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# APPROVED

by the Academic Board of the Institute for Medicine, Ecology and Physical Education at Alexanovsk State University May 18<sup>th</sup> 2024r. Record №9/260

Chairperson

V.V. Mashin surname, initials

# **EDUCATIONAL PLAN**

Discipline	Topical issues of fndrology		
Faculty	Medical faculty of T.Z. Biktimirov		
Name of department	Department of hospital surgery, anesthesiology, reanimatology, urology, traumatology, orthopedics		
Course	4		

Direction (specialty) 31.05.01 General medicine
the code of the direction (specialty), full name
Orientation (profile/specialty) not provided
full name
Form of trainingfull-time
full-time, part-time, part-time (specify only those that are being implemented)
Date of introduction into the academic process at Ulyanovsk State University: 2908.2024
Revised at the Department meeting, Record Noof ~ » 20
Revised at the Department meeting, Record Noof ~ » 20
Revised at the Department meeting, Record Noof ~ ~ 20
Information about the authors:

Initials	Abbreviation of the department	Degree, scientific rank
Klochkov V.V.	Department of hospital surgery, anesthesiology, reanimatology, urology, traumatology, orthopedics	Professor, MD, Associate Professor

Agreed	Agreed
Head of department, developing discipline	Head of the graduating Department
/Midlenko V.I. / Signature Full name	M. OfteelVice-Khripunova M.A/ Signature Full name
«13» Мау 2024 г.	«13» May 2024 г.

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# The purpose of teaching andrology.

To form students' knowledge about diseases of the male reproductive system, the causes of male infertility, factors contributing to the development of sexual disorders in men, as well as modern methods of diagnosis and treatment in andrology.

# The tasks of studying andrology.

To form students' understanding of the embryogenesis of male genitalia.

The idea of hormonal regulation of the male body.

To give an idea of the basic concepts of spermatology.

To form knowledge about the mechanisms of development of male infertility and sexual disorders in men.

To teach students methods of prevention and metaphylaxis of male infertility and sexual disorders in men.

To form students' understanding of menopausal disorders in men.

To teach students to correctly diagnose and provide therapeutic measures to patients with diseases of the male reproductive system.

The main focus of teaching andrology is the study of diseases of the male reproductive system and their complications (violation of spermatogenesis, pathology of sperm), features of metabolism and hormonal regulation of the male body, the study of the pathogenesis of disorders of sexual function.

#### 1. THE PLACE OF DISCIPLINE IN THE STRUCTURE OF THE OPOP:

The discipline "Topical issues of andrology" refers to the disciplines of the choice of the curriculum of the specialty 31.05.01 "General medicine". B1.V.DV.04.02, studied in the 5th year in the 10th semester.

The study of the discipline "Topical issues of andrology" is preceded by: biology, anatomy, biochemistry, histology, embryology, cytology, embryonic development of body tissues, psychology and pedagogy of medical activity, normal physiology, microbiology, virology, propaedeutics of internal diseases, general surgery, immunology, physiology of visceral systems, hygiene, pharmacology, pathophysiology, clinical pathophysiology, propaedeutics of children's diseases, pathological anatomy, clinical anatomy, fundamentals of the formation of children's health, topographic anatomy and operative surgery, radiation diagnostics, faculty therapy, occupational diseases, faculty surgery, urology, dermatovenerology, otorhinolaryngology, neurology, medical genetics, obstetrics and gynecology, faculty pediatrics, endocrinology, pediatric surgery, dentistry, neonatology, neurosurgery.

Knowledge, skills and competencies in these disciplines are determined by the requirements for their development at the previous departments and are controlled by the definition of the input knowledge of the study of andrology.

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# 2. THE LIST OF PLANNED LEARNING OUTCOMES IN THE DISCIPLINE (MODULE), CORRELATED WITH THE PLANNED RESULTS OF THE DEVELOPMENT OF THE EDUCATIONAL PROGRAM

# As a result of studying the discipline, the student must:

#### To know:

- 1. The structure and functions of the male genitalia.
- 2. Malformations of the male reproductive system, diagnostics, methods of correction.
- 3. The endocrine glands involved in the development and functioning of the male reproductive system.
- 4. Causes and pathogenesis of male infertility.
- 5. Pathological changes in the spermogram.
- 6. Causes, pathogenesis, clinic and diagnosis of sexual disorders in men.
- 7. Clinical manifestations of menopausal disorders in men.

