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

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

COURSE SYLLABUS

Obstetrics

course title

Recommended by the Didactic Council for the Education Field of:

31.05.03 «Dentistry»

field of studies / speciality code and title

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

Dentistry

higher education programme profile/specialisation title

1. COURSE GOAL(s)

The goal of the course Obstetrics is to familiarize and study the basics of organizing obstetric and gynecological care in the Russian Federation, the basics of organizing and regulating the menstrual cycle, and the basics of obstetric aid.

The objectives of the discipline are:

- Acquisition students' knowledge structure of medical care for pregnant and gynecological patients.
- Acquisition by students of knowledge about the anatomical and physiological features of the female body in the reproductive period.
- The study by students of research methods in obstetrics, physiology of pregnancy, childbirth and the postpartum period.

2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Obstetrics" is aimed at the development of the following competences /competences in part: GC-1, GPC-5, GPC-6; GPC-7; GPC-8;GPC-9; GPC-13; PC-1.

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

Competence code	Competence descriptor	Competence formation indicators (within this course)
GC-1	Being able to implement critical analysis of problem situations based on systems approach, develop an action strategy.	GC-1.1. Analysing the problem situation as a system identifying its components and links between them.
		GC-1.2. Defining gaps in the information required to deal with a problem situation and designing processes to address them.
		GC-1.3. Assessing in a critical way the reliability of information sources; working with contradictory information from different sources.
		GC-1.4. Developing and giving meaningful reasons for and against a strategy for solving a problem situation in terms of a systematic and interdisciplinary approaches.
		GC-1.5. Using logical and methodological tools for critical assessment of the modern concepts of a philosophical and social nature in the relevant field of study.
GPC-5	Capable of examining the patient in order to put the diagnosis in solving professional tasks.	GPC-5.8. Makes the differential diagnostic with other diseases/conditions, including emergencies.
		GPC-5.9. Put the diagnosis based on the International classification of diseases
GPC-6	Capable of prescribing, monitoring the effectiveness and safety of pharmacological and non- pharmacological treatment in solving professional tasks	GPC-6.3. Evaluates the possible side effects of medications
GPC-7	Capable of organizing the work and making professional decisions in emergency conditions, in extreme situations, epidemics and in the foci of massive destruction	GPC-7.1. Owns an algorithm for the providing first medical care in emergency conditions, including extreme conditions and foci of massive destruction
		GPC-7.2. Detects the conditions requiring emergency medical care, including clinical signs of sudden cessation of blood circulation and breathing

		GPC-7.3. Provides medical for the patients with life threatening conditions, including clinical death (stopping of the vital functions of the human body (blood circulation and breathing))
		GPC-7.4. Uses medications and medical products for medical care in emergencies
GPC-8	Capable of using basic physical and chemical, mathematical and natural science concepts and methods in solving professional tasks	GPC-8.1. Applies the main fundamental physicochemical knowledge to solve professional problems
		GPC-8.2. Uses applied natural science knowledge to solve professional problems
		GPC-8.3. Uses fundamental mathematical knowledge to solve professional problems
GPC-9	Capable of evaluating morphofunctional, physiological states and pathological processes in the human body to solve professional tasks	GPC-9.1. Owns the algorithm of clinical, laboratory and functional diagnostics in solving professional problems
		GPC-9.2. Evaluates the results of clinical, laboratory and functional diagnostics in solving professional problems
		GPC-9.3. Determines morphofunctional, physiological states and pathological processes of the human body.
GPC-13	Capable of solving standard tasks of professional activities using information, bibliographic resources, biomedical terminology, information and communication technologies, taking into account the basic requirements of information security	GPC-13.1. Uses information technologies in professional activities and complies with information security rules in professional activities
		GPC-13.2. Complies with information security rules in professional activities.
PC-1	Capable of examining the patient in order to put the diagnosis.	PC-1.1. Conducts initial and/or re-examination of the patient in order to establish the presumptive diagnosis
		PC-1.2. Receives information from patients (the relatives/legal representatives), conducts a survey of patients about the general health, identification of concomitant diseases in order to establish the presumptive diagnosis.

