

Study Programme: Fruit science, viticulture and horticulture –module Fruit science and viticulture			
Course Unit Title: VIRUS DISEASES OF FRUITS AND GRAPEVINE			
Course Unit Code: 19.VI1029			
Name of Lecturer(s): Full Prof. Ferenc Bagi, PhD			
Type and Level of Studies: UNDERGRADUATE ACADEMIC STUDIES			
Course Status (compulsory/elective): elective			
Semester (winter/summer): summer			
Language of instruction: Serbian/English			
Mode of course unit delivery (face-to-face/distance learning): Face-to-face			
Number of ECTS Allocated: 6			
Prerequisites: None			
Course Aims: Mastering basics of plant virology with economically significant virus diseases of fruits and grapevine and control strategies.			
Learning Outcomes: The course gives knowledge for management and control of plant virus diseases with goal of reducing losses in yield quality and quantity. The acquired knowledge is also the base for further scientific work.			
Syllabus: <i>Theory</i> General section: history of plant virology, economic importance, symptoms of virus diseases, chemical properties, morphology of virus particles, antigenic properties. Genome, gene expression, virus architecture. Virus multiplication. Ecology and epidemiology. Classification and nomenclature. Control of virus diseases. Specific section: economically most important virus diseases of fruits and grapevine: geographic distribution, characteristics of virus particles, morphology and structure of particles, hosts, pathogenesis, symptomatology, economic importance, Control measures. <i>Practice</i> Pathological changes in virus infected plants, physical, biophysical characteristics of viruses, detection and identification techniques, virus spreading mechanism, inoculation techniques.			
Required Reading: Bagi, F., Jasnić, S., Budakov, D. (2016). Plant Virology (In Serbian), Faculty of Agriculture, Novi Sad Balaž, F., Balaž, J., Tošić, M., Stojšin, V., Bagi, F. (2010): Phytopathology – Field Crops and Vegetables Diseases (in Serbian) Šutić, D. (1994): Plant Viruses (in Serbian), University of Belgrade (materials in English available upon request).			
Weekly Contact Hours:	Lectures: 2	Practical work: 2	
Teaching Methods: Teaching is carried out using modern techniques. Visual - didactic methods with the use of modern teaching aids and laboratory equipment. Practical classes - management of individual work of students and demonstrative - illustrative methods			
Knowledge Assessment (maximum of 100 points):			
Pre-exam obligations	points	Final exam	points
Active class participation		written exam	
Practical work		oral exam	60
Preliminary exam(s)	30	
Seminar(s)	10		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			