

### Specification of subjects in doctoral studies

<b>Subject code:</b> ДМ2.4121Г
<b>Study program:</b> Technologies, management and design of furniture and wood products – Module 2.4. Machines and apparatuses in wood processing
<b>Type and level of studies:</b> Doctoral studies
<b>Subject name:</b> Vibro-acoustic diagnostics of systems and processes
<b>Teacher (s):</b> Svrzić V. Srđan, DSc; Đurković Marija, PhD
<b>Associates:</b>
<b>Subject type:</b> elective
<b>ECTS:</b> 8
<b>Condition:</b>
<b>Subject aim:</b> Introducing students to methods for indirect measurement of individual process parameters (the example of sawing) and dynamic system conditions, vibration diagnostics theory, relationships between vibrations in the process and the processing system with acoustic emission spectrum, methods for interpreting the obtained spectral graphics and defining types of vibrations in the processing system .
<b>Subject outcomes:</b> Acquiring the necessary knowledge to use the equipment in measuring vibration and acoustic emissions, analyzing the obtained data (in the form of frequency spectra), diagnosing and predicting the state of the processing system based on them.