The Theory of AutoAgronom

Catalogue Number	77-8100-1012
Category	Agriculture
Duration	15 Hours

Lesson 1: Introduction to AutoAgronom

Theoretical Basis for the AutoAgronom System

The History of AutoAgronom

What is the AutoAgronom System?

Structure of the Root, the Water and Mineral Intake

Parameters Affecting the Plant Water Loss

How Does AutoAgronom Maintain the Water Balance

Task: Roots Behavior in Drip Irrigation

Review Test 1 Quiz

Lesson 2: AutoAgronom System Physical Basis

Physical Principles

Oxygen Level in Soil Solution

Water Movement in Soil Solution

Application to the AutoAgronom System

Task: Water Movement Types and Irrigation Methods
Review Test 2 Quiz

Lesson 3: Irrigation in the AutoAgronom System

Soil Moisture Tension and Irrigation Management

Soil Wetting

Control of Total Water Quantity

Task: The Effect of Unregulated Drip Irrigation on Plants

Review Test 3 Quiz

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Lesson 4: Fertilization Management

- Importance of the Fertilization Control
- Fertilization Management Objectives
- Control of Temperature, Acidity, Electrical Conductivity, and Nitrates
- Fertilization Management Decisions
- Implementation of the Fertilization System in the AutoAgronom
- Task: Effects of Fertilizer Concentration and Fertilization Method
- Review Test 4 Quiz
- Review Test 5 Quiz

Lesson 5: The AutoAgronom Revolution

- Principles of the AutoAgronom Revolution
- Advantages of AutoAgronom
- Task: Root and Rootlet Development in Sunflower Saplings

Post-test: The Theory of AutoAgronom

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