

Level: Master Academic Studies in Biochemistry				
Course title: Biochemistry of narcotic drugs (IB-523)				
Status: Elective				
ECTS: 5				
Requirements: none				
Learning objectives The goal of the course is to provide students knowledge about the biochemistry of narcotic drugs, by understanding the mechanisms of their action at the molecular level. Furthermore, the goal of the course is to provide knowledge about basic methods and principles for obtaining natural and synthetic narcotic drugs.				
Learning outcomes By the end of this course, students will be able to: explain biochemical mechanisms of action of narcotic drugs and understand basic methods for obtaining narcotic drugs.				
Syllabus <i>Theoretical instruction:</i> Natural and synthetic narcotic drugs structure and properties. Biosynthesis and synthesis of selected narcotic drugs. Biochemical mechanisms of action of narcotic drugs. Target receptors significant for psychoactive and narcotic effect. Significant molecules in dependence therapy. Abuse of narcotic drugs and how to overcome. The importance of narcotic drugs in medicine and pharmacology. <i>Practical instruction:</i> Synthesis and analysis of biochemical metabolites of selected narcotic drugs.				
Weekly teaching load				Other:
Lectures: 2	Exercises: 2	Other forms of teaching:	Student research:	