

## *Mediterranean Agronomic Institute of Chania*

### *B. Centre of Applied Agrobiological and Food Sciences*

#### *B2. Sustainable Agriculture*

##### *Objectives*

- To introduce the frame of the legal requirements and the methodological approach to certification systems of environmental friendly, sustainable and safe agrofood production.
- To specify the requirements of sustainability within the context of the new Common Agricultural Policy and the application of the quantitative methods for measuring the effect of sustainable production to environment.
- To provide the agronomic knowledge of assessing the impact of the biotic and abiotic production inputs to sustainable production systems.
- To present modern recycled soiless greenhouse production methods and their application to sustainable horticultural production.
- To emphasise on case studies in organic and integrated production management on various horticultural crops and sustainable post-harvest preservation methods.

The program is mainly addressed to graduates of Agricultural Engineering, or other related field.

##### *1. Training sequence*

###### *Section 1 - Introductory Discipline [11/10/2004 – 29/10/2004]*

Unit 1 - English

M. Verivaki,

MAICh

Unit 2 - Computer

N. Boretos,

MAICh

###### *Section 2 - Introductory Discipline [01/11/2004-12/11/2004]*

Unit 1 - Statistics

Prof. A. Kanas,

Univ. of Crete, Greece

Unit 2 - Crop Experimentation

Prof. H. Zintzaras,

University of Thessaly, Greece

###### *Section 3 - Introduction to Sustainability [15/11/2004 -03/12/2004]*

Unit 1 - Good Agricultural Practice and Quality Assurance

Dr. I. Vlachoianis,

IDS Institute, Athens-Greece

Unit 2 - Agri-environmental Indicators

Prof. H. Piorr,

School of Landscape Use, Germany

###### *Section 4 - Assessment of Genetic Resources [06/12/2004 – 14/01/2005]*

Unit 1 – Seed Biology Production and Conservation

Prof. C. Thanos,

National & Kapodistrian Univ. of

Athens, Greece

Unit 2 – Production of Virus-Free Propagative Material

Prof. N. Katis,  
Aristotle University of Thessaloniki,  
Greece

Unit 3 – Biotechnological Approaches to Plant Propagation

Prof. A. Economakis,  
Aristotle university of Thessaloniki –  
Greece

***Section 5 - Environmental Physiology [17/01/2005 – 04/02/2005]***

Unit 1 – Stress Physiology

Dr. P. Radoglou,  
NAGREF, Thessaloniki-Greece

Unit 2 – Crop Modelling and Bioclimatology

Dr. M. jTchamitchian,  
INRA, Avignon – France

***Section 6 - Soil and Water Management [07/02/2005 – 04/03/2005]***

Unit 1 – Introduction to Soil Science [plus Lab]

Prof. V. keramidas,  
Aristotle university of Thessaloniki –  
Greece

Unit 2 – Soil Fertility Management

Prof. U. Kopeke,  
Univ. Bonn, Germany

Unit 3 – Water Management

Prof. A. Baille,  
Polytechnic University of Cartagena,  
Spain

***Section 7 - Crop Protection [07/03/2005 – 01/04/2005]***

Unit 1 – Plant Disease Management

Prof. h. Piorr,  
School of Landscape Use, Germany

Unit 2 – Insect Management

Prof. E. Kapetanakis,  
TEI Heraklion – Greece

Unit 3 – Weed Management & Pest Management

H. Eleftherochorinos,  
Aristotle university of Thessaloniki -  
Greece

***Section 8 - Greenhouse Management [04/04/2005 – 22/04/2005]***

Unit 1 – Greenhouse Technologies and Climate Control

Prof. k. Kittas,  
University of Thessaly, Volos-Greece

Unit 2 – Soilless Culture

Prof. D. Savvas, TEI Epirus, Arta-  
Greece

***Section 9 - Sustainable and Organic Farming [09/05/2005 – 17/06/2005]***

Unit 1 – Principles of Organic Farming

Prof. U. Aksoy,

Univ. of Bornova, Izmir-Turkey

Unit 2 – Fertilization in Organic Farming Systems

Dr. J. Raupp,

Institute for Biodynamic Research,  
Darmstadt-Germany

Unit 3 – Crop Protection without Pesticides in Organic Farming Systems

to be determined

Unit 4 – Applied Sustainable Production Methods

Prof. E. Sfakiotakis,

Aristotle university of Thessaloniki,  
Greece

Unit 5 – Case Studies in Organic and Integrated Production (olive, vineyard,  
citrus, vegetable, cotton)

***Section 10 - Post-Harvest Preservation Methods [20/06/2005 - 01/07/2005]***

Unit 1 – Post-harvest Preservation Methods

Prof. E. Sfakiotakis,

Aristotle University of Thessaloniki -  
Greece