

### Specification of subjects in doctoral studies studies

<b>Subject code:</b> ДМ1.1121А
<b>Study program:</b> Forestry
<b>Type and level of studies:</b> Doctoral studies
<b>Subject name:</b> Molecular genetics of forest trees
<b>Teacher (s):</b> Mirjana T. Šijačić- Nikolić, DSc; Snežana D. Mladenović-Drinić, DSc
<b>Subject type:</b> elective
<b>ECTS:</b> 8
<b>Condition:</b>
<b>Subject aim:</b> The subject is adapted to the professional profile of the forestry engineer and represents continuity in acquiring knowledge in the field of Forest genetics, plant breeding and conservation of forest genetic resources. The course aims to introduce the students to the techniques of direct examination of the structure and function of the genome in order to assess the genetic polymorphism within and between populations, provenances, lines or genotypes of forest trees. Acquired knowledge should contribute to the development of forestry as a science and profession on a modern basis.
<b>Subject outcomes:</b> To master the necessary knowledge and skills in the field of molecular genetics as a basis for studying the genetic structure, diversity and differentiation of populations or genotypes of forest trees.