

SYLLABUS  
concerning the cycle of education 2019-2025  
(date range)

**1.1. BASIC INFORMATION CONCERNING THIS SUBJECT / MODULE**

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Subject / Module                           | <b>Surgery</b>                               |
| Course code / module *                     | <b>Ch/F</b>                                  |
| Faculty of (name of the leading direction) | <b>Medical College of Rzeszów University</b> |
| Department Name                            | <b>Medical College of Rzeszów University</b> |
| Field of study                             | <b>medical direction</b>                     |
| Level of education                         | <b>uniform master's studies</b>              |
| Profile                                    | <b>practical</b>                             |
| Form of study                              | <b>stationary / extramural</b>               |
| Year and semester                          | <b>year VI, semester XI</b>                  |
| Type of course                             | <b>obligatory</b>                            |
| Coordinator                                | <b>Prof. J Olędzki</b>                       |
| First and Last Name of the Teacher         |                                              |

\* - According to the resolutions of the Faculty of Medicine

**1.2. Forms of classes, number of hours and ECTS**

| Lecture | Exercise | Conversation | Laboratory | Seminar | ZP | Practical | Self-learning | Number of points ECTS |
|---------|----------|--------------|------------|---------|----|-----------|---------------|-----------------------|
| -       | 120      | -            | -          | -       | -  | -         | 80            | <b>8</b>              |

**1.3. The form of class activities**

☒ classes are in the traditional form

☐ classes are implemented using methods and techniques of distance learning

**1.4. Examination Forms / module (exam, credit with grade or credit without grade)**

**2. REQUIREMENTS**

Knowledge in general surgery from semester 7, 8, 9 and 10

**3. OBJECTIVES, OUTCOMES, AND PROGRAM CONTENT USED IN TEACHING METHODS**

### 3.1. Objectives of this course/module

|    |                                                                                                                                                                                                                           |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C1 | The acquisition of practical skills in the field of thoracic and general surgery, cardiosurgery and transplantology                                                                                                       |
| C2 | Acquiring the ability to examine patients with abdominal diseases and performing basic surgical operations, i.e. catheterization of the bladder, dressing changes, removal of seams, drains, probing of the stomach, etc. |
| C3 | Assistance during surgery                                                                                                                                                                                                 |
| C4 | Preparation of the operating room and local anesthesia for the operative area;                                                                                                                                            |
| C5 | Understanding the most common complications of surgical treatment and the principles of their prevention.                                                                                                                 |

### 3.2 OUTCOMES FOR THE COURSE / MODULE (TO BE COMPLETED BY THE COORDINATOR)

| EK (the effect of education) | The content of the learning effect defined for the subject (module)                                                                                                                                                                                                                                                                                                                                            | Reference to directional effects (KEK) |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| EK_01                        | knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment in relation to the most common diseases requiring surgical intervention, taking into account the distinctiveness of children's age, in particular:<br><br>a) acute and chronic diseases of the abdominal cavity,<br>b) chest diseases,<br>c) diseases of limbs and head,<br>d) bone fractures and organ injuries | F.W1.                                  |
| EK_02                        | knows selected issues in pediatric surgery, including traumatology and otorhinolaryngology, defects and acquired diseases being an indication for surgical treatment in children                                                                                                                                                                                                                               | F.W2.                                  |
| EK_03                        | knows the rules for the qualification and performance of basic surgical procedures and invasive diagnostic and therapeutic procedures                                                                                                                                                                                                                                                                          | F.W3.                                  |
| EK_04                        | knows the principles of perioperative safety, patient preparation for surgery, general anesthesia, local and controlled sedation                                                                                                                                                                                                                                                                               | F.W4.                                  |
| EK_05                        | knows in a basic scope the issues of surgical transplantology, indications for transplantation of irreversibly damaged organs and tissues and procedures related to this                                                                                                                                                                                                                                       | F.W14.                                 |
| EK_06                        | Assists with typical surgery, can prepare the operating field and anesthetize the local surgical area                                                                                                                                                                                                                                                                                                          | F.U1.                                  |
| EK_07                        | uses basic surgical tools                                                                                                                                                                                                                                                                                                                                                                                      | F.U2.                                  |

|       |                                                                                                                                                                  |       |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|
| EK_08 | applies to the principles of aseptic and antisepsis                                                                                                              | F.U3. |
| EK_09 | can provide a simple wound, set up and change a sterile surgical dressing                                                                                        | F.U4. |
| EK_10 | can examine nipples, lymph nodes, thyroid gland and abdominal cavity in the aspect of an acute abdomen, as well as perform a finger examination through the anus | F.U6. |
| EK_11 | He is able to establish and maintain a deep and respectful contact with the patient                                                                              | K.01. |
| EK_12 | He is guided by the good of the patient, placing them in the first place                                                                                         | K.02. |
| EK_13 | Respects medical confidentiality and patient's rights                                                                                                            | K.03. |

