



COURSE DESCRIPTION CARD - SYLLABUS

Course name

Propedeutics of medical sciences

Course

Field of study

Biomedical engineering

Area of study (specialization)

-

Level of study

First-cycle studies

Form of study

full-time

Year/Semester

4 / 7

Profile of study

general academic

Course offered in

Polish

Requirements

compulsory

Number of hours

Lecture

30

Laboratory classes

0

Other (e.g. online)

0

Tutorials

0

Projects/seminars

0

Number of credit points

2

Lecturers

Responsible for the course/lecturer:

dr n. med. Adam M. Pogorzala

Responsible for the course/lecturer:

e-mail: adam.pogorzala@put.poznan.pl

Prerequisites

- Basic knowledge from biology
- Logical thinking, using information obtained from the library and the internet.
- Understanding the need to learn and acquire new knowledge.



Course objective

learning about selected medical sciences; preliminary familiarization with conditions of health and illness proceedings with the health care system; with medicine as a science and practical activity.

Course-related learning outcomes

Knowledge

1. Student should describe the goals and the division of medicine according to clinical criteria.
2. Student should describe the organization of health protection, definitions of health and illness.
3. Student should describe the causes of diseases, principles of diagnosis, treatment and rehabilitation.

Skills

1. Student can acquire information on the use of medical knowledge.
2. Student is able to assess the medical conditions in the field of biomedical engineering.
3. Student is able to integrate the information obtained, interpret it and draw conclusions.

Social competences

1. Student is aware of the importance of non-technical aspects of engineering activities.
2. Student is able to set priorities for the implementation of a specific task.

Methods for verifying learning outcomes and assessment criteria

Learning outcomes presented above are verified as follows:

Forming rating:

Based on answers to questions concerning the material discussed in previous lectures

Summary rating:

credit on the basis of a colloquium

Programme content

1. Objectives of medicine. Division of medicine according to clinical criteria, medical specialties.
2. Health and disease issues. Individual and population health. Basic terms in the field organization of medical activities.
3. Factors affecting health. Health indicators. Responsibility for health.
 4. Causes of diseases. Prevention of diseases and health promotion. Basic principles of diagnostics medical attention.
5. Principles of therapeutic treatment. Division of therapy according to clinical criteria.



6. Methods and techniques for counteracting pain, bleeding and infections.
7. The rules of general and local anesthesia. Principles of asepsis and antisepsis, supply wounds, transplantation of cells, tissues and organs, along with selected legal aspects.
8. Organization of health protection in Poland and in the world.
9. Main and auxiliary functions of health protection.
10. Barriers of access to medical activities. State tasks in medicine.

Teaching methods

1. Lecture: multimedia presentation.

Bibliography

Basic

1. Gut R.W., Propedeutyka medycyny, PZWL, Warszawa 1982.

Additional

1. Waszyński E. (red.) Medycyna. Wprowadzenie do studiów lekarskich. Atla 2, Wrocław 2003.

Breakdown of average student's workload

	Hours	ECTS
Total workload	50	2
Classes requiring direct contact with the teacher	30	1
Student's own work (literature studies, preparation for lectures, preparation for tests) ¹	20	1

¹ delete or add other activities as appropriate