

Online Certificate Program (30 hours)

1. Soil Analysis

Days	Topics
1	Introduction of Soil its types and components
2	Chemical Properties of Soil.
3	Physical Properties of Soil.
4	Biological Properties of Soil
5	Fertility status of soil with respect to nutrients.
6	Soil Pollution
7	Importance of soil testing and analysis
8	Study of various instruments required for soil testing.
9	Use of soil Testing kit
10	Soil sampling and testing
11	Virtual Tour to Soil Analysis Lab
12	Test (MCQ and Subjective)
13	Seed Testing Analysis Report Writing
14	Report Submission
15	Feedback and Certificate Distribution

2. Seed Science and Technology

Days	Topics
1	Introduction to Seed Science
2	Floral Biology, Seed Development & Maturation
3	Seed Germination
4	Seed Dormancy
5	Seed Quality Assessment Part I Seed Moisture Content, Seed Viability
6	Seed Quality Assessment Part II Membrane Perturbation, Seed Vigor Test, Seed purity Test
7	Post harvest: - Storage & Deterioration
8	Seed Ageing:- Mechanisms & Kinetics (Physical Changes)
9	Seed Ageing:- Biochemical & Molecular Changes
10	Germplasm Conservation and Preservation
11	Quality Seed Production
12	Varietal Deterioration & Maintenance of Genetic Purity
13	Seed Pathology
14	Seed Certification & Marketing
15	Feedback & Test Certificate Distribution