### 3.3 CONTENT CURRICULUM (filled by the coordinator)

#### A. Exercises

| <b>Treści merytoryczne</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Practical teaching in the field of General Surgery:</p> <ul style="list-style-type: none"> <li>a) medical history, physical examination, differential diagnosis</li> <li>b) interpretation of laboratory tests</li> <li>c) assessment of the patient's condition</li> <li>d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations</li> <li>e) performing medical procedures and procedures</li> <li>f) undertaking preventive and curative measures in the event of a threat to life</li> <li>g) keeping medical records</li> </ul> |
| <p>Practical teaching in the field of chest surgery:</p> <ul style="list-style-type: none"> <li>a) medical history, physical examination, differential diagnosis</li> <li>b) interpretation of laboratory tests</li> <li>c) assessment of the patient's condition</li> <li>d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations</li> <li>e) performing medical procedures and procedures</li> <li>f) undertaking preventive and curative measures in the event of a threat to life</li> <li>g) keeping medical records</li> </ul>   |
| <p>Practical teaching in the field of cardiac surgery:</p> <ul style="list-style-type: none"> <li>a) medical history, physical examination, differential diagnosis</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                               |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| b) interpretation of laboratory tests<br>c) assessment of the patient's condition<br>d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations<br>e) execution of procedures and medical procedures<br>f) undertaking preventive and curative measures in the event of a threat to life<br>g) keeping medical records                                                                                                                           |
| Practical teaching in the field of vascular surgery:<br>a) medical history, physical examination, differential diagnosis<br>b) interpretation of laboratory tests<br>c) assessment of the patient's condition<br>d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations<br>e) performing medical procedures and procedures<br>f) undertaking preventive and curative measures in the event of a threat to life<br>g) keeping medical records |
| Practical teaching in the field of Trauma:<br>a) medical history, physical examination, differential diagnosis<br>b) interpretation of laboratory tests<br>c) assessment of the patient's condition<br>d) planning of diagnostic, prophylactic and therapeutic procedures, specialist consultations<br>e) performing medical procedures and procedures<br>f) undertaking preventive and curative measures in the event of a threat to life<br>g) keeping medical records           |

### 3.4 TEACHING METHODS

**Exercises:** working with the patient, analyzing diagnostic tests

**Student's own work:** work with a book

## 4 METHODS AND EVALUATION CRITERIA

### 4.1 Methods of verification of learning outcomes

|                  |                                                                                                                                  |                 |
|------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| Symbol of effect | Methods of assessment of learning outcomes (Eg.: tests, oral exams, written exams, project reports, observations during classes) | Form of classes |
|------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------|

|                                                                      |                                                                                                                                       |           |
|----------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------|
| EK_01<br>EK_02<br>EK_03<br>EK_04<br>EK_05                            | Written or oral exam                                                                                                                  |           |
| EK_06<br>EK_07<br>EK_08<br>EK_09<br>EK_10<br>EK_11<br>EK_12<br>EK_13 | credit with the grade based on the student's observation including:<br><br>- attendance<br><br>- implementation of commissioned tasks | Exercises |

#### 4.2 Conditions for completing the course (evaluation criteria)

##### **Written or oral exam.**

Evaluation criteria

5.0 - has knowledge of the education content at the level of 93% -100%

4.5 - has knowledge of the content of education at the level of 85% -92%

4.0 - has knowledge of the content of education at the level of 77% -84%

3.5 - has knowledge of the content of education at the level of 69% -76%

3.0 - has knowledge of the content of education at the level of 60% -68%

2.0 - has knowledge of the educational content below 60%

##### **Exercises - practical clinical teaching**

Daily clinical assessment (evaluation of the procedure for each procedure)

Single direct observation (observation while receiving one patient)

Long-term observation (summary assessment of many skills for a long time)

Evaluation criteria

5.0 - has knowledge of the education content at the level of 93% -100%

4.5 - has knowledge of the content of education at the level of 85% -92%

4.0 - has knowledge of the content of education at the level of 77% -84%

3.5 - has knowledge of the content of education at the level of 69% -76%

3.0 - has knowledge of the content of education at the level of 60% -68%

2.0 - has knowledge of the educational content below 60%

#### 5. Total student workload required to achieve the desired result in hours and ECTS credits

|          |                      |
|----------|----------------------|
| Activity | Hours / student work |
|----------|----------------------|

|                                                     |     |
|-----------------------------------------------------|-----|
| Hours of classes according to plan with the teacher | 120 |
| Preparation for classes                             | 30  |
| Participation in the consultations                  | 2   |
| The time to write a paper / essay                   | -   |
| Preparation for tests                               | 50  |
| Participation in colloquia                          | 1   |
| Other (e-learning)                                  | -   |
| SUM OF HOURS                                        | 203 |
| TOTAL NUMBER OF ECTS                                | 8   |

#### 6. TRAINING PRACTICES IN THE SUBJECT / MODUL

|                                   |   |
|-----------------------------------|---|
| Number of hours                   | - |
| Rules and forms of apprenticeship | - |

#### 6. LITERATURE

##### READING:

1. Bradbury A.W, Forsythe.L.RJ., Garden O.J., Parks R.W.. „Chirurgia”. Podręcznik dla studentów, wyd. I polskie, red. Borówka A., Dziak A., Kołodziej J., Popiela T., Szmidt J., Zembala M., Ząbek M., Wydawnictwo Urban & Partner, Wrocław 2009.
2. Noszczyk W.. „Chirurgia repetytorium”. Wyd. I, Wydawnictwo Lekarskie PZWL, Warszawa 2009.
3. Czernik J. (red.): Chirurgia Dziecięca. PZWL, W-wa 2005.
4. Wagner A A.: Chirurgia dziecięca – Poradnik dla lekarzy pierwszego kontaktu. PZWL, W- wa, 2003.
5. Noszczyk W.: Chirurgia repetytorium . PZWL - Warszawa 2009
6. Noszczyk W.: Chirurgia. PZWL - Warszawa 2005
7. Pączek L., Mucha K., Foroniewicz B. (red.), Transplantologia praktyczna. Tom 1.Odrzucanie przeszczepu. Wydawnictwo Czelej 2008.
8. Pączek L., Foroniewicz B., Mucha K. (red.), Transplantologia praktyczna. Tom 2.Nowotwory po przeszczepieniu narządów. Wydawnictwo Naukowe PWN 2009.
9. Nutbeam T., Daniels R., Procedury zabiegowe, PZWL, 2011.
10. Theresa Campo, Keith Lafferty , Stany nagłe. Podstawowe procedury zabiegowe.

Acceptance Unit Manager or authorized person