**SYLLABUS**

1. **Programme Details**

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| **1.1.** | **GRIGORE T. POPA UNIVERSITY OF MEDICINE AND PHARMACY IASI** | | | | | | | |
| **1.2.** | **FACULTY: MEDICINE / DEPARTMENT: CHIRURGIE II** | | | | | | | |
| **1.3.** | **DISCIPLINE: UROLOGY** | | | | | | | |
| **1.4.** | **FIELD of STUDY: HEALTH** | | | | | | | |
| **1.5.** | **STUDY CYCLE: BACHELOR** | | | | | | | |
| **1.6.** | **PROGRAMME of STUDY: MEDICINE English** | | | | | | | |
| 1. **Discipline Details** | | | | | | | | |
| **2.1.** | **Name of the Discipline: UROLOGY** | | | | | | | |
| **2.2.** | **Teaching staff in charge with lectures:** PROF. DR. CATALIN PRICOP, SEF LUCRARI DR. CRISTIAN COSTACHE | | | | | | | |
| **2.3.** | **Teaching staff in charge with seminar activities:** PROF. DR. CATALIN PRICOP, SEF LUCRARI DR. CRISTIAN COSTACHE, As. Dr. Todosi Liviu, As. Dr. Suditu Nicolaie, As. Dr. Negru Irina, As. Dr. Radu Viorel, As. Dr. Novac Bogdan, As. Dr. Puia Dragos, As**. Dr. Maxim (Miron) Adelina, Dr. Andriciuc Radu.** | | | | | | | |
| **2.4. Year** | | **IV** | **2.5. Semester** | **I/II** | **2.6. Type of evaluation** | **E1/E2** | **2.7. Discipline regimen** | **MANDATORY** |

1. **Overall Time Estimates (hours/semester of didactic activity)**

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| * 1. **Number of hours per week** | 4 | **Of which: 3.2. lectures** | | 2 | * 1. **seminar/ laboratory** | 2 |
| * 1. **Total hours in the curriculum** | 42 | **Of which: 3.5. lectures** | | 14 | **3.6. seminar/ laboratory** | 28 |
| **Distribution of time** |  |  | |  |  | Hours |
| **Study time using coursebook materials, bibliography and notes** | | | | | | 28 |
| **Further study time in the libray, online and in the field** | | | | | | 12 |
| **Preparation time for seminars / laboratories, homework, reports, portfolios and essays** | | | | | | 14 |
| **Tutoring** | | | | | | 2 |
| **Examinations** | | | | | | 4 |
| **Other activities** | | | | | | - |
| **3.7. Total hours of individual study** | | |  | | | 58 |
| **3.8. Total hours / semester** | | |  | | | 100 |
| **3.9. Number of credits** | | |  | | | 4 |

1. **Prerequisites (where applicable)**

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| **4.1. curriculum** | Anatomy, Physiopathology, Surgical semiology |
| **4.2. competences** | - |

1. **Conditions (where applicable)**

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| **5.1. for lecture delivery** | - |
| **5.2. for seminar / laboratory delivery** | - |

1. **Specific Competences Acquired**

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| **Professional Competences (knowledge and skills)** | 1. Clinical examination of the urological patient. Common paraclinic investigations. 2. Diagnosis and therapeutic approach in urological emergencies: renal colic, retention of urine, gross hematuria, postrenal anuria. 3. Early diagnosis of urological cancers: clinical examination, tumoral markers, imagistic investigations. 4. Non-specific urinary tract infections: diagnosis, therapeutic approach. |  |
| **Transversal Competences (roles, personal and professional development)** | Anatomy, Physiology and Physiopathology, Histopathology, Pharmacology |  |

1. **Obiectives of the Discipline (related to the acquired competences)**

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| **7.1. General Obiective** | The aim is to introduce the student into the study of urological diseases (diagnosis and treatment). |  |
| **7.2. Specific Obiectives** | The aim is to introduce the future general practitioner into the study of urological diseases (diagnosis and treatment, including the urological emergencies). |  |

