

<b>Level:</b> master				
<b>Course title:</b> NMR in medical diagnostic				
<b>Status:</b> elective				
<b>ECTS:</b> 9				
<b>Requirements:</b>				
<b>Learning objectives</b> Introducing students to the technique of nuclear magnetic resonance, foundation of this technique and application in medicine.				
<b>Learning outcomes</b> Students obtain knowledge and ability for individual and team scientific research work in medical institutions on nuclear magnetic resonance.				
<b>Syllabus</b>  <i>Theoretical instruction</i> Characteristics of Nuclear Magnetic Resonance applications in medical imaging (MRI) MRI system components; Magnetization and relaxation tissue imaging process and methods, the special features of the MRI, pictures and details of background signal; Time of data collection and optimization procedures, vascular imaging, functional imaging, artifacts, and Security protection when using MRI.  <i>Practical instruction:</i> Exercises, other forms of teaching and student individual and group research exercises.				
<b>Weekly teaching load</b>				Other:
Lectures: 3	Exercises: 1	Other forms of teaching: 1	Student research:	