

<b>Subject name</b> <b>Urology</b>	<b>ECTS Code</b>																
<b>Name of unit teaching the subject</b> <b>THE ZBIGNIEW RELIGA FACULTY OF MEDICAL SCIENCES IN ZABRZE, THE UNIVERSITY OF TECHNOLOGY IN KATOWICE</b>																	
<b>Studies</b>																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Field of study</th> <th style="width: 25%;">degree</th> <th style="width: 25%;">mode</th> <th style="width: 25%;">major</th> <th style="width: 25%;">specialization</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">medical</td> <td style="text-align: center;">Uniform Master's</td> <td style="text-align: center;">stationary</td> <td></td> <td></td> </tr> </tbody> </table>	Field of study	degree	mode	major	specialization	medical	Uniform Master's	stationary									
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medical	Uniform Master's	stationary															
<b>Surname of instructor (instructors)</b>																	
<b>Type of class, method of implementation and specified number of hours</b>	<b>Amount of ECTS points</b>																
<b>A. Type of class</b> <ul style="list-style-type: none"> <li>• <b>lecture</b>,</li> <li>• exercise classes,</li> <li>• <b>clinical exercise classes</b></li> <li>• seminars,</li> <li>• design classes</li> <li>• laboratories,</li> <li>• lectureship,</li> <li>• diploma seminar,</li> <li>• professional internship.*</li> </ul> <p>* mark where applicable</p>	<b>Description of awarding ECTS points:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Activity</th> <th style="width: 30%;">Student workload</th> </tr> </thead> <tbody> <tr> <td>Participation in lectures</td> <td style="text-align: center;">10 hours</td> </tr> <tr> <td>Participation in practical classes</td> <td style="text-align: center;">30 hours</td> </tr> <tr> <td>Preparation for practical classes and colloquiums</td> <td style="text-align: center;">5 hours</td> </tr> <tr> <td>Examination preparation</td> <td style="text-align: center;">5 hours</td> </tr> <tr> <td>Consultations</td> <td style="text-align: center;">5 hours</td> </tr> <tr> <td><b>Total number of hours</b></td> <td style="text-align: center;">55 hours / 30</td> </tr> <tr> <td><b>Amount of ECTS points per module</b></td> <td style="text-align: center;"><b>1.5ETCS</b></td> </tr> </tbody> </table>	Activity	Student workload	Participation in lectures	10 hours	Participation in practical classes	30 hours	Preparation for practical classes and colloquiums	5 hours	Examination preparation	5 hours	Consultations	5 hours	<b>Total number of hours</b>	55 hours / 30	<b>Amount of ECTS points per module</b>	<b>1.5ETCS</b>
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<b>B. Amount of hours in accordance with the approved curriculum</b>  10h of lectures + 30h of clinical exercise classes																	
<b>Didactic cycle</b> <b>10th semester</b>																	
<b>Subject status</b>	<b>Language of instruction</b>																
<ul style="list-style-type: none"> <li>• <b>mandatory</b> / facultative</li> </ul>	Polish																
<b>Didactic methods</b>	<b>Forms and methods of passing and general grading criteria or examination requirements</b>																
Demonstration of clinical cases Demonstrations with the use of a computer Case analysis Didactic discussion Lectures with slides and presentation of clinical cases Ultrasound imaging Radiography imaging Classes at the patient's bedside Classes in a treatment room Classes in the operating block Classes on urology training simulators	<b>A. Method of passing</b> <ul style="list-style-type: none"> <li>• examination</li> <li>• <b>passing with a grade*</b></li> </ul> <p>* mark where applicable</p> <hr/> <b>B. Forms of passing:</b> <ul style="list-style-type: none"> <li>• written examination: test / with open questions (exercises)/longer written statement</li> <li>• oral examination</li> <li>• <b>oral assessment/colloquium</b></li> <li>• completion of a semester assignment: preparation of a design or presentation/conducting research and presenting its results(written/oral)/completion of a specified practical work</li> <li>• <b>agreeing on a passing grade based on partial grades received during the course of the semester*</b></li> </ul> <p>* mark where applicable</p>																

**C. Basic grading criteria**

Evaluating participation in exercise classes, evaluating preparation for classes, constant observation, partial credit, oral, written, receiving credit for practical classes, oral examination

**Definition of preparatory subjects and initial requirements**

Familiarity with the anatomy of the genitourinary system. Basis of the pathophysiology of diseases of the urinary tract. Familiarity with the basis of pharmacology and the drugs used in urology. Principles of the procedure of catheterization of the urinary bladder. Basic knowledge about the monitoring of the vital functions and familiarity with the principles of resuscitation

**Subject aim**

Acquiring basic knowledge in urology  
 Learning and becoming familiar with diagnostic methods used in urology  
 Becoming familiar with the instruments and equipment used in urology  
 Acquiring the knowledge and practical abilities about medical emergencies in urology  
 Acquiring the knowledge and practical abilities to treat urinary tract injuries  
 Becoming familiar with diagnosis of early symptoms of cancers of the urinary tract and methods of treatment

