

Module card

I. GENERAL INFORMATION	
THE WITELON STATE UNIVERSITY OF APPLIED SCIENCES IN LEGNICA DEPARTMENT of health sciences and physical culture	
Field	Emergency Medical Care
Module title	Pathology
Language of lecture	english
ECTS points	4 points
Preliminary conditions:	Basic knowledge of biology at the secondary school level
II. Education aims	
To acquaint students with the changes of the body leading to disease, in disease and resulting from disease and to form the habit of correct medical thinking. To provide students with knowledge and skills in the scope of pathological processes in human organism	
III. Education outcomes	
The student knows and understands basic concepts of general pathology and pathology of individual body systems The student knows and understands selected issues in organ pathology of the cardiovascular system, respiratory system, digestive system, endocrine system, metabolic system, genitourinary system and nervous system The student knows and understands external and internal pathogens, modifiable and non-modifiable	
IV. EDUCATIONAL METHODS	
Assessment method: credit for evaluation, written colloquia, final exam	
Student workload: 125 hours	
V. MODULE TYPE AND CONTENTS	
Lecture and exercise: Basic concepts of pathology. Definition of disease, classifications of diseases, phases of the course of disease. Biological aspects of organism ageing. Influence of environmental factors on disease formation. Pathological processes: circulatory disorders, retrograde changes, progressive changes, inflammation. Skin pathology; Multiorgan inflammation. Acute phase reactions, Immune system disorders - allergic reactions, immunodeficiencies. Cardiovascular pathology. Pathology of the respiratory system. Pathology of the gastrointestinal tract, liver, pancreas and biliary tract. Renal and urinary tract pathology. Male and female reproductive system disorders. Water-electrolyte and acid-base disorders. Hormonal disorders. Disorders of metabolism. Pathology of the blood and haematopoietic system. Pathology of the musculoskeletal system. Pathology of the nervous system and sensory organs. The role of autopsy and histopathological examinations. Collection and transport of material. Pathological processes. Fundamentals of electrocardiography. Normal and pathological recording - rhythm and conduction disturbances, hypertrophy of heart cavities, ischemia and infarction, electrolyte disturbances Interpretation of spirometry and blood gas tests. Glomerular filtration rate assessment - clearance methods, Cockcroft-Goult formula, MDRD formula. Interpretation of biochemical, coagulological and hormonal tests of peripheral blood. Iatrogenic factors in the onset of a disease.	
VII. ECTS POINT BALANCE SHEET - STUDENT'S WORKLOAD	
Category	Student's workload

Contact hours	31
Participation in lectures	15
Participation in classes, workshops	15
Exam	1
Independent student's work	69
Preparation for the lecture	10
Preparation for the classes, workshops	15
Preparation for the test	15
Preparation for the exam	25
Preparing the project	4
Preparing multimedia presentation	
Total number of hours	100
ECTS points: 4	
VIII. Recommended literature	
1. 2. 3.	