**DESCRIPTION OF THE COURSE OF STUDY**

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| **Course code** | LEK/Eng-Div-6/16/17 | |
| **Name of the course in** | Polish | **Urologia** |
| English | **Urology** |

1. **LOCATION OF THE course OF STUDY within the system of studies**

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| **1.1. Field of study** | Medical |
| **1.2. Mode of study** | Full-time |
| **1.3. Level of study** | Uniform Master’s studies |
| **1.4. Profile of study\*** | General academic |
| **1.5. Person preparing the course description** | Dr Marcin Kosowski |
| **1.6. Contact** | marcin.kosowski@ujk.edu.pl |

1. **GENERAL CHARACTERISTICS OF THE COURSE OF STUDY**

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| **2.1. Language of instruction** | English |
| **2.2. Prerequisites\*** | Anatomy, Physiology, Urology |

1. **DETAILED CHARACTERISTICS OF THE COURSE OF STUDY**

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| * 1. **Form of classes** | | **LECTURE: 15 (3h of e-learning) CLASSES: 15, PRACTICAL CLASSES: 15** |
| * 1. **Place of classes** | | Lectures –Collegium Medicum UJK or online  Clinical classes – Holy Cross Cancer Center in Kielce |
| * 1. **Form of assessment** | | LECTURE – E, CLASSES and PRACTICAL CLASSES – Zo |
| * 1. **Teaching methods** | | lectures, discussion, case study |
| * 1. **Bibliography** | **Required reading** | 1. UROLOGY FOR MEDICAL STUDENTS AND JUNIOR DOCTORS, RICKY ELLIS 2020  <https://www.baus.org.uk/_userfiles/pages/files/professionals/education/medical%20students/PDF%20Urology_interior_8thfinal%20(1).pdf> |
| **Further reading** | 1. [Oxford Handbook of Urology (4 edn)](https://oxfordmedicine.com/view/10.1093/med/9780198783480.001.0001/med-9780198783480) 2. John Reynard, Simon F. Brewster, Suzanne Biers, and Naomi Laura Neal 3. Campbell-Walsh Urology 12th Edition Review |

1. **OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES**

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| * 1. **Course objectives (including form of classes)**   C1 Knows the details of urological disorders in adults  C2 Propose differential diagnosis, plan diagnostic workup and interpret results evaluating a patient with urological disorders  C3 Establishes and maintains a deep and respectful contact with the patient |
| * 1. **Detailed syllabus (including form of classes)**   **KEY PRESENTATIONS OF UROLOGICAL DISEASE**  These can be broadly categorised as follows:  •Visible or invisible haematuria  •Lump in the scrotum  •Pain in the scrotum  •Tight foreskin  •Man with sexual problemserectile dysfunctionpremature ejaculationpenile deformity  •Urinary infectioncystitispyelonephritisepididymo-­‐orchitisbalanitisprostatitis  •Urosepsis  •Pain in the loin  •Mass in the loin  •Lower urinary tract symptomsdifficulty storing urinedifficulty voiding urine  •Couple having difficulty conceiving  •Urinary incontinenceurge incontinencestress incontinence  •Urological traumafractured penisfractured pelvis  •Raised PSA  They are managed by sub-­‐specialist groups of urologists, including:  •Paediatric urology  •Female urology  •Andrology & reconstructive urology  •Endourology (including stones)  •Uro-­‐Oncology  REQUIREMENTS OF UNDERGRADUATE TRAINING IN UROLOGY  At the end of medical training, all medical students should be familiar with the presentation and safe, initial management of the following:  Acute renal tract stone disease  •Recognise the patient presenting with acute ureteric colic, ureteric obstruction & sepsis•Manage the initial assessment appropriately  •Understand the appropriate investigations (CT, IVU or ultrasound)Acute (or chronic) abdominal pain referable to the urinary tract  •Have awareness of the urological causes of abdominal pain  •Be familiar with appropriate investigations in both the emergency & outpatient setting  •Understand (and be competent) in the insertion of a urethral catheter in both sexes  Lower urinary tract symptoms (LUTS) in male & female patients  •Understand the causes of LUTS in male & female patients  •Be familiar with first-¬‐line investigations  •Be familiar with basic outpatient treatment for bladder outflow obstruction & detrusor over-¬‐activity  Haematuria  •Understand the common causes of haematuria  •Be able to assess the patient with haematuria  •Be able to initiate the management of haematuria  Urinary tract infection (UTI)  •Understand the causes of UTI  •Understand the basic investigations for UTI  •Be able to initiate first-¬‐line treatment for UTI  Scrotal swelling & pain  •Understand the causes and initial management of scrotal swelling & scrotal pain  Urinary incontinence in male & female patients  •Understand the causes of urinary incontinence in male & female patients  •Be able to differentiate between stress & urge incontinence  Urological cancers (including kidney, bladder, prostate, penis & testis)  •Understand how urological malignancies present  •Be able to recognise tumours of the kidney, bladder, prostate, penis & testis  •Understand the appropriate investigations for the above cancers  •Understand the role of PSA testing and testicular tumour markers  Male infertility  •Understand the causes of male fertility  Erectile dysfunction (ED)  •Understand the physical & psychological causes of erectile dysfunction  •Understand the implication of ED as a marker for systemic vascular disease  Acute kidney injury  •Understand the diagnosis, assessment & initial management of patients presenting with acute renal failure/anuria |