#### Can:

- 1. Interpret the spermogram.
- 2. Diagnose inflammatory diseases of the reproductive system in men and prostate diseases.
- 3. Diagnose the causes of male infertility and sexual disorders in men.

#### **Possess:**

- 1. Palpation of the organs of the scrotum and penis.
- 2. Rectal examination of the prostate gland.
- 3. Taking a smear from the urethra and prostate secretions and their interpretation.
- 4. Interpretation of the spermogram.
- 5. Interpretation of analyses for sexually transmitted diseases (RIF, DNA PCR, ELISA).
- 6. Evaluation of ultrasound and Dopplerography data in diseases of the scrotum and penis.
- 7. Evaluation of the TRUS data for prostate diseases.
- 8. Interpretation of blood hormones (testosterone, FSH, LH, prolactin).

A graduate who has mastered the specialty program within the framework of this program must have professional competencies corresponding to the type (types) of professional activity that the specialty program in medical activity is focused on:

- **able to** carry out a critical analysis of problem situations based on a systematic approach, develop a strategy of action (UK-1);
- **readiness to** collect and analyze patient complaints, medical history data, examination results, laboratory, instrumental, pathoanatomic and other studies in order to recognize the condition or establish the presence or absence of the disease (PC-2);
- readiness to manage and treat patients with various nosological forms in outpatient and day hospital settings (PC-3).

$N_{\underline{0}}$	Compet	The content of the	As a result of s	tudying the discipline	e, students should:
p/p	ence	competence	To know	Can	Possess
	Index	(or part of it)			
1	UK-1	He is able to carry	To know the	Be able to carry	A systematic
		out a critical	cause and	out a critical	approach to the
		analysis of problem	clinical	analysis of	analysis of
		situations based on	manifestations	problematic	problematic

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		a systematic	of problematic	situations,	situations
		approach, to	situations in	develop a strategy	Situations
		develop a strategy	andrological	for dealing with	
		of actions	patients	problematic	
				situations	
2	PC-2	Readiness to	The diagnostic	Conduct a survey,	Methods of clinical
		collect and analyze	significance of	physical	examination of the
		patient complaints,	the changes	examination of	patient,
		medical history	detected during	the patient;	interpretation of the
		data, examination	the clinical	interpret the	results of additional
		results, laboratory,	examination of	results of	research methods,
		instrumental,	the patient, the	laboratory and	algorithm for
		pathoanatomic and	use of laboratory	instrumental	substantiating the
		other studies in	and instrumental	diagnostics and	preliminary and
		order to recognize	diagnostic	use them in	clinical diagnosis
		the condition or	methods.	substantiating the	
		establish the		clinical diagnosis.	
		presence or			
		absence of the			
		disease			
3	PC-3	The ability to	Causes, clinical	Diagnose	Methods of
	100	determine in	manifestations	diseases of the	diagnosis of the
		patients the main	for the diagnosis	reproductive	main clinical
		pathological	of andrological	system in men	syndromes in
		conditions,	pathology in	on an outpatient	andrology.
		symptoms, disease	outpatient and	basis and in a	An analysis
		syndromes,	day hospital	day hospital.	algorithm for
		nosological forms	conditions.		making a detailed
		in outpatient and			clinical diagnosis
		day hospital			with diseases of the
		conditions.			reproductive
					system in men in
					outpatient and day
					hospital conditions.

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# 3. THE SCOPE OF THE DISCIPLINE

# 3.1. The amount of discipline in credits (total) 2 ZET 72 hours

# 3.2. by type of academic work (in hours)

Type of educational weath	Number of hours (form of study72 hours)			
Type of educational work	Total according to plan	Including semesters		
	Total according to plan	Semester no. 1;2		
1	2	3		
Contact work of students with				
the teacher	54	2		
Classroom classes:	54	54		
Lectures	-	-		
practical and seminar classes	54	54		
laboratory work (laboratory	-	-		
workshop)				
Independent work	18	18		
Current control (quantity and				
type: counter.work, colloquium,				
abstract)				
Course paper	-	-		
Types of intermediate	credit	credit		
certification (exam, credit)				
Total hours by discipline	72	72		

# 3.3. The content of the discipline (module.) Distribution of hours by topics and types of academic work:

Form of study \_\_full-time\_\_\_\_\_

			Туре	s of training ses	sions	
Name of sections	C		Classroom classes		Classes in	
and topics	Total	lectures	practical classes, seminar	laboratory work	an interactive form	Independe nt work
1	2	3	4	5	6	7
Section 1. Anatomy and physiology of the male reproductive system						
1. Anatomy of the						
male reproductive						
system			1,5	_	0,15	0,5
2. Physiology of						
the male						
reproductive			1,5	_	0,15	0,5
system						
3. Methods of						
examination of the	8	_				
reproductive			1,5	_	0,15	0,5

