Biological and Phytotechnical Resources of Viticulture **3SZ22NAK12M**
2017/2018 I.

E-learning course: KERTK - 3SZ22NAK12M - Biological and Phytotechnical Resources of Viticulture - 2017/2018
E-learning password: furmint

Description of the Module
Demand for quality wine is increasing, while consumption of bulk wine is significantly decreasing. High quality fruit is the alpha of quality wine production. To achieve proper fruit quality, well designed and physiologically grounded phytotechnical management (pruning and canopy management) has to be carried out. The course handles essential knowledge of the background and recent trends of the grape and wine sectors and practical viticulture based on solid knowledge of grapevine biology.

Program

Weeks of semester	Date	Topic
1.	06. 09.	Come together, consultation, introduction
2.	13. 09.	Field trip to Tokaj
3.	20. 09.	Systematics – botanical and viticulture – of grapevines (Tamás Deák)
4.	27. 09.	Phenology and growth cycle of grapevines (Tamás Deák)
5.	04. 10.	Anatomy of the grapevine (Tamás Deák)
6.	11. 10.	Grapevine ecology, abiotic stresses (Borbála Bálo)
7.	18. 10.	Biological background of disease resistance in grapevines (Tamás Deák)
8.	25. 10.	Genetic resources of viticulture, breeding (Tamás Deák)
9.	01. 11.	National Holiday
10.	08. 11.	Training and trellising systems (György Lukácsy)
11.	15. 11.	Biology of pruning, pruning methods (György Lukácsy)
12.	22. 11.	Canopy management (György Lukácsy)
13.	29. 11.	Test
14.	06. 12.	Student presentations

Off-lecture work
Students will choose a topic of interest and have to write an essay of about 2,000 words based on literature research. At the end of the course, students will present their topic in a short scientific presentation, and optionally, give a short overview of grape and/or wine culture, industry of their home country (if there is any).

Final grades
- To accomplish the course, students should visit at least 80% of the thematic lessons.
- The final grade comprises from:
  - Test: 60%
  - Assay: 40%
- The final grade can be modified by an oral exam during the exams period.

Literature
Course slides will be supplied to the students during the course continuously (e-learning)
Keller, M (2010) The Science of Grapevines, Academic Press – Elsevier
Jackson, RS (2008) Wine Science (3rd edition), Academic Press – Elsevier

Tamás Deák