* 1. **Intended learning outcomes**

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| **Code** | **A student, who passed the course** | **Relation to learning outcomes** |
| within the scope of **KNOWLEDGE** : | | |
| W01 | the causes, symptoms, principles of diagnosis and therapeutic management in relation to the most common diseases requiring surgical intervention, taking into account the individuality of childhood urinary system | F.W1. |
| W02 | eligibility rules for basic surgeries, invasive diagnostic and treatment procedures, principles concerning conducting these procedures and most common complications; | F.W3. |
| W03 | postoperative treatment and analgesic therapy as well as post-operative monitoring | F.W5. |
| W04 | the issues concerning modern imaging tests, in particular:  1)radiological symptomatology of basic diseases,  2) instrumental methods and imaging techniques used to perform medical procedures,  3) the indications, contraindications and preparation of patients to particular types of imaging tests and contraindications the use of contrast agents; | F.W10. |
| within the scope of **ABILITIES** : | | |
| U01 | assess patient’s general condition, consciousness and awareness; | E.U7. |
| U02. | perform differential diagnosis of the most common diseases in adults and children; | E.U12. |
| U03 | assess and describes the somatic and mental state of patients; | E.U13. |
| U04. | recognize states of a direct threat to life; | E.U14. |
| U05. | plan diagnostic, therapeutic and preventive procedures; | E.U16. |
| U06. | conduct analysis of the potential side effects of each drug and the interaction between them; | E.U17. |
| U07. | recognize states in which functional status of the patient's or his/her preferences restrict the treatment in accordance with specific guidelines for the disease; | E.U21. |
| U08. | interpret laboratory test results and identify the reasons for deviations; | E.U24. |
| U09. | plan specialist consultations; | E.U32. |
| U10. | evaluate decubitus and apply appropriate dressings; | E.U35. |
| U11. | assist during a typical surgery, prepare the surgical site and locally anesthetize operated area; | F.U1. |
| U12 | comply with the aseptic and antiseptic rules; | F.U3. |
| U13. | manage simple wounds and change sterile surgical dressing | F.U4. |
| U14 | assess indications for suprapubic puncture and participate in its execution; | F.U23. |
| U15. | assist during the common urological procedures (diagnostic and therapeutic endoscopy of the urinary system, lithotripsy, puncture of the prostate); | F.U24. |

