

Course description

Part 1

General information about the course			
1. Major of study: medicine		2. Study level: unified MSc	
		3. Form of study: intramural	
4. Year: III		5. Semester: V,VI	
6. Course name: Histology I + II			
7. Course status: required			
8. Course objectives			
Introduction to histology			
Ultrastructure of the cell - functional specializations			
Connective tissue - cells, intercellular matrix, bone formation			
Muscle tissue - mechanism of contraction			
Lymphatic system			
Nervous system. Neurogenesis			
Sensory organs - eye			
Transmitters, synapses, receptors			
Cardiovascular system			
Vasculogenesis and angiogenesis			
Digestive system - liver, pancreas			
Endocrine system - organs and DNES			
Urinary system			
Respiratory system			
Male reproductive system			
Female reproductive system			
Structure and function of fetal membranes and placenta			
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Learning outcomes / reference to learning outcomes indicated in (underline as appropriate):			
education standards (Regulation of the Ministry of Science and Higher Education) / Resolution of the			
Senate of the Medical University of Silesia (indicate terms specified in education standards / signs of			
learning outcomes approved by the Resolution of the Senate of the Medical University of Silesia)			
For knowledge student knows and understands:			
knows histological and embryological nomenclature A.W1			
knows cellular structures and their functional specializations A.W4			
knows microarchitecture of tissues, extracellular matrix and organs A.W5			
knows developmental stages of human embryo, organization of placenta and fetal membranes and			
development of individual organs A.W6			
knows the ways of communication between cells, cell and extracellular matrix and pathways intracellular			
signal transduction B.W21			
For skills student can do:			
Can operate optical microscope A.U1			
Using optical microscope can differentiate structures characteristic for particular organs, tissues and cells.			
Can interpret their organization and relations between their structure and function A.U2			
Has ability to use histological nomenclature both in written and spoken form A.U5			
For social competencies student is ready to: has ability for constant self education.			
9. Number of hours for the course		90	10. Number of ECTS points for the course
			7
11. Form of evaluation: exam			

12. Methods of verification and evaluation of learning outcomes		
Learning outcomes	Methods of verification	Methods of evaluation*/ credit
Knowledge	Grade credit – MCQ	*
Skills	Report	*
Competencies	Observation	*

* For exams and grade credits the following evaluation system has been assumed:

Very good (5,0) – the assumed learning outcomes have been achieved and significantly exceed the required level

Better than good (4,5) – the assumed learning outcomes have been achieved and slightly exceed the required level

Good (4,0) – the assumed learning outcomes have been achieved at the required level

Better than satisfactory (3,5) – the assumed learning outcomes have been achieved at the average required level

Satisfactory (3,0) – the assumed learning outcomes have been achieved at the minimum required level

Unsatisfactory (2,0) – the assumed learning outcomes have not been achieved