



DISCIPLINE SHEET

1. Program information

1.1.	CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1.2.	MEDICINE FACULTY
1.3.	DEPARTMENT 3 - NEPHROLOGY, UROLOGY, TRANSPLANT IMMUNOLOGY, DERMATOLOGY, ALLERGOLOGY
1.4.	UROLOGY COURSE - "PROF. DR. TH. BURGHELE" CLINICAL HOSPITAL
1.5.	FIELD OF STUDY: Health - Sector-specific regulation within the European Union
1.6.	STUDY CYCLE: BACHELOR'S DEGREE
1.7.	STUDY PROGRAM: MEDICINE

2. Discipline Information

2.1.	Discipline Name of the subject in the curriculum: Functional Urology				
2.2.	Discipline code: DS VI 15M				
2.3.	The type of discipline: (DF/DS/DC): DC – complementary discipline				
2.4.	Discipline regime: (DOB/DOP/DFA): DOP – optional discipline				
5.5.	Holder of course activities: Assoc. Prof. Dr. PERSU CRIATIAN				
2.6.	Holder of the seminar activities: -				
2.7. Year of study	Modular year VI	2.8. Semester	I, II	2.9. Type of assessment (E/C)	E

3. Estimated total time (hours/semester of teaching activity)

I. University preparation (teaching, practical application, evaluation)					
3.1. Number of hours per week	2 hours	3.2. including: lectures	2 hours	3.3. Clinical internship	0
3.4. Total hours in the curriculum	14 hours	3.5. including: lectures	14 hours	3.6. Clinical internship	0
Evaluation (no. hours): 1 hours					
II. Distribution of time fund					hours
Study of course materials, textbooks, books, study of the minimum recommended bibliography					15
Additional documentation in the library, documentation via the internet					15
Carrying out specific preparation activities for the project, laboratory, preparation of assignments, reports					

Preparation for presentations or checks, preparation for the final examination		10
Consultations		6
Other activities		
3.7. Total hours of individual study	2•30 – 14 = 46	
3.9. Total hours per semester (3.4.+ 3.7.)	14 + 46 = 60	
3.10. Credit numbers	2	

4. Preconditions (where applicable)

4.1. Curriculum	Fundamental knowledge of the anatomy and physiology of the urinary system
4.2. Competency	General clinical examination of the patient

5. Conditions (where applicable)

5.1. course development	- The course takes place in the Amphitheater of the building or in the classroom of the Department of Urology. - The material is exposed interactively in the form of a Power point presentation on the video projector. - Students are involved in the process of exposing through questions and presentations.
5.2. conducting the clinical period	-

6. Learning outcomes*

Knowledge	Skills	Responsibility and autonomy
Explains the etiology, pathophysiology, and clinical picture of the main urological conditions.	Performs a complete urological history and clinical examination.	Respects ethical, deontological principles and patient safety standards in the clinical environment.
Describes the imaging, endoscopic, and laboratory methods used in the evaluation of the urological patient.	Interprets the results of specific laboratory investigations.	They work in a multidisciplinary team, assuming roles appropriate to their level of training.
Understands the medical, surgical and minimally invasive therapeutic principles applied in urology.	Participates under guidance in basic urological procedures (catheterization, cystostomy, drainage, sampling).	Demonstrates progressive autonomy in applying knowledge and skills acquired under supervision.
Integrates theoretical and clinical concepts to guide diagnosis and therapeutic conduct.	Develops a diagnostic and therapeutic management plan for common urological cases.	Manages their clinical learning process through self-assessment and soliciting feedback from healthcare professionals.

7. The objectives of the discipline (based on the grid of specific competences accumulated)

7.1. General objective	The objectives of the functional urology discipline are to familiarize the medical student with this specific pathology, and with the principles of diagnosis and treatment of these disorders.
7.2. Specific objectives	- Conceiving and applying a therapeutic plan appropriate to the specific urological condition. - Establishment and development of a good and effective communication relationship doctor - patient.

