





TOTAL per year: 60												
	15		30					15				
<p>Educational objectives (max. 6 items)</p> <p>C1. acquaint students with the range of issues dealt with by the contemporary pathology</p> <p>C2. understanding the basic mechanisms of disease entities</p> <p>C3. knowledge of autopsy and dissection techniques</p> <p>C4. ability to associate of the clinical picture and presentations with the features of the macro- and microscopic changes in cells, tissues and organs of the head and neck</p> <p>C5. ability to interpret data from a variety of sources, including the pathology, for efficient diagnosis of diseases</p>												
<p>Education result matrix for module/course in relation to verification methods of the intended education result and the type of class</p>												
Number of course education result	Number of major education result	Student who completes the module/course knows/is able to					Methods of verification of intended education results (forming and summarising)	Form of didactic class <i>**enter the abbreviation</i>				
<b>W 01</b>	<b>C.W25</b>	- Knows the nomenclature of pathologically range of diseases and alteration					<b>Two tests per semester for a class in the form of test questions.</b>	<b>L, AC, PCP</b>				
	<b>C.W26</b>	- familiar with the basic mechanisms of tissue and cell damage;										
	<b>C.W27</b>	-Specifies the course of specific and nonspecific inflammation and regeneration processes of tissues and organs;										
	<b>C.W30</b>	- Knows the issues of specific organ and systems pathology, image macro and microscopic and clinical course of pathological changes within the organs										
<b>U 01</b>	<b>C.U11</b>	- Is able to assess and associate images of tissue and organ damage with clinical signs of disease, medical history and the results of laboratory tests										



K 01		- actively participate in microscopical classes, cooperates with the group during making clinico-pathological diagnosis of diseases		
<p>** L - lecture; SE - seminar; AC – auditorium classes; MC – major classes (non-clinical); CC – clinical classes; LC – laboratory classes; SCM – specialist classes (magister studies); CSC – classes in simulated conditions; FLC – foreign language course; PCP practical classes with patient; PE – physical education (obligatory); VP – vocational practice; SS – self-study, EL – E-learning .</p>				
<p>Please mark on scale 1-5 how the above effects place your classes in the following categories: communication of knowledge, skills or forming attitudes: Knowledge: 5 Skills: 3 Social competences: 2</p>				
<p><b>Student's amount of work (balance of ECTS points)</b></p>				
<p>Student's workload (class participation, activity, preparation, etc.)</p>			<p>Student Workload (h)</p>	
<p>1. Contact hours:</p>			<p>60</p>	
<p>2. Student's own work (self-study):</p>			<p>30</p>	
<p>Total student's workload</p>			<p>90</p>	
<p>ECTS points for module/course</p>			<p>3</p>	
<p>Comments</p>				
<p><b>Content of classes</b> (please enter topic words of specific classes divided into their didactic form and remember how it is translated to intended educational effects)</p>				
<p><b>Lectures</b></p> <ol style="list-style-type: none"> <li>1. General pathology, histopathological examination methods, autopsy rules.</li> <li>2. Genetic, congenital and developmental defects.</li> <li>3. Degenerations and regressive changes.</li> <li>4. Hemodynamic disorders, thromboembolic disease and shock.</li> <li>5. Acute and chronic inflammation.</li> <li>6. Neoplasia: epidemiology, molecular basis of cancer, carcinogenic agents, characteristics of benign and malignant neoplasms, Grading and Staging of tumors, TNM Classification.</li> <li>7. Neoplasia: epithelial and mesenchymal neoplasms.</li> <li>8. Blood vessels and heart pathology.</li> <li>9. Respiratory tract and pulmonary pathology.</li> <li>10. Gastrointestinal tract pathology: esophagus, stomach, bowels, liver and pancreas.</li> <li>11. Urinary tract and kidney pathology.</li> <li>12. Female genital tract and breast pathology.</li> <li>13. Male genital tract pathology.</li> <li>14. Central nervous system pathology.</li> <li>15. Endocrine and skin pathology.</li> </ol>				
<p><b>Seminars</b></p> <ol style="list-style-type: none"> <li>1. Introduction to pathology: the organization of pathology department and histopathological laboratory, principles of taking and procurement of the histopathological/tissue material, method of research:</li> </ol>				



- proceedings of specimens, histochemical and immunohistochemical
2. Degenerations: basic definitions and classifications.
  3. Adaptations, injury and death: apoptosis, necrosis and atrophy.
  4. Circulatory disorders: thrombosis, DIC, ischemia, congestion, edema, hemorrhage, shock.
  5. Inflammation: definition, causes, terminology, divisions, inflammation, acute and chronic.
  6. Tumours: definition, division, tumor growth, the spread of cancer, metastatic disease.
  7. Tumours of epithelial and mesenchymal origin.
  8. Cardiovascular system.
  9. Respiratory tract.
  10. Male and female genital tract and breast.
  11. Kidneys and urinary tract.
  12. The central nervous system and peripheral nerves.
  13. Hematopoietic system and endocrine system.
  14. Musculoskeletal system: bones, joints and muscles.
  15. Pathology of the skin.

#### Practical classes

1. Autopsy classes

#### Clinical Classes

Basic literature (list according to importance, no more than 3 items)

1. Robbins & Cotran Pathologic Basis of Disease, 8th Edition; 2009.
2. Anderson: Pathology, part I and II, 1995-2000.

Additional literature and other materials (no more than 3 items)

1. Lippincott's Illustrated Q&A Review of Rubin's Pathology, 2nd Edition; Lippincott's 2011.

Didactic resources requirements (e.g. laboratory, multimedia projector, other...)

- cytological and histopathological laboratory equipment
- dissecting and autopsy equipment
- microscopes
- seminar room and multimedia slide projector

Preliminary conditions (minimum requirements to be met by the student before starting the module/course)

Basic knowledge of normal and topographical human anatomy.

Basic knowledge of human physiology and pathophysiology.

Basic knowledge of human histology.

Conditions to receive credit for the course (specify the form and conditions of receiving credit for classes included in the module/course, admission terms to final theoretical or practical examination, its form and requirements to be met by the student to pass it and criteria for specific grades)

The condition for passing the course is to obtain a positive assessment of the two tests in the form of test questions.





Grade:	Criteria (only for courses/modules ending with an examination)
Very Good (5.0)	
Good Plus (4.5)	
Good (4.0)	
Satisfactory Plus (3.5)	
Satisfactory (3.0)	
Failing (2.0)	

**Name and address of module/course teaching unit, contact: telephone and e-mail address**

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**Coordinator / Person responsible for module/course, contact: telephone and e-mail address**

prof. dr hab. Agnieszka Hałoń, e-mail: [agnieszka.halon@umed.wroc.pl](mailto:agnieszka.halon@umed.wroc.pl), tel.: 717333961

**List of persons conducting specific classes: full name, degree/scientific or professional title, discipline, performed profession, form of classes.**

Prof. dr hab. Agnieszka Hałoń – L, AC, PCP

Dr n. med. Paweł Gajdzis – AC, PCP

**Date of Syllabus development**

.....20.06.2018.....

**Syllabus developed by**

Prof. dr hab. Agnieszka Hałoń

**Signature of Head of teaching unit**

Prof. dr hab. Michał Jeleń

**Signature of Faculty Dean**

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