

MED 5003–Urology

Course Name	Code	Semester	Type of course	Theory (hours)	Group work (hours)	ECTS
Urology	MED 5003	IX	Mandatory	25	46	5
Faculty, the educational program and education level	Faculty of Medicine, one-cycle Educational Program “Medicine”					
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Educational course format	Lecture Group Work					
Educational course Loading	<p>Total: 150 acad. hours Contact hours: 75 h, that includes:</p> <ol style="list-style-type: none"> 1. Lecture – 25 h 2. Team work – 46 h 3. Midterms – 2 h 4. Final exam -2 h <p>Independent work – 75 h</p>					
Prerequisites	MED 2008 - Urogenital system disorders					
The purpose (s) of tutorial course/modules	The learning course aims to give students a deep and thorough knowledge of the urogenital system pathology about what she will give the opportunity to recognize excretory system organs diseases, to conduct the urological examinations, to evaluate the urological diseases symptoms and signs, to learn laboratory and radiological diagnostic methods and primary treatment tactics, support the ambulance-emergency patients (urological) and determine treatment approaches.					
Teaching and learning methods	<p>Lecture - Face-to-Face; verbal contact, slides, for the lecture will be provided</p> <p>Demonstration –models, simulators, X-rays pictures, slides and other visual aids;</p> <p>Abstract preparation and presentation in group with the following discussion and analysis of it;</p>					

	<p>Discussion – questions and answers, answers analysis supported with practical facts;</p> <p>Analyses and synthesis –detailed discussion of aimed problem, assessment of each others point of view;</p> <p>Practical skills on the base urologic department of clinic: clinical pictures, diagnostics and treatment of urogenital system diseases and traumas;</p> <p>Brief-inquire –short questions and answers</p> <p>Work with additional literature: urologic issues and internet information technology sources;</p> <p>Consultation –individual support work with students (weekly)</p>
<p>Assessment criteria</p>	<p>Maximum score- 100:</p> <p>1. Midterm assessment -60</p> <p>1.1. Attendance -10 score</p> <p>1.2. Activity – 30 score:</p> <p>1.2.1. Practical skills 20 scores;</p> <p>1.2.2. Report -10 scores;</p> <p>1.3. Midterm Exam – 20 scores</p> <p>Minimal score of midterm assessment (for final exam) – is 11.</p> <p>Abstract preparation criteria (10 scores - max.):</p> <p>1. Actuality of appointed problem – 2 scores;</p> <p>2. Literature data’s observation in the frame of subject -2scores;</p> <p>3. Conclusions coherence – 2 scores;</p> <p>4. Writing culture – 2 scores</p> <p>5. The presented matter’s visual and technical aspects - 2 scores;</p> <p>6. Accuracy and reliability of indicated references and literature sources –2 scores;</p> <p>1.3. Midterm Exam – 20 scores</p> <p>Written test -20 question, 1 score for each – max. 20;</p> <p>Minimal scores of midterm assessment (for final exam) – is 11.</p> <p>2. Final Exam -40</p> <p>3. Final Exam -40 scores</p> <p>Is held in the written test form (test consists of 40 questions, each question is rated as 1 score). The final exam would accounted as passed in case of maximum 70% or more ($40 \times 70 / 100 = 28$ scores).</p> <p>Credit will be given to the student if he has collected at minimum 51 scores out of 100.</p> <p>Student’s assessment has to be done in the following way:</p> <p>Positive rate:</p> <ul style="list-style-type: none"> • (A) Excellent- 91 or more scores; • (B) Very Good- 81-90 scores; • (C) Good- 71-80 scores; • (D) Satisfactory- 61-70 scores; • (E) Enough- 51-60 scores; <p>Negative rate:</p> <ul style="list-style-type: none"> • (FX) Failure - 41-50 scores, which means that a student needs to work more and an independent and considerable further work is required to pass the exam once again to be re-awarded; • (F) Fail – 40 scores or less, which means that the student's diligence is not sufficient and student

	<p>has to learn the subject all over again. Student can pass the additional exam during the same semester. The time interval between the final and the additional exams should be not less than 10 days.</p>
The basic literature	<ol style="list-style-type: none"> 1. EDITED BY: PHILIPP DAHM, ROGER DMOCHOVSKI. EVIDENCE-BASED UROLOGY. WILEY-BLACKWELL BMJI BOOKS. 1ST ED. 2010; 2. BARRY M.BRENNER BRENNER & RECTOR'S . THE KIDNEY (VOLUME I, II), LIPPINCOTT WILLIAMS & WILKINS, VIII, 2008;
The auxiliary literature	<p>EDITED BY: PHILIPP DAHM, ROGER DMOCHOVSKI EVIDENCE-BASED UROLOGY WILEY-BLACKWELL BMJI BOOKS, I, 2010 EDITOR-IN-CHIEF: SAM D. GRAHAM, JR. GLENN'S UROLOGIC SURGERY WILEY-BLACKWELL BMJI BOOKS, I, 2010</p>

The tutorial/training course content

№	Subjects	Lecture (hour)	Work in group (hour)
1	The symptomatics of urological diseases. The methods of laboratory-instrumental research (endoscopic research). the methods of ultrasonic research. The methods of radiological research. Magnetic-resonance tomography, radio isotope diagnostics, urodynamic diagnostics. Biopsy	2	6
2	The anomalies of kidney, urinary tract and male genital organs. The injuries of the organs of urogenital system. Nephroptosis. Nonspecific and specific inflammations of urogenital organs. Ureterohydronephrosis. Pyonephrosis, paranephritis	4	6
3	Tuberculosis of urogenital organs. Parasitic diseases of urogenital organs.	4	4
4	Urolithic disease. Hydronephrosis. Tumors of urogenital organs. Renal tumors. Wilms's tumor. Tumor of pelvis and ureter. Retroperitoneal and adrenal gland tumors	2	6
	Midterm exam		2
5	Tumor of urinary bladder, tumor of ureter, benign hyperplasia and cancer of prostate gland. Tumors of male genital organs.	4	6
6	Nephrogenic arterial hypertension , vasorenal form, parenchymatous form.	2	6
7	Renal venous hypertension. Stenosis of renal vein. Varicocele. Neurogenetic urinary bladder.	4	6

8	Enuresis, acute and chronic renal insufficiency, hemodialysis.	3	6
	Final Exam		2

Learning Outcomes

Criteria	Competences
Knowledge and Understanding	After completion of the course the student will have a deep and thorough knowledge of acute and chronic urologic diseases: their clinical picture, diagnosing methods (X-rays, UZI, tomography) and treatment.
Applying knowledge	Student is able: To collect anamnesis, to connect to each other the symptoms characteristic of urogenital system diseases, to make logical conclusions, to plan the research and treatment. The student will develop the following practical skills: the catheterization of urinary bladder, the evacuation of urine from the bladder and other simple manipulations, which will be performed under the supervision of the physician.
Communication Skills	After the completion of the learning course the student will be able to communicate with the patient and his/her family members regarding the pathology of urogenital system. Student can manage the different form of academic and scientific information from different sources (classic and electronic library, the Internet) to work fast and look for the relevant information effectively. These found materials has to be planned, processed, analyzed, and to make the best use for the report with the proper conclusions as in in writing, as well as in verbal form. Student can working in group, has watching, listening, summarizing, asking and answering questions abilities, is able to participate in the discussion. During the education process the professional and friendly relationship has to be formed with the older (professors / teachers) and younger (this and other groups students) colleagues, communication with any person regardless of their social, cultural, religious or ethnic affiliation.