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**Federal State Autonomous Educational Institution of Higher Education
PEOPLES' FRIENDSHIP UNIVERSITY OF RUSSIA
RUDN University
Institute of Medicine**

educational division (faculty/institute/academy) as higher education programme developer

COURSE SYLLABUS

Endoscopic Urology

course title

Recommended by the Didactic Council for the Education Field of:

31.05.01 General Medicine

field of studies / speciality code and title

The course instruction is implemented within the professional education programme of higher education:

General Medicine

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The goal of the course “Endoscopic Urology” is to equip students with knowledge of the main clinical manifestations of urological diseases, methods of diagnosis, differential diagnosis and treatment.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) “Endoscopic Urology” is aimed at the development of the following competences /competences in part: **General Professional Competences- (GPC-4, 5, 6, 11).**

Table 2.1. List of competences that students acquire through the course study

Competence code	Competence descriptor	Competence formation indicators (within this course)
GPC-4	Diagnostic instrumental examination methods	GPC-4. Able to use medical devices provided for by the order of medical care, as well as conduct examinations of the patient in order to establish a diagnosis
GPC- 5	Etiology and pathogenesis	GPC-5. Able to assess morphofunctional, physiological conditions and pathological processes in the human body to solve professional problems

GPC- 6	Primary Health Care	GPC-6. Able to organize patient care, provide primary health care, ensure the organization of work and the adoption of professional decisions in emergency conditions at the prehospital stage, in emergency situations, epidemics and in centers of mass destruction
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11	Scientific and organizational activities healthcare system	GPC-11. Able to prepare and apply scientific, research and production, design, organizational, managerial and regulatory documentation in the
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3. COURSE IN HIGHER EDUCATION PROGRAMME STRUCTURE

The course refers to the core/variable/elective* component of (B1) block of the higher educational programme curriculum.

* - Underline whatever applicable.

Within the higher education programme students also master other (modules) and / or internships that contribute to the achievement of the expected learning outcomes as results of the course study.

Table 3.1. The list of the higher education programme components/disciplines that contribute to the achievement of the expected learning outcomes as the course study results

Competence code	Competence descriptor	Previous courses/modules*	Subsequent courses/modules*
GPC-4, GPC-5, GPC-6, GPC-11,		Anatomy; Pathophysiology, clinical pathophysiology; Propaedeutics of internal diseases	Obstetrics and gynecology; hospital therapy; Occupational diseases; Endoscopic urology
GC-8, GC-20, GC-22		General surgery; Topographic anatomy and operative surgery;	Hospital surgery; obstetrics and gynecology

4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course “Endoscopic Urology” is 3 credits (108 academic hours).

*Table 4.1. Types of academic activities during the periods of higher education programme mastering (full-time training)**

Table 4.1. Types of academic activities during the period of the HE program mastering

Type of academic activities	Total academic hours	Semesters/training modules	
		12	
Classroom learning , <i>ac.h.</i>	51	51	
Including:			
Lectures (LC)			
Lab work (LW)			
Seminars (workshops/tutorials) (S)	51	51	
Self-studies, academic hours	57	57	
Evaluation and assessment (exam or pass/fail grading)			
Total workload of the discipline	ac.h.	108	
	credits	3	

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Module 1 Introduction to Endourology	The history of the development of endoscopic urology, its current state and prospects. Organization of endosurgical operation. TUR operating room.	S

Module 2 Endodiagnosis and treatment of diseases of the urethra and bladder	Urethroscopy. Internal urethrotomy. Cystoscopy. Biopsy of the bladder mucosa. Catheterization of the ureter and pelvis. TUR of the bladder and intravesical electrocoagulation. Cystolithotripsy.	S
Module 3 Endodiagnosis and treatment of ureteral diseases	Ureteropyeloscopy. Bringing down ureteral stones (lithoextraction). Contact urethrolithotripsy. Dissection of the mouth of the ureter. internal stenting. Electroresection of the ureterocele.	S
Module 4	Percutaneous puncture nephrostomy - PNNS.	S
Course module title	Course module contents (topics)	Academic activities types
Endodiagnosis and treatment of kidney diseases	Puncture of kidney cysts. Percutaneous endonefroureterolithotomy (nephrolitholapaxy).	
Module 5 Endodiagnosis and treatment of diseases and prostate gland	TUR of the prostate. Endoscopic electrovaporization of the prostate. TUR is the vaporization of the prostate. Endoscopic laser surgery of the prostate.	S
Module 6 Laparoscopic methods of treatment of urological diseases	Equipment and instruments for laparoscopic operations. The main stages of laparoscopic surgery in urology Laparoscopic operations on the organs of the retroperitoneal space. Laparoscopic operations on the pelvic organs	S

