

<b>Studying course:</b> Forestry and Natural Resources Management			
<b>Subject:</b> Conservation of forest genetic resources			
<b>Professor/professors:</b> <a href="#">Dr. Mirjana Šijačić-Nikolić</a> , full prof. and <a href="#">Dr. Marina Nonić</a> , assis. prof.			
<b>Status of the subject:</b> Elective (izborni)			
<b>ECTS number:</b> 5			
<b>Condition:</b> -			
<b>Goal of the subject:</b> Gaining knowledge about the importance and methods of conservation and directed utilization of forest genetic resources.			
<b>Result of the subject:</b> Acquired knowledge in the field of conservation and directed use of forest genetic resources.			
<b>Content of the subject</b>			
<u>Theoretical part:</u>			
1. Biological diversity: Definition; Threats to biodiversity (2)			
2. Genetic diversity: Importance of genetic diversity; Sources of genetic diversity; Genetic diversity determination; Threats to genetic diversity (2)			
3. Forest genetic resources: Definition; Forest Genetic Resources Conservation Methods (2)			
4. State of forest genetic resources conservation in Europe (2)			
5. <i>In situ</i> conservation case studies (2)			
6. <i>Ex situ</i> conservation case studies (2)			
7. Linking Forest Genetic Resources with People (1)			
8. Climate change aspects in forest genetic resources conservation (2)			
<u>Practical part:</u>			
1. Biological diversity and genetic diversity: Sources, Threats, and Conservation (2)			
2. Forest genetic resources: Definition; Forest Genetic Resources Conservation Methods (2)			
3. <i>In situ</i> and <i>ex situ</i> conservation case studies (2)			
4. Writing the seminar paper about conservation of the gene pool of rare and endangered species - an introduction (2)			
5. The selection of areas for the conservation of the gene pool of rare and endangered species (2)			
6. Writing a proposal for a program of conservation and directed utilization of specific species - independent student work (3)			
7. Oral defense of seminar paper (2)			
<b>References:</b>			
1. Šijačić-Nikolić, M., Milovanović, J., Nonić, M. (2014): <i>Conservation of Forest Genetic Resources</i> . In: Ahuja M.R., Ramawat K.G. (eds.) "Biotechnology and Biodiversity" (Series: <i>Sustainable Development and Biodiversity</i> , Vol. 4). Springer: 103-129			
2. Šijačić-Nikolić, M., Milovanović, J., Nonić, M. (2018): <i>Forests of Southeast Europe Under a Changing Climate: Conservation of Genetic Resources</i> . eBook ISBN 978-3-319-95267-3; Hardcover ISBN 978-3-319-95266-6; DOI 10.1007/978-3-319-95267-3; Springer International Publishing: 486 pages			
3. Šijačić-Nikolić M. and Nonić M. (2019): <i>Biological Diversity: Global Threats</i> . In: Encyclopedia of the UN Sustainable Development Goals, Walter Leal Filho et al. (Eds): Life on Land ( <i>in press</i> )			
4. Nonić M. and Šijačić-Nikolić M. (2019): <i>Genetic Diversity: Sources, Threats, and Conservation</i> . In: Encyclopedia of the UN Sustainable Development Goals, Walter Leal Filho et al. (Eds): Life on Land ( <i>in press</i> )			
5. Šijačić-Nikolić M. and Milovanović J. (2019): <i>Conservation of Plant Species</i> . In: Encyclopedia of the UN Sustainable Development Goals, Walter Leal Filho et al. (Eds): Life on Land ( <i>in press</i> )			
<b>Number of active teaching lessons:</b> 60 (30+30) = 2+2	<b>Theoretical part of teaching:</b> 2 (15)	<b>Practical part of teaching:</b> 2 (15)	
<b>Methods of giving lectures:</b> During the lectures and practical classes, modern visual teaching tools are used to present the past and current activities on the conservation and directed utilization of forest genetic resources, both <i>in situ</i> and <i>ex situ</i> . During the practical classes, students work on a seminar paper.			
<b>Knowledge evaluation (max 100 points)</b>			
<b>Before exam obligations:</b>	points	<b>Final exam:</b>	points
<b>activity during lectures</b>		written exam	
<b>practical teaching</b>	<b>10</b>	oral exam	<b>60</b>
<b>colloquium(s)</b>		.....	
<b>seminar(s)</b>	<b>30</b>		