practical)	Mrs. Chris Joseph, Assistant Professor Dept of Soil Science & Agrl Chemistry, Regional Agricultural Research Station, Pilikkode
Day 6 (18/10/2022)	Forenoon	Organic farming and components	Mrs. Ancy Francis Assistant Professor Dept. of Agronomy College of Agriculture, Padannakkad
	Afternoon	Organic farming practices in major crops	Dr. Gayathri Karthikeyan Assistant Professor Dept. of Agronomy College of Agriculture, Padannakkad
Day 7 (19/10/2022)	Forenoon	Brief description of Indian soils. Brief description of acid, saline and sodic soils	Mrs Chris Joseph, Assistant Professor Dept of Soil Science & Agrl Chemistry, Regional Agricultural Research Station, Pilikkode
	Afternoon	Common adulterants of fertilizers Simple qualitative tests for assessing purity of fertilizers (Practical)	Mrs.Siji Chandran Assistant Professor Dept. of Soil Science and Agricultural Chemistry College of Agriculture, Padannakkad
Day 8 (20/10/2022)	Forenoon	Chemical fertilizers- Importance and classification Fertilizer recommendation in major crops	Mr.Shameer Muhammad Assistant Professor Dept. of Soil Science and Agricultural Chemistry College of Agriculture, Padannakkad
	Afternoon	Description of utility of Soil Test Fertilizer Recommendation (STFR) Meter	Mrs Chris Joseph, Assistant Professor Dept of Soil Science & Agrl Chemistry, Regional Agricultural Research Station, Pilikkode
Day 9 (21/10/2022)	Forenoon	Soil sampling techniques for field and plantation crops (Practical)	Dr. Nidheesh P Assistant Professor Dept. of Soil Science and Agricultural Chemistry College of Agriculture, Padannakkad
	Afternoon	Assessing soil fertility status using SFTR Meter (Practical)	Mrs Chris Joseph, Assistant Professor Dept of Soil Science & Agrl Chemistry, Regional Agricultural Research Station, Pilikkode
Day 10 (22/10/2022)	Forenoon	Rating of soil nutrient status, recommended dose of nutrients for important crops, soil test based fertilizer recommendation	Dr. Nidheesh P Assistant Professor Dept. of Soil Science and Agricultural Chemistry College of Agriculture, Padannakkad
	Afternoon	Micronutrient fertilizer and their application	Mr. Shameer Muhamad Assistant Professor Dept. of Soil Science and

			Agricultural Chemistry College of Agriculture, Padannakkad
Day 11 (25/10/2022)	Forenoon	Soil health card: Important soil parameters recommendations. Reclamation, important amendments	Dr. Nidheesh P Assistant Professor Dept. of Soil Science and Agricultural Chemistry College of Agriculture, Padannakkad
	Afternoon	Conservation agriculture and soil health, Methods of application of fertilizers, manures and biofertilizers	Mrs. Ancy Francis, Assistant Professor Dept. of Agronomy College of Agriculture, Padannakkad
Day 12 (26/10/2022)	Forenoon	Computation of fertilizer dose on the basis of soil testing (Practical) Determination of lime and gypsum requirement (Practical)	Dr. Nidheesh P Assistant Professor Dept. of Soil Science and Agricultural Chemistry College of Agriculture, Padannakkad
	Afternoon	Field orientation in application of fertilizers, manures and biofertilizers (Practical)	Dr. Jinsy V S Assistant Professor Dept. of Agronomy College of Agriculture, Padannakkad
Day 13 (27/10/2022)	Forenoon	Importance of bio - inoculants such as Rhizobium, Azotobacter, Phosphate solubilizers, Azospirillum, Blue Green Algae, Trichoderma etc.	Dr. Bobby V Unnikrishnan Assistant Professor Dept. of Agricultural Microbiology College of Agriculture, Padannakkad
	Afternoon	Handling and preparation of Biofertilizers (Practical)	Dr. Bobby V Unnikrishnan, Assistant Professor, Dept. of Agricultural Microbiology, College of Agriculture, Padannakkad
Day 14 (28/10/2022)	Forenoon	Fertilizer control order 1985	Mrs. Siji Chandran Assistant Professor Dept. of Soil Science and Agricultural Chemistry College of Agriculture, Padannakkad
	Afternoon	Responsibilities of dealers- Management of stock and registers in depo	Dr. Binitha N K Assistant Professor Dept. of Soil Science and Agricultural Chemistry College of Agriculture, Padannakkad
Day 15 (29/10/2022)		Examination, Post - Evaluation, Feedback	Dr. Sulaja O. R, Asst Professor Ms. Shamna N, Asst Professor Mr. Anoop R. L, Asst Professor Dept. of Agricultural Extension College of Agriculture, Padannakkad
		Valedictory session	Dr. Jayaraj P Professor & Head KVK Kannur

Course Director: Dr. Sulaja O R  
Co- course Director: Dr. Shamna N  
Assistant Professors,  
College of Agriculture, Padannakkad