

SYLLABUS  
concerning the cycle of education 2021-2027  
(date range)

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

|                                            |                                              |
|--------------------------------------------|----------------------------------------------|
| Subject / Module                           | <b>Urology</b>                               |
| Course code / module *                     | <b>Ur - 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 V, semester IX</b>                   |
| Type of course                             | <b>Clinical clinical sciences</b>            |
| Coordinator                                | <b>Dr hab. Zbigniew Jablonowski</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 |
|---------|----------|--------------|------------|---------|----|-----------|---------------|-----------------------|
| 15      | 30       | -            | -          | -       | -  | -         | 15            | 2                     |

**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**

News in the field of anatomical structure of the urinary tract and its functioning.

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

### 3.1. Objectives of this course/module

|    |                                                                                                                                   |
|----|-----------------------------------------------------------------------------------------------------------------------------------|
| C1 | Getting acquainted with theoretical and practical basics in the field of the most important diseases of the genitourinary organs. |
| C2 | Teaching assistant at typical urological procedures.                                                                              |

### 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 the rules for the qualification and performance of basic surgical procedures and invasive diagnostic and therapeutic procedures   | F.W3.                                  |
| EK_02                        | can assess the indications for performing suprapubic puncture and participate in its implementation                                     | F.U23.                                 |
| EK_03                        | Assists with typical urological procedures (diagnostic and therapeutic endoscopy of the urinary system, lithotripsy, prostate puncture) | F.U24.                                 |
| EK_04                        | can establish and maintain a deep and respectful contact with the patient                                                               | K.01.                                  |

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

#### A. Lectures

| Course contents                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Organizational and introductory classes. Familiarizing students with problems, pass criteria.                                                                |
| Diagnostic imaging of kidneys, upper and lower urinary tract                                                                                                 |
| Urinary calculus with regard to modern treatment methods: ESWL, PCNL, URS.                                                                                   |
| Functional disturbances of micturition, diagnosis and classification of functional disorders of the lower urinary tract, the problem of not receiving urine. |
| Indications for performing urodynamic tests. Directing the patient to a urodynamic study                                                                     |
| Drenching in children, Treatment of stress urinary incontinence.                                                                                             |
| Congenital defects of the kidneys and genitourinary organs                                                                                                   |
| Male infertility and erectile dysfunction.                                                                                                                   |
| Urgent cases                                                                                                                                                 |

## B. Exercises

|                                                                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------|
| <b>Course contents</b>                                                                                                          |
| Organizational and introductory classes. Familiarizing students with issues, pass criteria.                                     |
| Urological examination. Interview and physical examination of the kidneys, bladder, penis, scrotum and testes, gland, prostate) |
| Diagnostic imaging of kidneys, upper and lower urinary tract                                                                    |
| Functional micturition disorders                                                                                                |
| Congenital defects of the kidneys and urogenital organs                                                                         |
| Injuries of the kidneys and urogenital organs                                                                                   |
| Cancer of the kidneys and organs of the genitourinary system                                                                    |
| Diseases of the prostate gland                                                                                                  |
| Urolithiasis                                                                                                                    |
| Infections of the kidneys and urinary tract                                                                                     |
| Male infertility                                                                                                                |
| Erectile dysfunction                                                                                                            |
| Urological instruments                                                                                                          |
| Basic urological procedures (diagnostic and therapeutic endoscopy of the urinary system, lithotripsy, prostate puncture)        |
| Pass a subject                                                                                                                  |

### 3.4 TEACHING METHODS

**Lecture:** multimedia presentation.

**Exercises:** multimedia presentation, case analysis

**Student's own work:** work with a book, work with anatomical atlas

## 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           | Oral or written test                                                                                                             | Lecture         |
| EK_01            | Oral or written test of a given batch of material                                                                                | Exercises       |

|       |                                                                             |           |
|-------|-----------------------------------------------------------------------------|-----------|
| EK_02 | Practical credit - case analysis and active participation during puncturing | Exercises |
| EK_03 | Practical credit - active participation in typical urological procedures    | Exercises |
| EK_04 | Observations during classes                                                 | Exercises |