1. **Contents**

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| **8.1. Lecture** | **Teaching methods** | **Comments** |
| Urological diagnosis: anamnesis, clinical examination, investigations. | curs | 2 |
| Congenital abnormalities of the genito-urinary tract: renal, pyelo-ureteral, bladder, testicular ectopy.  Trauma of the urinary tract: renal, bladder, urethral (etiopathogenesis, pathology, clinical findings, diagnosis, treatment). | curs | 1  1 |
| Non-specific infections of the urinary tract and the male genital tract: etiopathogenesis, diagnosis, treatment; pyelonephritis, pyonephritis, cystitis, acute prostatitis, acute epididymitis.  Uro-genital tuberculosis: etiopathogenesis, pathology, clinical findings, diagnosis, radiological investigation, differential diagnosis, evolution, treatment. | curs | 2 |
| Urinary lithiasis: etiopathogenesis, clasification, clinical findings, diagnosis, complications, treatment. Particular forms (depending on localization): pyelo-caliceal, ureteral, bladder, urethral.  Renal failure in urology (acute, chronic). | curs | 2 |
| Urothelial tumors (pyeloureteral, bladder): etiology, pathology, TNM clasification, clinical findings, diagnosis, treatment.  Retroperitoneal tumors: clasification, symptoms, diagnosis, treatment. | curs | 2 |
| Renal tumors: etiopathogenesis, pathology, TNM clasification, clinical findings, diagnosis, treatment.  Testicular tumors: etiology, pathology, clasification, clinical findings, diagnosis, treatment.  Hydrocele, varicocele.  Penile tumors, phymosis, paraphymosis, priapism.  Urethral strictures. | curs | 2 |
| Prostate tumors. Benign prostatic hyperplasia: etiology, pathology, physiopathology, clinical findings, diagnosis, complications, treatment.  Prostate cancer: etiology, pathology, TNM clasification, clinical findings, diagnosis, treatment. | curs | 1  1 |
| **Bibliography Bibliography:**   1. **C. Pricop, Dan Mischianu, Martha Orsolya, Viorel Bucuras -** ABC in Urology, editura PIM, Iasi, 2012 2. **C. Costache, V. Gheorghiu –** Urology – lecture notes, editura U.M.F. Iasi, 2003 3. **Smith’s Urology**, 2008 4. **C. Pricop, C. Costache, D. Mischianu** – Ghid practic in urologie, editura Gr.T.Popa, 2015 | | |
| **8.2. Seminar / Laboratory** | **Teaching methods** | **Comments** |
| Clinical examination of genitourinary tract. | **Stagiu/LP** | 4 |
| Common investigations (microbiology, pathology, biochemistry). Instrumentation in urology: urethal and ureteral catheterization, endoscopic investigations (cystoscopy, urethroscopy, pyeloscopy – video presentations). | **Stagiu/LP** | 4 |
| Ultrasonographic and radiologic investigations (KUB-X ray, IVU, urethrography, CT, MRI) of the genito-urinary tract. | **Stagiu/LP** | 2 |
| Clinical case presentations (according to the lecture topics):  - renal tumor;  - urinary lithiasis, 2-3 presentations: clinical cases, modern treatment (ESWL, PNL, endoscopic lithotripsy);  - urogenital infections, 2 presentations: acute and chronic pyelonephritis, pyonephrosis, acute cystitis, acute prostatitis, acute epididymitis, tuberculosis;  - prostatic tumors, 2-3 presentations: benign prostatic hyperplasia, prostatic cancer;  - urothelial tumors, 2 presentations: bladder, pyeloureteral;  - urogenital trauma: renal contusion, urethral trauma;  - endoscopic treatment: TUR-P, TUR-BT, PNL, optical urethrotomy (video or live presentations);  - principles of diagnosis and treatment in urological emergencies: renal colic, urinary retention, hematuria, anuria (obstructive renal failure). | **Stagiu/LP** | 12 |
| Urologic instrumentation (overview), preparing instruments for intervention. | **Stagiu/LP** | 2 |
| Preparing (patient, materialS) for various exploration and urological interventions  (prostate biopsy, cystoscopy, catheterization urethral and ureteral, extracorporeal lithotripsy, percutaneous nephrostomy etc.). | **Stagiu/LP** | 2 |
| Postoperative care of urologic patient (postoperatorie care endoscopic transvezical adenomectomy, nefrolitotomie percutaneous, retro- and anterograde ureteroscopy, lithotripsy extracorporeal nephrectomy, cystectomy radical etc) patient care catheter carrier (urethral sonde nephrostomy) or cutaneous ureterostomie. | **Stagiu/LP** | 2 |
| **Bibliography Bibliography:**   1. **C. Pricop, Dan Mischianu, Martha Orsolya, Viorel Bucuras -** ABC in Urology, editura PIM, Iasi, 2012 2. **C. Costache, V. Gheorghiu –** Urology – lecture notes, editura U.M.F. Iasi, 2003 3. **Smith’s Urology**, 2008 4. **C. Pricop, C. Costache, D. Mischianu** – Ghid practic in urologie, editura Gr.T.Popa, 2015 | | |

1. **Correlations between the contents of the discipline and the expectations of the epistemic community, of profesional associations and of employers in the field**

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| Knowledge and skills are set as teaching objectives and specified as such in analytical programs reviewed annually. After analysis within the discipline, these are discussed and approved within the Curriculum Bureau, in the sense of harmonization with other disciplines. Throughout this process, the correspondence between content and the expectations of the academic community, community representatives, professional associations and employers is systematically assessed, as far as possible. As a primary goal, the discipline aims to provide students with the optimal prerequisites for the next years of study in the Bachelor of Medicine program, in order to successfully hire, immediately after graduation, residency programs in Romania and other EU countries. |

1. **Evaluation**

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| **Type of activity** | **10.1. Evaluation criteria:** | **10.2. Methods of evaluation** | **10.3. Percentage of final grade** |
| **10.4. Lecture** | Grade for multiple choice test | standardized multiple choice test | 50% |
| **10.5. Seminar / Laboratory** | Average grade of ongoing examinations | ongoing evaluation | 10% |
| Grade for practical examination | practical exam | 40% |
| **Minimum standard of performance: at least grade 5 to pass the discipline** | | | |

**Date: Signiture of Didactic Co-ordinator**

**01.10.2019 PROF. DR. CATALIN PRICOP**

**Signiture of Department Director PROF. DR. DAN COBZEANU**