



Horticultural Information Systems (3MI09NAK13M)

I. GENERAL INFORMATION

Number of hours per semester: 1 lecture + 2 practice/week

Credits: 3

Semester: fall

Language: English

Prerequisites: basic mathematics

Course type: mandatory/optional

Department: Dpt. of Biometrics and Agricultural Informatics

Course leader: Dr. Ladányi, Márta PhD, associate professor, head of department

Course description: The aim of the course is to present the role of the information systems in agriculture and horticulture. The seminar exercises include data collection, data analysis, data visualisation and database management.

Requirements:

To get the signature at the end of the semester:

- taking an active part in the practical
- maximum 2 absents are allowed
- send in practical solutions at the end of each class

Assessment, grading: In case of good results these can substitute the exam. With less than 50% of any of the tests, exams can be written on the exam period (3 times). The exam topic is the whole semester's material, and it has theoretical and practical part (both parts need to reach at least 50%).

Recommended readings:

- Handouts, lecture notes

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Microsoft Access 2013 – An Essential Guide. University of Reading

<http://www.reading.ac.uk/web/FILES/its/AccessEssen2013.pdf>

Microsoft Access 2013 – An Intermediate Guide. University of Reading

<http://www.reading.ac.uk/web/files/its/AccessInter2013.pdf>

II. DETAILED PROGRAM

Discussed chapters:

- Overview of agricultural information systems (theoretical)
- EUROSTAT, data search, structure, export and data management in MS Excel (practical)
- Data visualisation and calculations in Excel (practical)
- Pivot tables (practical)
- Database management using MS Access: tables, queries, forms and reports (practical)

Learning outcomes: After having completed the course, students will know a collection of useful agricultural information systems. They will be able to search and manage data and to create relational databases, where they can manage tables, queries, forms and reports. Moreover, they can visualize their data. They can make conclusions based on the findings.

Attendance policy: Students may be absent for 2 classes. Missing more than two classes will result in loss of credit for the module. Please note that the two absences are provided for sickness, so save your absences for situations you really need them.

Test(s) during the course:

Test 1 – practical using MS Excel and

Test 2 – theoretical and practical using MS Access

Programme: MSc in Horticulture