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| * 1. **Methods of assessment of the intended learning outcomes** | | | | | | | | | | | | | | | | | | | | | |
| **Teaching**  **outcomes**  **(code)** | **Method of assessment (+/-)** | | | | | | | | | | | | | | | | | | | | |
| **Exam oral/written\*** | | | **Test\*** | | | **Project\*** | | | **Effort**  **in class\*** | | | **Self-study\*** | | | **Group work\*** | | | **Others\*** | | |
| ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | | ***Form of classes*** | | |
| *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* | *L* | *C* | *...* |
| W01 | ***X*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W02 | ***X*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W03 | ***X*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W04 | ***X*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| W05 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| U01 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U02 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U03 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U04 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U05 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U06 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U07 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U08 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U09 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U10 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U11 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U12 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U13 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U14 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |
| U15 |  |  |  | ***X*** |  |  |  |  |  | ***X*** |  |  |  |  |  |  |  |  |  |  |  |

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| **4.5. Criteria of assessment of the intended learning outcomes** | | |
| **Form of classes** | **Form of classes** | **Form of classes** |
| **lecture (L)** | **3** | Test results 61-68% |
| **3,5** | Test results 69-76% |
| **4** | Test results 77-84% |
| **4,5** | Test results 85-92% |
| **5** | Test results 93-100% |
| **classes (C)\*** | **3** | 61-68%  Mastering the content of the curriculum at the basic level, chaotic answers, necessary leading questions. Data collection and solving clinical problems in typical situations with the help of guiding questions / supplementing the content by the teacher. |
| **3,5** | 69-76% Mastering the content of the curriculum at the basic level, systematized answers, requires the help of a teacher. Collecting data and solving clinical problems in typical situations with the help of the teacher. |
| **4** | 77-84% Mastering the content of the curriculum at the basic level, systematic and independent answers. Collecting data and solving clinical problems in typical situations independently |
| **4,5** | 85-92% The scope of the presented knowledge goes beyond the basic level based on the supplementary literature provided. Collecting data and solving clinical problems independently. Problem solving in new and complex situations. |
| **5** | 93-100% The scope of the presented knowledge and skills goes beyond the basic level based on self-acquired scientific sources of information. Collecting data and solving clinical problems independently in new and complex situations with the use of EBM. |
| **Practical classes (C)\*** | **3** | 61-68%  Mastering the content of the curriculum at the basic level, chaotic answers, necessary leading questions. Data collection and solving clinical problems in typical situations with the help of guiding questions / supplementing the content by the teacher. |
| **3,5** | 69-76% Mastering the content of the curriculum at the basic level, systematized answers, requires the help of a teacher. Collecting data and solving clinical problems in typical situations with the help of the teacher. |
| **4** | 77-84% Mastering the content of the curriculum at the basic level, systematic and independent answers. Collecting data and solving clinical problems in typical situations independently |
| **4,5** | 85-92% The scope of the presented knowledge goes beyond the basic level based on the supplementary literature provided. Collecting data and solving clinical problems independently. Problem solving in new and complex situations. |
| **5** | 93-100% The scope of the presented knowledge and skills goes beyond the basic level based on self-acquired scientific sources of information. Collecting data and solving clinical problems independently in new and complex situations with the use of EBM. |

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| **Criteria for evaluation of oral answer**  1. Provision of a comprehensive answer to the problem (task)  2. Skill of integration of knowledge from allied domains (disciplines)  3. Independence and/or creativity in the presentation of the scope of problems, proposals of solutions  4. Presentation of the current knowledge related with the discipline (domain)  5. Recognition of problems resulting from the task |

**5. BALANCE OF ECTS CREDITS – STUDENT’S WORK INPUT**

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| **Category** | **Student's workload** |
| **Full-time**  **studies** |
| NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/ | ***45*** |
| Participation in lectures\* | 15 |
| Participation in classes, seminars, laboratories\* | 30 |
| Preparation in the exam/ final test\* |  |
| Others\* |  |
| INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/ | ***30*** |
| Preparation for the lecture\* | 15 |
| Preparation for the classes, seminars, laboratories\* | 15 |
| Preparation for the exam/test\* |  |
| Gathering materials for the project/Internet query\* |  |
| Preparation of multimedia presentation |  |
| Others (please specify e.g. e-learning)\* |  |
| **TOTAL NUMBER OF HOURS** | ***75*** |
| **ECTS credits for the course of study** | **3** |

***\*delete as appropriate  
Accepted for execution (date and legible signatures of the teachers running the course in the given academic year)***

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