Master in Sustainable Agriculture

The Master on Sustainable Agriculture is a two-year programme for graduates holding a university Bachelors degree in Agriculture or other related sciences.

Objectives
In the first year participants follow the Postgraduate Specialization Course to: i) be introduced in agroecology, environmental indicators of integrated crop management and organic farming systems; ii) familiarize with the certification systems of environmentally friendly and sustainable agricultural production; iii) present latest advances in management of soil, water and genetic resources in agriculture; iv) be exposed in a thorough background of crop protection; v) get acquainted with bioclimatology, automatization and modern recycled soilless greenhouse production methods

The qualified first year graduates are entitled of pursuing their research in an environment fully equipped with the most updated facilities.

In the second year, students who have successfully completed the first year develop a thesis based on research work leading to a Master's of Science degree.

The scientific results of graduate studies are usually announced in International Conferences and/or published in World renowned journals.

Research Activities
- Evaluation of compost use as a substrate in hydroponic systems with application of variable parameters (e.g. CO₂, salinity)
- Study of mediterranean insect pests activity and their bio-ecological characteristics
- Host-virus interactions essential for virus replication and resistance
- Genetic basis of weeds resistance to herbicides
- Research topics on organic farming, integrated pest management as well as comparison of nutrient and energy budgets of conventional and organic farming systems as environmental indicators

Requirements
Applicants must have the academic level that qualifies them to undertake postgraduate level studies in their home country equivalent to a minimum of four years undergraduate studies. Their degree must also be in a discipline compatible with the area of specialisation.

The working language of MAICh is English.

Applicants can apply for scholarship covering (fully or partly): a) tuition b) room and board c) health insurance d) pocket money

Scholarships are available - No Tuition Fees.

For more information, visit our website at: http://www.maich.gr/sust or send inquiries to livieratos@maich.gr
EDUCATIONAL SEQUENCE

1st SEMESTER October - February

SAG520.11010.0 Introduction to Sustainability – (15 ECTS)
SAG524.1410.1 AGRO-ECOSYSTEMS AND POPULATION DYNAMICS
SAG522.2306.3 AGRO-ENVIRONMENTAL IMPACT ASSESSMENT & FARM MANAGEMENT
SAG525.1305.1 ECOTOXICOLOGY
SAG523.1304.1 QUALITY ASSURANCE & GOOD AGRICULTURE PRACTISES

SAG530.1810.0 Natural Resources Management – (8 ECTS)
SAG531.2510.13 SOIL PROPERTIES & QUALITY ASSESSMENT AND COMPOSTING TECHNOLOGY
SAG532.1304.1 NUTRIENT MANAGEMENT AND SOIL FERTILITY IMPROVEMENT

SAG540.1810.0 Assessment of Genetic Resources – (7 ECTS)
SAG541.2410.23 SEED PRODUCTION AND QUALITY MANAGEMENT / PLANT BREEDING
SAG543.1410.3 AGRO-BIODIVERSITY ASSESSMENT AND MANAGEMENT

2nd SEMESTER March - June

SAG550.11510.0 Crop Protection – (15 ECTS)
SAG552.2310.23 IPM / FUNGAL & BACTERIAL DISEASE MANAGEMENT
SAG553.2410.12 DETECTION AND EPIDEMIOLOGY OF PLANT VIRUS DISEASES
SAG554.1410.23 INSECT MANAGEMENT
SAG555.2410.2 WEED MANAGEMENT

SAG560.11210.0 Greenhouse Management – (8 ECTS)
SAG562.1410.1 GREENHOUSE TECHNOLOGIES AND CLIMATE CONTROL
SAG563.1410.1 SOILESS CULTIVATION

SAG561.1410.0 Biometrics – (4 ECTS)
SAG510.1410.1 CROP EXPERIMENTATION

SAGX.Y.Z Innovation and Communication in Sustainable Farming – (3 ECTS)
SAGX.Y.Z INNOVATION AND COMMUNICATION IN SUSTAINABLE FARMING

Recent Publications


Nol, N., Livieratos, I.C. and Giannopolitis, C.N. (in press). Reduced susceptibility to glyphosate of Conyza canadensis plants from a conventional citrus orchard in Crete (Greece) and early detection of resistance with the shikimate leaf disc assay. Crop Protection.