

<b>Study Programme:</b> Fruit growing and viticulture			
<b>Course Unit Title:</b> Production of grapevine and fruit planting material			
<b>Course Unit Code:</b> 19.VIV012			
<b>Name of Lecturer(s):</b> Sandra M. Bijelić, Borivoje V. Bogdanović, Ferenc F. Bagi and Dragoslav M. Ivanišević			
<b>Type and Level of Studies:</b> Master academic studies			
<b>Course Status (compulsory/elective):</b> Compulsory			
<b>Semester (winter/summer):</b> Winter			
<b>Language of instruction:</b> English			
<b>Mode of course unit delivery (face-to-face/distance learning):</b> Face-to-face			
<b>Number of ECTS Allocated:</b> 6			
<b>Prerequisites:</b> Vocational courses in the scientific field of Fruit growing and Viticulture from the basic academic studies.			
<b>Course Aims:</b> Acquisition of knowledge in the field of production of basic categories of fruit and grapevines reproductive planting material according to the principles and requirements of the European Union. Mastering the science of plant viruses and the process of production of virus-free planting material of fruit trees and grapevines.			
<b>Learning Outcomes:</b> The acquired knowledge is the basis for the production of high categories virus-free fruit and grapevine planting material. The obtained knowledge forms the basis for further scientific research.			
<b>Syllabus:</b>			
<i>Theory</i> Categories of planting material. Clone selection. Certification of different fruit species. Certification of grapevine clones. Production process of pre-basic fruit and grapevine planting material. Method of storing pre-basic planting material. Establishment of basic planting material for the production of seedlings, vegetative rootstocks and generative rootstocks. Production of certified fruit and grapevine planting material. Economic significance of viruses of different fruit and grapevine species. Fruit and grapevine viruses and pathological changes. Sources of viral infections and ways of virus transmission. Methods for testing for the presence of viruses. Methods of freeing plant material from viruses.			
<i>Practice</i> Clone selection methods. Methods of separation of pre-basic fruit and grapevine material. Methods of testing for specific viruses. Micropropagation of different fruit and grapevine species. Thermo-therapy of different fruit and grapevine species.			
<b>Required Reading:</b>			
<ol style="list-style-type: none"> <li>1. Bajaj, Y. P. S. Trees I Hardcover, Springer Verlag 1986</li> <li>2. Bajaj, Y. P. S. Trees II Hardcover, Springer Verlag 1989</li> <li>3. Šutić, D. Biljni virusi, Univerzitet u Beogradu 1994</li> <li>4. Šutić, D. Viroze biljaka, Institut za zaštitu bilja i životnu sredinu, Beograd 1995</li> <li>5. Mirošević N., Razmnožavanje loze i lozno rasadničarstvo, Zagreb 2007</li> <li>6. Todić S., Bešlić Z., Proizvodnja loznog sadnog materijala, Dosije studio. Beograd 2010</li> <li>7. Hajdu Edit, Cindrić P., Sorte vinove loze, sadni materijal i bolesti, Agroinform. Budimpešta, 2011</li> <li>8. Agrios, G., Plant pathology, Elsevier Academic Press, 2011</li> <li>9. Bagi, F., Jasnić, S., Budakov, D. Viroze biljaka Univerzitet u Novom Sadu, Poljoprivredni fakultet 2016</li> <li>10. Cerović, S., Gološin, B., Bijelić, S., Bogdanović, B. Rasadnička proizvodnja Univerzitet u Novom Sadu, Poljoprivredni fakultet 2015</li> </ol>			
<b>Weekly Contact Hours:</b>	<b>Lectures: 4</b>	<b>Practical work: 3</b>	
<b>Teaching Methods:</b> Modern methods are used: presentations, contemporary literature, and active work with students. Visual-didactic methods with the use of the latest teaching aids and laboratory equipment.			
<b>Knowledge Assessment (maximum of 100 points):</b>			
<b>Pre-exam obligations</b>	points	<b>Final exam</b>	points
Active class participation	10	written exam	
Practical work	20	oral exam	30
Preliminary exam(s)	20	.....	
Seminar(s)	20		
The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.			