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system in men						
4. Assessment of						
			1,5	_	0,15	0,5
psychological status. Assessment			1,3		0,13	0,5
of sexual						
development.		16 4.	<u> </u>	• 4 1		
Section 2. Embryol	ogy and m	ialformation 	s of male gen	utal organs		
Embryogenesis:						
1. Development of						
the sex glands;						
2. Development of			3	_	0,3	1
internal sex glands;						
3. Development of						
external genitalia.						
Malformations of			3		0,3	1
development:				_	,	
1. Anomalies of	8	_				
testicular position						
(cryptorchidism);						
2. Anomalies of						
the structure and						
number of						
testicles;						
3.Hypospadias;						
4. Epispadia;						
5. Hidden penis;						
6. Phimosis, a						
short frenulum of						
the penis.						
	antowy dia	oogog o <b>f th</b> o r	 	a waa wa		
Section 3. Inflamn 1.Inflammatory	latory dis	eases of the i	naie gemiai (	organs 		
•						
diseases of the			1		0.1	0.2
urethra			1	_	0,1	0,3
2. Inflammatory						
diseases of the			1		0.1	0.2
prostate gland			1	_	0,1	0,3
3. Inflammatory			_		0.4	2.2
diseases of the			1	_	0,1	0,3
scrotum						
4. Inflammatory	0					
diseases	8	_				
of seminal vesicles						
and seminal			1	_	0,1	0,3
tubercle						
5. Inflammatory						
diseases of the			1	_	0,1	0,3
penis						
6. Fournier's	1					-

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**Section 7. Male infertility** 

1.Spermatogenesis.

diagnosis of male

Pathospermia.
2. Etiology, pathogenesis,

Form

0,2

0,2

0,66

0,66



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	1	1	1 4	1	0.1	
gangrene.			1	_	0,1	0,3
Section 4. Male gen	ital injuri	ies	1			_
1. Damage to the						
urethra			2 2	_	0,2	0,66
2. Damage to the			2	_	0,2	0,66
organs of the	8	_				
scrotum						
3. Damage to the			2	_	0,2	0,66
penis						
Section 5. Neoplasm	ns of the n	nale genital o	organs			
1. Benign prostatic						
hyperplasia.						
			1,5	_	0,15	0,5
2. Prostate cancer.						
	8	_	1,5	_	0,15	0,5
3. Testicular			1,5	_	0,15	0,5
tumors.						
4. Tumors of the	1		1,5	_	0,15	0,5
penis						
Section 6. Psycholo	gy and ph	ysiology of h	uman sexua	l life. Sexual d	isorders in 1	nen.
1. Physiology and						
psychology of			2	_	0,2	0,66
sexual intercourse.					ŕ	,
2. Erectile	1		2	<b>1</b> –	0,2	0,66
dysfunction.	8	_			ĺ	
3. Disorders of			2	_	0,2	0,66
male orgasm and					ĺ	ĺ
ejaculation.						

infertility.						
3. Treatment of						
male infertility.			2	_	0,2	0,66
Section 8. Urgent co	onditions	and other dis	seases in and	rology		
1. Priapism			1	_	0,1	0,3
2. Twisting of the			1	_	0,1	0,3
testicle						
3. Paraphimosis			1	_	0,1	0,3
4. Acute urinary	8	_				
retention in men.			1	_	0,1	0,3
5. Peyronie's			1	_	0,1	
disease.						0,3
6. Oleogranuloma			1	_	0,1	0,3
of the penis.						

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Section 9. Delayed sexual development and male hypogonadism

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1. Androgens and their role in the male body.			2	-	0,2	0,66
2. Hypogonadism					0,2	0,66
in men			2	_		
(andropause)	8	_				
3. Pathology of						
sex. Surgical					0,2	0,66
correction of the			2	_		
floor.						
Credit						
Total: 72 hours	72	_	54	_	6	18

When organizing classes in an interactive form, technologies are used: collective discussion of the topic of the lesson, presentation of the report.

