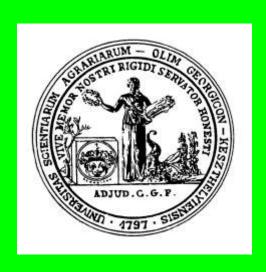
# Lecture 1 Basics of Horticulture



#### **Basics of Horticulture**

Instructors: László Kocsis

'E' Bldg

+36 83 545 058

kocsis-l@georgikon.hu

Gitta Molnár Kocsisné

'E' Bldg

+36 83 545 056

kmg@georgikon.hu

János Kovács

'E' Bldg

+36 83 545 069

j-kovacs@georgikon.hu

### Requirements

Grades will consists of student lecture, written exam, term paper and final exam. Final grade will be based on total points.

#### Points:

Student lecture	100	441 - 500 = 5
Written exam	100	381 - 440 = 4
Term Paper	100	321 - 380 = 3 261 - 320 = 2
Final	200	< 260 = F
Total	500	

### Course Outline

- Introduction of horticultural production in the World 3 hours
- Plant organs of horticultural plants 2 +1 hours
- Ecology of horticultural plants Light and water 2 hours
- Student lecture-introduction of the home country horticultural production 1 hour.
- Ecology of horticultural plants Temperature and land exposition –2 hours
- Student lecture-introduction of the home country horticultural production 1hour.
- Soil cultivation and mineral nutrition in horticulture 2 hours
- Excursion 5 hours.
- Vegetative propagation of horticultural plants 2 hours
- Generative propagation of horticultural plants 2 hours
- Establishment a plantation 2 + 1 hours
- Gardening in the greenhouse 2 + 1 hours
- Shape and size 2 hours
- Written exam 1 hour
- Pruning 2+1 hours
- Plant problems Diseases, Pests, Weeds 4+2 hours
- Harvest and postharvest handling 2+1 hours

### Objective of the Course

- The students have to learn about the speciality of world horticulture.
- Morphological, biological characteristics of horticultural plants are taught and ecological requirements needs to be understand.
- Basic cultural technics needs to be understand (soil cultivation, nutrition, establishment of the plantation, pruning, plant protection, harvest, postharvest treatment).

### What is Horticulture?

- Horticulture is the culture of plants for food, comfort, and beautification purposes
  - In Latin, the term horticulture means "garden culture"
  - However, advancements in horticulture science and technology have helped the field of horticulture become more than just garden culture.

### How Does Horticulture Relate to Science and Technology?

 The horticulture industry is the combination of scientific, technological, and production activities that insure the satisfaction of the consumer

 Science + Technology + Production = THE HORTICULTURE INDUSTRY

# The Three + One Major Segments of the Horticulture Industry

- The growth and use of plants for their beauty is the area of horticulture known as ornamental horticulture
  - Ornamental horticulture involves the production and use of flowering and foliage plants used both indoors and out.







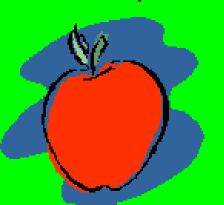
# The Three + One Major Segments of the Horticulture Industry

- The area of horticulture that involves the production of vegetable food crops is olericulture
  - Olericulture includes the planting, harvesting, storing, processing, and marketing of vegetable crops
  - Sweet corn, tomatoes, and lettuce are
     examples of vegetable crops

## The Three + One Major Segments of the Horticulture Industry

- Another food crop production area of horticulture is pomology
  - Pomology is the planting, harvesting, storing, processing, and marketing of fruit and nut crops

 Examples of fruit and nut crops include peaches, strawberries, and walnuts









## The + One Major Segments of the Horticulture Industry

- Viticulture is usually not listed into the horticulture it is differentiated as an industry itself.
  - Viticulture is the planting, harvesting, storing, and marketing of grapes. Processing could be divided different industry deepends on the final product.
  - Examples of raisin, wines, juice or fresh fruit.