6. CLASSROOM EQUIPMENT AND TECHNOLOGY SUPPORT REQUIREMENTS

Table 6.1. Classroom equipment and technology support requirements

Type of academic activities	Classroom equipment	Specialised educational / laboratory equipment, software, and materials for course study (if necessary)
Lab work	Medical Biotechnologies Lab equipped with a set of specialized furniture and lab equipment; (classrooms 316, 318)	Laboratory CO2- incubators Shellab, laminar-flow cabinet series Biowizard , microscope “Leica Microsystem CMC», inverted microscope Leica DMI8, automatic cell counter TC20, laboratory microcentrifuge MiniSpin, abacterial box, flow cytometer, freezer compartment UF V 700, cellular analyzer xCELLigence, Lab of a full cycle of histological tissue processing..
Seminar	Classroom for lab work, individual consultations, self-studies equipped with a set of specialized furniture; whiteboard	Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), sets of histological preparations, a list of stands, tables, visual posters, etc
Self-studies	Classroom for self-studies of students (can be used for seminars and consultations), equipped with a set of specialized furniture	Software: Microsoft Windows, MS Office / Office 365, MS Teams, Chrome (latest stable release), sets of histological preparations, microphotographs, a list of stands, tables, visual posters, etc

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Urology. National leadership. / Ed. ON. Lopatkin. –M. : GEOTAR-Media, 2013. 1024.
2. Anomalies of the genitourinary system. / Under the editorship of Daryalova S.L., M., 2008.
3. Urolithiasis disease. Guide to practical exercises in oncology. Edited by Gantsev Sh.Kh., Moscow 2007.

Additional readings:

Electronic full-text materials:

1. Injuries of the genitourinary system. Selected lectures on clinical oncology. / Under the editorship of Chissov V.I., Daryalova S.L., M., 2008.
2. Clinical guidelines. Urology. - M.: GEOTAR-Media, 2007. - 388 p.
3. Bely, L.E. Emergency urology. Guide for doctors. - M.: Medical Information Agency, 2011. - 480 p.

Internet (based) sources

- 1. Electronic libraries with access for RUDN students:
 - Electronic library network of RUDN – ELN RUDN <http://lib.rudn.ru/MegaPro/Web>
 - ELN «University Library online» <http://www.biblioclub.ru>
 - ELN Urait <http://www.biblio-online.ru>
 - ELN «Student Advisor» www.studentlibrary.ru
 - ELN «Lan» <http://e.lanbook.com/>
- 2. Databases and search engines:
 - electronic fund of legal and regulatory and technical documentation <http://docs.cntd.ru/>
 - search system Yandex <https://www.yandex.ru/>
 - search system Google <https://www.google.ru/>
 - abstract database SCOPUS <http://www.elsevierscience.ru/products/scopus/>

Training toolkit for self- studies to master the course *:

1. The set of lectures on the course “Endoscopic Urology”

* The training toolkit for self- studies to master the course is placed on the course page in the university telecommunication training and information system under the set procedure.

8. ASSESSMENT TOOLKIT AND GRADING SYSTEM* FOR EVALUATION OF STUDENTS' COMPETENCES LEVEL UPON COURSE COMPLETION

The assessment toolkit and the grading system* to evaluate the competences formation level (GPC- 4, 5, 6, 11; GC-8, GC-20, GC-22) upon the course study completion are specified in the Appendix to the course syllabus.

* The assessment toolkit and the grading system are formed on the basis of the requirements of the relevant local normative act of RUDN University (regulations / order).

DEVELOPERS:

Associate Professor of the Department of Urology	_____	I.V. Vinogradov
position, department	signature	name and surname

HEAD OF EDUCATIONAL DEPARTMENT:

of Urology	_____	A.A. Kostin
name of the department	signature	name and surname

HEAD OF HIGHER EDUCATION PROGRAMME:

First Deputy Director of MI for Academic Affairs	_____	Iv.V.Radysh
position, department	signature	name and surname