

Course Unit Descriptor

Study Programme: MSC Ecology		
Course Unit Title: Basics of Forestry		
Course Unit Code: ME31		
Name of Lecturer(s): Ružica Igić		
Type and Level of Studies: Master Academic Degree		
Course Status (compulsory/elective): elective		
Semester (winter/summer): Winter		
Language of instruction: English		
Mode of course unit delivery (face-to-face/distance learning): Face-to-face		
Number of ECTS Allocated: 7		
Prerequisites: None		
<p>Course Aims:</p> <p>Students should acquire basic knowledge about forestry, as well as to point to the necessity of preservation of forest ecosystems. Getting students familiar with restoration of the existing and establishing new forests. The goal is students to learn about forest genetic resources, targeted use and sustainable forest management in disturbed conditions.</p>		
<p>Learning Outcomes:</p> <p>The course provides the knowledge about cultivation and management of forests.</p>		
<p>Syllabus:</p> <p><i>Theory</i></p> <p>Forest genetic resources; Threats to forest genetic resources; Forest condition; Physiology of trees; Seeds of forest trees; Production of seedlings; Forest cultivation; Establishment of forests and plantations; Growth of forests; Forest protection; Forest management; Forest exploitation; Monitoring of forest ecosystems; Agrochemical systems.</p> <p><i>Practice</i></p> <p>Practical application of instruments for diameter and tree height measurements; Creation of volume tables; Determination of the tree age; Highlights of promising genotypes in natural populations; Test of progeny; Methods of seed treatment; Seed quality; Nurseries; Selection of a place for a nursery; Ways of restoring leaf and coniferous tree species in Serbia; Types of seedlings for planters; Methods of planting; Care after planting; Development of practical works on agro-industrial design; Plantation of forest trees in the protection of the environment; Planting fast-growing tree species.</p>		
<p>Required Reading:</p> <p>Гузина, В. (1986). Тополе и врбе у Југославији. Институт за тополарство, Нови Сад.</p> <p>Матаруга М., Исајев В., Орловић С. (2013). Шумски генетички ресурси, Шумарски факултет Универзитета у Бањој Луци, Бања Лука, Босна и Херцеговина.</p> <p>Крстић, М., (2006): Гајење шума. Шумарски факултет</p> <p>Maunaga, Z. (2012): Prirast šuma. Šumarski fakultet, Banja Luka.</p>		
Weekly Contact Hours:	Lectures: 2	Practical work: 2+0+4
<p>Teaching Methods:</p> <p>Lectures and practical classes</p>		
Knowledge Assessment (maximum of 100 points): 100		

Pre-exam obligations	points	Final exam	points
Active class participation	5	written exam	
Test I and Test II		oral exam	60
Preliminary exam(s)	20	
Seminar(s)	15		

The methods of knowledge assessment may differ; the table presents only some of the options: written exam, oral exam, project presentation, seminars, etc.