**Curriculum**

Lecture content: introduction to urology – basis (W1-W5, U3, U5-U6), Medical emergencies in urology, (W1-W5, U4-U6) Cancers in urology, Benign prostatic hyperplasia, Urinary incontinence, Infections of the urinary tract, kidney stone disease (W1-W5)

Exercise class content: Practical classes at the patient's bedside. Classes in the treatment room. Assisting with procedures on the operating block. Classes in the urodynamic workshop. (W1-W5, U1-U9)

**Literature**

Urologia. Podręcznik dla studentów medycyny. Andrzej Borkowski, Warszawa 2006  
 Podstawy urologii: podręcznik dla studentów medycyny i lekarzy pierwszego kontaktu. M. Fryczkowski Katowice 2009  
 O.J. Garden et al. Chirurgia. Podręcznik dla studentów. 2009  
 European Association of Urology Guidelines 2018 Edition – [www.uroweb.org/guidelines](http://www.uroweb.org/guidelines)

**Educational effects:**

Effect no	Description of an educational effect	Reference to field of study related effects
<b>Knowledge:</b>		
W1	Knows and understands the causes, symptoms, principles of diagnosis and therapeutic treatment regarding the most common diseases requiring urologic intervention	F.W1
W2	Knows the principles of qualifying a patient for basic surgical and invasive diagnosis and therapeutic procedures in urology	F.W3
W3	Knows the most common complications of the above-mentioned interventions and procedures	F.W4
W4	Is familiar with the contemporarily used imaging examinations, especially is familiar with: a. the radiologic symptomatology of the basic urological diseases	F.W10

	b. instrumental methods and imaging techniques used to perform medicinal procedures c. indications and contraindications in preparing patients for individual types of imaging examinations and contradictions to using contrast agents				
W5	Knows the principles of perioperative safety, preparing the patient for surgery, administering general and local anesthesia and controlled sedation	F.W5			
<b>Abilities:</b>					
U1	Assists with a typical surgical procedure can prepare the operating field and administer local and general anesthesia	F.U1			
U2	Uses basic surgical instruments	F.U2			
U3	Follows the principles of asepticism and antisepticism	F.U3			
U4	Can treat a simple wound, put on and change a sterile bandage	F.U4			
U5	Can monitor the postoperative period based on basic life parameters	F.U12			
U6	Can evaluate the recommendations for suprapubic catheter and assist with it	F.U22			
U7	Can perform the basic medical procedures and interventions including: urinary bladder catheterization for women and men, nasogastric intubation, gastric lavage, enema,  b. monitoring life parameters with the use of a cardiomonitor pulse oximetry	E.U29			
U8	Assists with typical urologic procedures (diagnostic and therapeutic endoscopy of the urinary tract, lithotripsy, prostate biopsy)	F.U23			
U9	Can examine the nipples, lymph nodes, thyroid gland, and the abdominal cavity as far as acute abdomen and also perform rectal examination	F.U6			
<b>Social competencies:</b>					
K1	Can establish and maintain a deep, full of respect contact with the patient				
K2	Put the good of the patient above everything else				
K3	Protects patient confidentiality and patient rights				
K4	Is aware of his own limitation and the need for constant learning				
<b>Methods used in the verification of educational effects</b>					
<b>Educational effect</b>	<b>Type of grade</b>				
	<b>colloquiums</b>	<b>Solving problems during exercise classes</b>	<b>Solving problems in groups</b>	<b>Oral/practical examination</b>	<b>Written examination</b>
W1-W5	X			X	X
U1		X		X	X
U2		X		X	X
U3		X		X	X
U4		X		X	X
U5		X		X	X
U6		X		X	
U7		X		X	
U8		X		X	
U9		X		X	

Practical test regarding the abilities to:

- diagnose the causes, symptoms, principles of diagnosis and therapeutic treatment in case of the most common urologic diseases
- urinary bladder catheterization for men and women (with the use of a simulator)

<b>Criteria of evaluating educational effects</b>					
<b>Educational effect</b>	<b>For a grade of 3</b>	<b>For a grade of 3.5</b>	<b>For a grade of 4</b>	<b>For a grade of 4.5</b>	<b>For a grade of 5</b>
<b>W1-W5</b>	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
<b>U1</b>	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
<b>U2</b>	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
<b>U3</b>	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
<b>U4</b>	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
<b>U5</b>	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
<b>U6</b>	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
<b>U7</b>	Exhibits knowledge of the educational content on a	Exhibits knowledge of the educational content on a	Exhibits knowledge of the educational content on a	Exhibits knowledge of the educational content on a	Exhibits knowledge of the educational content on a level of 93%-100%

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<b>U8</b>	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%
<b>U9</b>	Exhibits knowledge of the educational content on a level of 60%-69%	Exhibits knowledge of the educational content on a level of 70%-76%	Exhibits knowledge of the educational content on a level of 77%-84%	Exhibits knowledge of the educational content on a level of 85%-92%	Exhibits knowledge of the educational content on a level of 93%-100%