#### 4. THE CONTENT OF THE COURSE OF LECTURES

Lectures are not provided

#### 5. TOPICS OF PRACTICAL AND SEMINAR CLASSES

# Section 1. Anatomy and physiology of the male reproductive system

Topic 1. Anatomy of the male reproductive system Anatomy of the penis, urethra;

Anatomy of the accessory sex glands: prostate gland, seminal vesicles, bulbourethral glands, paraurethral glands.

Anatomy of the scrotum and its organs: testicle, appendage, spermatic cord.

Anatomy of the vas deferens, the vas deferens. Anatomy of the hydatid of the testicle, appendage and ducts.

# Topic 2. Physiology of the male reproductive system

Physiology of the penis, phases of erection;

Physiology and functions of the urethra

Physiology and functions of the prostate gland

Physiology and functions of seminal vesicles and seminal tubercle

Physiology and functions of the bulbous-urethral gland (Cooper's gland)

Physiology and functions of the testicle and its appendage

Physiology and functions of the vas deferens

Physiology and functions of the spermatic cord

Physiology and functions of the scrotum

#### Topic 3. Methods of examination of the reproductive system in men

Assessment of the condition of the testicles

Evaluation of external genitalia

Assessment of the stage of sexual development

Definition of body type

Study of the content of gonadotropins and sex hormones in the blood and their metabolites in the urine, taking into account the daily rhythms

Visualization of testicles and prostate in men (ultrasonography)

Diagnostic laparoscopy for hermaphroditism and congenital cryptorchidism Sperm research

Testicular biopsy (performed if a tumor and testicular dysgenesis are suspected)

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# Topic 4. Assessment of sexological status. Assessment of sexual development.

Collecting anamnesis.

Examination of the external genitalia.

Questionnaires and questionnaires: male sexual formula; international index of erectile function; scale of quantitative assessment of male copulatory function (MCF)

Laboratory diagnostics: ejaculate microscopy; biochemical analysis of seminal plasma; PSA study; blood acid phosphatase level study; hormonal studies in blood plasma (FSH, LH, prolactin, testosterone, estradiol)

Instrumental research methods:Ultrasound of the scrotum and prostatovesicular complex; duplex scanning of penile vessels; measurement of nocturnal penile tumescence; morphometry of external genitalia.

X-ray methods: cavernosography, MRI.

Diagnostic andrological operations: testicular biopsy; revision of inguinal canals; vesiculography, revision of scrotum organs.

Puberty (stages of sexual development according to Tanner, classification of stages of puberty in boys, assessment of the stage of sexual development in boys)

# Section 2. Embryology and malformations of male genital organs Topic 1. Embryogenesis of the genitals in men

- 1. Development of the sex glands
- 2.Development of internal sex glands
- 3. Development of external genitalia

# Topic 2. Anomalies of the development of the organs of the male reproductive system. Clinic, diagnosis, treatment.

Penile abnormalities: hidden penis; webbed penis;

phimosis; synechiae; paraphimosis;

Testicular anomalies: position anomalies (cryptorchidism)

Quantitative testicular anomalies: polyorchism; sinorhidism; monorhism

(unilateral testicular agenesis); anarchism (gonadal agenesis)

Structural abnormalities of the testicles: hermaphroditism (bisexuality); syndrome

feminizing testicles; Klinefelter syndrome (dysgenesis

of the seminal canals); Shereshevsky-Turner syndrome

Secondary testicular dysfunction: adiposogenital dystrophy; syndrome

Noonan; Cullman de Mercier syndrome; Laurence-Moon-Bardet-Beadle syndrome

Anomalies of the urethra: hypospadias; epispadias

#### Section 3. Inflammatory diseases of the male genital organs

Topic 1. Inflammatory diseases of the urethra

Topic 2. Inflammatory diseases of the prostate gland

Topic 3. Inflammatory diseases of the scrotum

Topic 4. Inflammatory diseases of seminal vesicles and seminal tubercle

Topic 5. Inflammatory diseases of the penis

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Topic 6. Fournier's gangrene

# Section 4. Male genital injuries.

Topic 1. Damage to the urethra: closed damage,

open lesions, urethral strictures

Topic 2. Damage to the organs of the scrotum: closed damage, open

damage

Topic 3. Penile injuries: closed, open injuries

# Section 5. Neoplasms of the male genital organs

- Topic 1. Benign prostatic hyperplasia.
- Topic 2. Prostate cancer.
- Topic 3. Testicular tumors
- Topic 4. Penile tumors

# Section 6. Psychology and physiology of human sexual life. Sexual disorders in men.

- Topic 1. Physiology and psychology of sexual intercourse.
- Topic 2. Erectile dysfunction.
- Topic 3. Disorders of male orgasm and ejaculation.

