

<b>Level:</b> master				
<b>Course title:</b> Biochemistry of hormones-selected chapters (IB-514)				
<b>Status:</b> elective				
<b>ECTS:</b> 6				
<b>Requirements:</b> none				
<b>Learning objectives</b> Provide students with extended knowledge of concepts and balanced function of endocrine system. Develop in students the ability to modify the known methods and apply them in solving problems in the field of biochemistry hormones. To enable students to plan and carry out experiments and to critically evaluate the significance of the results.				
<b>Learning outcomes</b> After successful completion of the course the student is able to: <ol style="list-style-type: none"> <li>1. Explain the role of various hormones and tissues under physiological and / or pathological processes.</li> <li>2. Emphasize the importance of certain hormones in the maintenance of homeostasis</li> <li>3. Explain the role of endogenous and exogenous factors in the changes in the biosynthesis and / or function of hormones.</li> <li>4. Critically represent his/her view on the importance of certain hormones and feasibility of use of commercial products for therapeutic or other purposes.</li> <li>5. Choose the relevant scientific literature and prepare a presentation on the topic.</li> <li>6. Modify existing methods, by performing tests to quantify the physiological effects of hormones and critically interpret the results.</li> </ol>				
<b>Syllabus</b> <i>Theoretical instruction</i> Intercellular communication, neuro-endocrine system, regulation of synthesis and secretion of hormones, hormone receptor in the cell and the cell membrane, the target tissues, endocrine, paracrine, autocrine hormones (the origin, structure, types, mechanism of action, target tissues, the physiological effects).				
<b>Weekly teaching load</b>				Other:
Lectures: 2	Exercises: 2	Other forms of teaching:	Student research:	