



**48SJ-PBL48**  
**ECTS: 1.00**  
**CYCLE: 2024L**

## Course syllabus - part A Problem Based Learning (PBL) 4

### SUBJECT MATTER CONTENT

#### CLASSES

Analysis 8 classes from diseases of the heart, lungs gastrointestinal tract, endocrinological tract, urinary tract, and blood - practical classes

#### TEACHING OBJECTIVE

Knows theoretical and practical background of internal diseases due to with laboratory tests. Knows and understand newest literature

#### DESCRIPTION OF THE LEARNING OUTCOMES OF THE COURSE IN RELATION TO THE DESCRIPTION OF THE CHARACTERISTICS OF THE SECOND LEVEL LEARNING OUTCOMES FOR QUALIFICATIONS AT LEVELS 6-8 OF THE POLISH QUALIFICATION FRAMEWORK IN RELATION TO THE SCIENTIFIC DISCIPLINES AND THE EFFECTS FOR FIELDS OF STUDY:

##### Symbols for outcomes related to the discipline:

M/NM+++, M/NMA\_P7S\_UW+

##### Symbols for outcomes related to the field of study:

KA7\_KR2+, D.U16.+, M/NM\_E.W40.+,  
M/NM\_D.W18.+, M/NM\_E.W7.+, C.U20.+, K.5.+,  
D.U17.+, B.U10.+, M/NM\_B.W25.+, E.U12.+,  
M/NM\_B.W2.+, B.U7.+, M/NM\_E.W1.+, K.2.+,  
E.U24.+, M/NM\_B.W.29.+

#### LEARNING OUTCOMES:

##### Knowledge:

W1 - The student know and understand the acid-base balance and the buffer action mechanism, and their significance in systemic homeostasis  
W2 - The student know and understand the principles of conducting scientific research, observational and experimental studies, and in vitro tests contributing to the advancement of medicine.

W3 - The student know and understand the relationship between factors disturbing the balance of the biological processes, and physiological and pathophysiological changes

W4 - The student knows and understand rules work in group

W5 - The student knows and understand environmental and epidemiological conditions of the most frequent diseases

W6 - The student knows and understand the theoretical and practical foundations of laboratory diagnostics

W7 - The student knows and understand the causes, symptoms, principles of diagnosis and therapeutic procedure in relation to the most common diseases

##### Skills:

U1 - The student can perform simple functional tests to assess the human organism as a stable regulation system (load and stress tests) and interpret the figures picturing the basic physiological variables

##### Legal acts specifying learning outcomes: 672/2020

**Disciplines:** medical sciences

**Status of the**

**course:**Obligatoryjny

**Group of courses:**B -  
przedmioty kierunkowe

**Code:** ISCED 0912

**Field of study:**Medicine

**Scope of education:**  
**Profile of education:**

General academic

**Form of studies:** full-time

**Level of studies:** uniform  
master's studies

**Year/semester:** 3/6

**Types of classes:** Classes

**Number of hours in  
semester:**Classes: 20.00

**Language of  
instruction:**English

**Introductory subject:**

anatomy,physiology,  
pathophysiology, introduction  
to internal medicine,  
biochemistry

**Prerequisites:** basic  
knowledge from

anatomy,physiology,  
pathophysiology, introduction  
to internal medicine,  
biochemistry

**Name of the organisational  
unit conducting the**

**course:**Katedra Kardiologii i  
Chorób Wewnętrznych

**Person responsible for the  
realization of the course:**dr

n. med. Beata Moczulska

**e-mail:**

beata.moczulska@uwm.edu.pl

**Additional remarks:**

- U2 - The student can take responsibility for furthering own qualifications and sharing knowledge with others
- U3 - The student can use databases, including those available on the Internet, and find the necessary information with the available tools
- U4 - The student can describe the changes in the functioning of the organism in homeostatic distortions, particularly identify its integrated response to physical effort, exposure to high and low temperature, loss of blood or water, sudden verticalisation, and transition from sleep to wakefulness
- U5 - The student can interpret the results of laboratory tests and identify the causes of deviations from the norm
- U6 - The student can critically analyse the medical literature, also in the English language, and draw conclusions
- U7 - The student can conduct differential diagnostics of the most frequent diseases among adults and children

**Social competence:**

- K1 - The student is ready to perceive and recognize his own limitations and to self-assess deficits and educational needs
- K2 - The student is ready to inspire, be a leader and cooperate in an interdisciplinary team
- K3 - The student is ready to be guided by the good of the patient

**TEACHING FORMS AND METHODS:**

Classes(W1;W2;W3;W4;W5;W6;W7;U1;U2;U3;U4;U5;U6;U7;K1;K2;K3;):Practical classes - active discussion ( brain storm)

**FORM AND CONDITIONS OF VERIFYING LEARNING**

**OUTCOMES:**

Classes (Part in the discussion) - Evaluation of the work and cooperation in group 1 -presence on classes, active participation in discussions , knowledge basic issues and reliability and professionalism in the management and communication of patients and their familie -

**BASIC LITERATURE:**

**SUPPLEMENTARY LITERATURE:**



## Detailed description of ECTS credits awarded - part B

**48SJ-PBL48**

**ECTS: 1.00**

**CYCLE: 2024L**

### Problem Based Learning (PBL) 4

The number of ECTS credits awarded consists of:

1. Contact hours with the academic teacher:

- participation in: Classes
- consultation

20.0 h

2.0

Total: 22.0 h.

2. Independent work of a student:

**Prowadzący nie przypisał wszystkich godzin pracy studenta lub przedmiot ma zmienioną ilość godzin i jest ich za dużo, wynik ECTS może być niepoprawny.**

Total: 3.0 h

contact hours + independent work of a student Total: 25.0 h

1 ECTS credit = 25-30 h of an average student's work, number of ECTS credit = 25.0 h : 25.0 h/ECTS = 1.00 ECTS on average: 1.0 ECTS

- including the number of ECTS credits for contact hours with the direct participation of an academic teacher: 0,00 ECTS points,

- including the number of ECTS credits for hours of independent work of a student: