

<b>Level:</b> PhD				
<b>Course title:</b> Biochemical pharmacology (DSB-607)				
<b>Status:</b> Elective				
<b>ECTS:</b> 15				
<b>Requirements:</b> None				
<b>Learning objectives</b> Education of students in the field of biochemical pharmacology.				
<b>Learning outcomes</b> Knowledge that can be used and applied in research, development and control of the laboratories of pharmaceutical industries, as well as in clinical laboratories.				
<b>Syllabus</b> <i>Theoretical instructions</i> The definition and classification of drugs. Pharmacodynamics and pharmacokinetics of the major groups of drugs. The first phase of drug metabolism through the mixed function oxidase (cytochrome P-450). Factors influencing the metabolism of drugs. Induction and inhibition of enzyme systems. Extrahepatic metabolism of drugs. Clinical significance of drug metabolism; "in vitro" experimental models. Testing of drug metabolism "in vivo" and correlation of metabolic data obtained "in vitro" and "in vivo". Reactions of the second and third phases of drug metabolism.				
<b>Weekly teaching load</b>				Other:  /
Lectures: 5	Exercises:	Other forms of teaching:	Student research: 5	