

<b>Study program:</b> Agricultural Sciences			
<b>Type and level of study:</b> Doctoral academic studies			
<b>Course Title:</b> Specificity of plant production			
<b>Teacher(s):</b> Jovanovic B. Ljubinko, full professor, Nikolic P. Olivera, associate professor			
<b>Status:</b> Obligatory, III semester			
<b>ECTS:</b> 12			
<b>Prerequisite:</b> None			
<b>The goal of the course:</b> Introduction to basic principles of different systems of plant production, from conventional over integral to organic and specificity of plant production technology in the aim to achieve agro - ecosystem sustainability.			
<b>The outcome of the subject:</b> Completing planned program, students will dispose of significant knowledge and abilities to select adequate agritechnique treatments, the way and time of their application in plant production, adapted to the requirements of plant species, agriclimatic region characteristics, market demands and planting system characteristics.			
<b>Syllabus:</b> <i>Theoretical study –</i> Soil cultivation - importance, aim and way. Tillage and other cultivation procedures (time, depth, way). Soil cultivation system. Crop rotation - elements, reasons and pre – crop value. Grass plot system of cropping and system of free soil management. Plant production systems. Weeds and its control, definition and systematic. Seed - sowing and planting, seed traits, seed preparation, time, depth and way of sowing. Crop care – mechanical, physical and chemical care techniques. Water erosion and deflation – factors, agritechnique treatments against erosion and deflation. Soil fertility – diagnosis. Soil organic matter. Procedures for soil fertility improvement. Organic fertilizers. Harmonization organic matter mineralization with nutrients absorption. Procedures for preventing nutrients loss. <i>Practical classes –</i> Crop rotation planning. Knowing the most important weeds. Sowing and planting – sowing way, sowing rate, sowing quality rating.			
<b>Literature:</b> 1. <a href="https://www.ifoam.bio/en/organic-landmarks/principles-organic-agriculture">https://www.ifoam.bio/en/organic-landmarks/principles-organic-agriculture</a> 2. <a href="https://www.organicnet.co/info-center/resource/show/how-can-organic-farming-compete-with-conventional-farming">https://www.organicnet.co/info-center/resource/show/how-can-organic-farming-compete-with-conventional-farming</a> 3. <a href="https://www.google.com/search?client=firefox-b&amp;q=Next-gen+urban+farms%3A+10+innovative+projects+from+around+the+world">https://www.google.com/search?client=firefox-b&amp;q=Next-gen+urban+farms%3A+10+innovative+projects+from+around+the+world</a> 4. <a href="https://www.theguardian.com/sustainable-business/2014/jul/02/next-gen-urban-farms-10-innovative-projects-from-around-the-world">https://www.theguardian.com/sustainable-business/2014/jul/02/next-gen-urban-farms-10-innovative-projects-from-around-the-world</a> 5. <a href="http://novovalor.fr/2017/05/17/urban-farms-as-an-emerging-market-in-2017/">http://novovalor.fr/2017/05/17/urban-farms-as-an-emerging-market-in-2017/</a>			
<b>Number of lectures:</b>			Other Classes
Lectures: 3	Practices:	Other forms of teaching:	Student research work: 7
<b>Teaching methods:</b> Theoretical teaching part is performed in teaching rooms, using computer tools, by processed and presented lectures. Student research work is performed as field and laboratory trials, in accordance with area specify.			
Score for grading (maximal 100 points)			
<b>Pre-commitments</b>	<b>Poens</b>	<b>The final exam</b>	<b>Poens</b>
Activity during lectures	<b>10</b>	Written exam	
Practical classes	<b>10</b>	Oral examination	<b>50</b>
Colloquia	<b>2 x 10 = 20</b>		
Seminars	<b>10</b>		
<i>Total</i>	<b>50</b>		<b>50</b>