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

##### **Lectures:**

1. test pass and open questions or oral test:

A: Questions in the field of messages to remember;

B: Questions in the field of speech to understand;

C: Solving a typical written task;

D: Solving an atypical writing task;

- for insufficient solution of tasks only from areas A and B = grade 2.0

- for solving tasks only from areas A and B, the possibility of obtaining max. rating 3.0

- for solving tasks from the area A + B + C, the possibility of obtaining max. evaluation 4.0

- for the solution of tasks in the area A + B + C + D, the possibility of obtaining a rating of 5.0

##### **Knowledge assessment [EK\_01]:**

Written test

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:**

1. full participation and activity in the exercises

2. written partial credits

There are unannounced tests from the last three classes.

##### **Knowledge assessment [EK\_01]:**

Written test

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%

**Skill assessment [EK\_02, EK\_03]**

5.0 - the student actively participates in classes, is well prepared, has a very good knowledge of theoretical and practical in the field of urological diseases, assists with typical urological procedures

4.5 - the student actively participates in the classes, has a good degree of theoretical and practical knowledge in the field of urological diseases, assists with typical urological procedures

4.0 - the student actively participates in the classes, is improved, has acquired theoretical and practical knowledge in the field of urological diseases to a good extent, assists with typical urological procedures

3.5 - the student participates in classes, his scope of preparation does not allow for a comprehensive presentation of the discussed problem, he has acquired theoretical knowledge sufficiently

and practical in the field of urological diseases, assisting in typical urological procedures, but it is often corrected

3.0 - the student participates in the classes, has sufficiently acquired theoretical knowledge and practical in the field of urological diseases, assisting in typical urological procedures, however, it is often corrected and makes many mistakes

2.0 - the student passively participates in classes, the statements are incorrectly substantive, theoretical and practical knowledge in the field of urological diseases is insufficient, can not assist with typical urological procedures

**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 | 45                   |
| Preparation for classes                             | 15                   |
| Participation in the consultations                  | 2                    |
| The time to write a paper / essay                   | -                    |
| Preparation for tests                               | -                    |
| Participation in colloquia                          | -                    |
| Other (e-learning)                                  | -                    |
| SUM OF HOURS                                        | <b>62</b>            |

|                      |   |
|----------------------|---|
| TOTAL NUMBER OF ECTS | 2 |
|----------------------|---|

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

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

**6. LITERATURE**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>READING:</b></p> <ol style="list-style-type: none"> <li>1. Podręcznik urologii, Diagnostyka i leczenie Siroky Mike B., Oates Robert D., Babayan Richard K. Czelej, 2006</li> <li>2. Uroinekologia praktyczna ,(red.) Rechberger Tomasz, BiFolium, 2007</li> <li>3. Urologia, Podręcznik dla studentów medycyny (red.) Borkowski Andrzej, PZWL, 2008</li> </ol>                                                                                                                                                                                                                                                                                                                                                                           |
| <p>Additional literature:</p> <ol style="list-style-type: none"> <li>1. Atlas laparoskopii urologicznej (red.) Chłosta Piotr, Słojewski Marcin Polskie Towarzystwo Urologiczne, 2008</li> <li>2. Atlas urodynamiki Blaivas Jerry, Chancellor Michael, Weiss Jeffrey, Verhaaren Michael, MediPage, 2008</li> <li>3. Łagodny rozrost gruczołu krokowego Kirby Roger S., McConnell John D. Via Medica, 2003</li> <li>4. Nietrzymanie moczu u dzieci i dorosłych Paruszkiewicz Grzegorz, Gidian Danuta Borgis, 2003</li> <li>5. Nowotwory i torbiele nerek (red.) Borkowski Andrzej, Czaplicki Maciej PZWL, 2002</li> <li>6. Wysiłkowe nietrzymanie moczu u kobiet Villet Richard, Salet-Lizee Delphine, Zafiropulo Maryline PZWL, 2003</li> </ol> |

Acceptance Unit Manager or authorized person