8. Contents

8.1. Course	Teaching methods	Observations
See the additional course material	Lecture. The courses are presented in the amphitheater and rooms technically equipped for this purpose. All courses have electronic support and are updated according to the guidelines developed by international companies in the field.	
Bibliography for the course and clinical internship 1. "UROLOGY - COURSE FOR STUDENTS" Carol Davila University Publishing, Bucharest, 2022, ISBN 978-606-011-222-8-8 2. "UROLOGY – PRACTICAL WORKS FOR STUDENTS" - SINESCU I. "Carol Davila" University Publishing House, Bucharest, 161 pages, 2005. ISBN: 973-708-103-X 3. Peter F. Lawrence - General Surgery and Surgical Specialties. Octavian Crețu, Viorel Jinga, Viorel Scripcariu – coordinators of the Romanian edition, 6th Edition, Hipocrate Publishing House, Bucharest, 2021		
8.2. Clinical internship	Teaching methods	Observations
-	-	

9. Evaluation

Type of activity	9.1. Evaluation criteria	9.2. Evaluation Methods	9.3. Percentage of the final grade
9.4. Lecture	Answer to questions	grid type exam	100%
9.5. Seminar / laboratory	-	-	-
9.5.1. Individual project (if any)	-		
Minimum Performance Standard			50%
According to the STUDENT PROFESSIONAL ACTIVITY STATUTE Art. 25 (1) At the beginning of the academic year, each discipline must display the analytical program, course and clinical internship objectives, exam topics, reference bibliography, evaluation, and grading methods. These remain valid throughout the academic year.			

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Date of completion: 12.09.2025	Signature of the course instructor Assoc. Prof. Dr. Persu Cristian
Date of approval by the Department Council:	Signature of the department director: Assoc. Prof. Dr. Rădăvoi George Daniel

Course annex

8.1. Lectures	Teaching methods	Observations
1. Introductory course a. Definitions of the main notions used b. Principles of fluid dynamics applicable in functional urology c. Epidemiological data d. Physiology of the lower urinary tract e. Functional phases of the bladder: filling, storing, emptying	Oral presentation and multimedia presentation	1 x 2 h
2. Urological functional explorations a. Elementary principles in urological functional explorations b. Uroflowmetry c. Cistomanometry, filling d. Flow pressure study e. Electromyography f. The Whitaker Test g. Physiology of the pyeloureteral junction	Oral presentation and multimedia presentation	1 x 2 h
3. The main concomitant conditions that can affect the physiology of the lower urinary water a. Spinal cord injury b. Multiple sclerosis c. Diabetes mellitus d. Central motor infirmity e. Stroke	Oral presentation and multimedia presentation	1 x 2 h
4. Reeducation of the pelvic floor a. Basics b. Electrostimulation c. Magnetic stimulation d. Bio feedback	Oral presentation and multimedia presentation	1 x 2 h
5. Urinary incontinence a. Definition b. Epidemiology c. Stress urinary incontinence d. Urgency urinary incontinence e. Mixed urinary incontinence	Oral presentation and multimedia presentation	1 x 2 h
6. Neurological bladder a. Definition b. Epidemiology c. Diagnostic protocol d. Principles of treatment e. Follow-up of the patient with neurological	Oral presentation and multimedia presentation	1 x 2 h

bladder		
7. Urethral strictures a. Definition b. Epidemiology c. Imaging exploration of urethral strictures d. Internal optic urethrotomy e. Urethroplasty f. Long-term evolution	Oral presentation and multimedia presentation	1 x 2 h
Bibliography 1. "UROLOGY – PRACTICAL WORKS FOR STUDENTS" - SINESCU I. "Carol Davila" University Publishing House, Bucharest, 161 pages, 2005. ISBN: 973-708-103-X 2. "UROLOGY – COURSE FOR STUDENTS" "Carol Davila" University Publishing House, Bucharest, 2013. 3. Peter F. Lawrence - General Surgery and Surgical Specialties. Octavian Crețu, Viorel Jinga, Viorel Scripcariu – coordinators of the Romanian edition, 6th Edition, Hipocrate Publishing House, Bucharest, 2021		