#### **Section 7. Male infertility**

- Topic 1. Spermatogenesis. Pathospermia.
- Topic 2. Etiology, pathogenesis, diagnosis of male infertility.
- Topic 3. Treatment of male infertility.

### Section 8. Urgent conditions and other diseases in andrology

- Topic 1.Priapism
- Topic 2. Testicle twisting
- Topic 3. Paraphimosis
- Topic 4. Acute urinary retention in men.
- Topic 5. Peyronie's disease.
- Topic 6. Oleogranuloma of the penis.

### Section 9. Delayed sexual development and male hypogonadism

Topic 1 .Delayed sexual development in boys

Classification and characteristics of the main forms of ZPR in boys; clinical

forms of delayed sexual development in boys and adolescents, laboratory methods

for delayed sexual development and hypogonadism; treatment of delayed sexual development of hypogonadism; medical examination of boys and adolescents with delayed sexual development

Topic 2. Androgens and their role in the male body.

Topic 3 . Hypogonadism in men, andropause

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Hypergonadotropic (primary) hypogonadism; hypogonadotropic (secondary and tertiary) hypogonadism, normogonadotropic hypogonadism. Andropause

Topic 4. Pathology of sex. Surgical correction of the floor.

### 6. LABORATORY WORK (LABORATORY WORKSHOP)

# Not provided

### 7. TOPICS OF TERM PAPERS, CONTROL PAPERS, ABSTRACTS

- 1. Theme: Embryogenesis of external and internal male genitalia
- 2. Theme: Assessment of the sexological status. Assessment of sexual development.
- 3. Theme: Spermatogenesis. Pathospermia.
- 4. Theme: Surgical correction of sex.
- 5. Theme: Fournier's gangrene. Oleogranuloma of the penis, clinic, diagnosis, treatment
- 6. Theme: Peyronie's disease, Priapism. Clinic, diagnosis, treatment.
- 7. Theme: Androgens and their role in the male body. Menopausal syndrome in men.
- 8. Theme: Psychology and physiology of human sexual life.

#### 8. INDEPENDENT WORK OF STUDENTS

Independent work of students is divided into extracurricular and classroom. In addition, practical skills are obtained and practiced during the contact work of students with a teacher in the form of interactive forms of learning. Independent study of the topic section involves the control of theoretical training in a practical lesson, a test and a final exam.

- \* Classroom section of the SRS. At each practical lesson patient curation on the topic under study, working out the methods of examination of the patient, highlighting the leading clinical syndrome complexes, interpretation of laboratory and instrumental data, analysis of endoscopic, ultrasound, X-ray data, CTG, MRI, angiograms, etc. Assessment of physical data in andrological pathology. Curation of patients. Drawing up plans for examination and treatment of the patient, carrying out a differential diagnosis according to the leading syndromes and signs of diseases.
  - \*\* Extracurricular section topics of self-study.
- \*\*\* Topics of interactive learning in the simulation class of IMEaPC (Institute of Medicine Ecology and Physical Culture) UlSU. \*\*\* Development of practical skills in andrology on the basis of a simulation course. Palpation of the external genitalia, prostate gland, catheterization of the bladder, preparation for laparoscopic surgery.

# 8.1 Abstracts for the control of independent work of students

- 1. Theme: Embryogenesis of external and internal male genitalia
- 2. Theme: Assessment of the sexological status. Assessment of sexual development.
- 3. Theme: Spermatogenesis. Pathospermia.
- 4. Theme: Surgical correction of sex.
- 5. Theme: Fournier's gangrene. Oleogranuloma of the penis, clinic, diagnosis, treatment
- 6. Theme: Peyronie's disease, Priapism. Clinic, diagnosis, treatment.
- 7. Theme: Androgens and their role in the male body. Menopausal syndrome in men.

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8. Theme: Psychology and physiology of human sexual life.

# 9. EDUCATIONAL-METHODOLOGICAL AND INFORMATION SUPPORT OF THE DISCIPLINE

- a) List of recommended literature main
- b) Professed data base, directory and search systems:
- 1 Андреева М. В. Diseases of the urinary tract, kidney and pregnancy = Заболевания мочевыводящих путей, почек и беременность : study quide / М. В. Андреева, Е. П. Шевцова, Ж. С. Мартинсон. Волгоград : ВолгГМУ, 2021. 88 с. ISBN 9785965206308. Текст : электронный // ЭБС "Букап" : [сайт]. URL : <a href="https://www.books-up.ru/ru/book/diseases-of-the-urinary-tract-kidney-and-pregnancy-13816236/">https://www.books-up.ru/ru/book/diseases-of-the-urinary-tract-kidney-and-pregnancy-13816236/</a>
- 2 Белякова Е. В. Main syndromes in nephrology = Основные синдромы в нефрологии : учебное пособие для студентов II—III курсов лечебного факультета : methodic material is recommended for medical students (II and III years) / Е. В. Белякова, Д. Н. Емельянов, В. В. Скворцов. Волгоград : ВолгГМУ, 2022. 72 с. ISBN 9785965207862. Текст : электронный // ЭБС "Букап" : [сайт]. URL : https://www.books-up.ru/ru/book/main-syndromes-in-nephrology-15846414/

#### Additional literature:

- 1 Smirnova A. Yu. Basis of functional and laboratory diagnostics: textbook of medicine for medicine faculty students / Smirnova A. Yu., V. V. Gnoevykh; Ulyanovsk State University, Insitute of Medicine, Ecology and Physical culture. Ulyanovsk: ULSU, 2018. 163 р.: ill. Текст на англ. яз. URL: http://lib.ulsu.ru/MegaPro/Download/MObject/1237 . Режим доступа: ЭБС УлГУ. Текст: электронный.
- 2 Рогова Л. Н. Diagnostic hemostasis and thrombosis tests / Л. Н. Рогова. Волгоград : ВолгГМУ, 2019. 76 с. Текст : электронный // ЭБС "Букап" : [сайт]. URL : https://www.books-up.ru/ru/book/diagnostic-hemostasis-and-thrombosis-tests-9756585/

Educational- methodical:

Klochkov V. V.

Guidelines for the organization of independent work of students in the discipline "Urology and andrology" for the specialty 31.05.01 "General medicine" (with the development of the program in English) / V. V. Klochkov; Ulyanovsk State University. - 2022. - 32 р. - Неопубликованный ресурс; На англ. яз. - URL: http://lib.ulsu.ru/MegaPro/Download/MObject/13616. - Режим доступа: ЭБС УлГУ. - Текст: электронный.

11. 00

AGREED:

Leading specialist	Стадо	ольникова/		2024_
The position of the worker scientif	fic library	Full name	signature	date

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Профессиональные базы данных, информационно-справочные системы

#### 1. Электронно-библиотечные системы:

- 1.1. Цифровой образовательный ресурс IPRsmart : электронно-библиотечная система : сайт / ООО Компания «Ай Пи Ар Медиа». Саратов, [2024]. URL: http://www.iprbookshop.ru. Режим доступа: для зарегистрир. пользователей. Текст : электронный.
- 1.2. Образовательная платформа ЮРАЙТ : образовательный ресурс, электронная библиотека : сайт / ООО Электронное издательство «ЮРАЙТ». Москва, [2024]. URL: https://urait.ru . Режим доступа: для зарегистрир. пользователей. Текст : электронный.
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Инженер ведущий

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#### 10. MATERIAL AND TECHNICAL SUPPORT OF THE DISCIPLINE:

Lecture halls, a study room for seminars, for conducting ongoing monitoring and intermediate attestation, group and individual consultations.

The classrooms are equipped with specialized furniture, a blackboard. Lecture halls are equipped with multimedia equipment to provide information to a large audience. The premises for independent work are equipped with computer equipment with the ability to connect to the Internet and provide access to an electronic information and educational environment, an electronic library system.

#### 11. SPECIAL CONDITIONS FOR STUDENTS WITH DISABILITIES

If necessary, students from among persons with disabilities (at the request of the student) may be offered one of the following options for the perception of information, taking into account their individual psychophysical characteristics:

( for persons with visual impairments: in printed form with enlarged font; in the form of an electronic document; in the form of an audio file (translation of educational materials into audio format); in printed form in Braille; individual consultations with the involvement of a typhoid translator; individual assignments and consultations; ( for persons with hearing impairments: in printed form; in the form of an electronic document; video materials with subtitles; individual consultations with the involvement of a sign language interpreter; individual tasks and consultations; ( for persons with disorders of the musculoskeletal system: in printed form; in the form of an electronic document; in the form of an audio file; individual assignments and consultations.

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Bluer

Associate Professor Vladimir Valerievich Klochkov

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