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*
GC-1.1.	. Analysing the problem situation as a system identifying its components and links between them.	-	-
GC-1.2.	Defining gaps in the information required to deal with a problem situation and designing processes to address them.	-	-
GC-1.3.	Assessing in a critical way the reliability of information sources; working with contradictory information from different sources.	-	-
GC-1.4	Developing and giving meaningful reasons for and against a strategy for solving a problem situation in terms of a systematic and interdisciplinary approaches.	-	-
GPC-5.8.	Makes the differential diagnostic with others diseases/conditions, including emergencies.	Pathological anatomy - Pathological anatomy of the head and neck; Internal illnesses; Dermato-venereology; Neurology; Ophthalmology	Pediatrics; Gnathology and functional diagnostics of the temporal mandibular joint; Dental prosthetics (simple prosthetics); Prosthetics in the complete absence of teeth; Dental prosthetics (complex prosthetics); Pediatric maxillofacial surgery; Maxillofacial prosthetics; Children's dentistry; Orthodontics and children's prosthetics; Emergency conditions in outpatient dental practice; Medical genetics in dentistry

GPC-5.9.	Put the diagnosis based on the International classification of diseases	Pathological anatomy - Pathological anatomy of the head and neck; Internal illnesses; Dermato-venereology	Cariesology and diseases of hard tissues of teeth; Endodontics; Gerontostomatology and diseases of the oral mucosa; Periodontology; Gnathology and functional diagnostics of the temporal mandibular joint; Prosthetics in the complete absence of teeth; Dental prosthetics (complex prosthetics); Pediatric maxillofacial surgery; Maxillofacial prosthetics; Children's dentistry; Orthodontics and children's prosthetics; Emergency conditions in outpatient dental practice; Medical genetics in dentistry; Modern endodontics
GPC-6.3.	Evaluates the possible side effects of medications	Immunology, clinical immunology; Pharmacology; Internal illnesses; Clinical pharmacology; General surgery; surgical diseases; Life safety; Dermato-venereology; Psychiatry and narcology	Children's dentistry; Orthodontics and children's prosthetics; Medical rehabilitation
GPC-7.1.	Owens an algorithm for the providing first medical care in emergency conditions, including in extreme conditions and foci of massive destruction	General surgery; Surgical diseases; Emergency Medicine	Maxillofacial and gnathic surgery; Diseases of the head and neck; Topographic anatomy and operative head and neck surgery; Medical rehabilitation; Implantology and reconstructive oral surgery

GPC-7.2.	Detects the conditions requiring emergent medical care, including clinical signs of sudden cessation of blood circulation and breathing	General surgery; Surgical diseases; Emergency Medicine	Maxillofacial and gnathic surgery; Diseases of the head and neck; Topographic anatomy and operative head and neck surgery; Medical rehabilitation; Implantology and reconstructive oral surgery
GPC-7.3.	Provides medical for the patients with life-threatening conditions, including clinical death (stopping of the vital functions of the human body (blood circulation and breathing))	Emergency Medicine	Topographic anatomy and operative head and neck surgery; Emergency conditions in the ambulatory dentistry Medical rehabilitation
GPC-7.4.	Uses medications and medical products for medical care in emergencies	Emergency Medicine	Topographic anatomy and operative head and neck surgery; Emergency conditions in the ambulatory dentistry Medical rehabilitation
GPC-8.1.	Applies the main fundamental physicochemical knowledge to solve professional problems	Mathematics; Physics	Materials Science; Innovative technologies in dentistry; Physiotherapy of dental diseases; Chemistry of biogenic elements
GPC-8.2.	Uses applied natural science knowledge to solve professional problems	Physics; Biology	Innovative technologies in dentistry; Physiotherapy of dental diseases; Dental modeling of teeth
GPC-8.3.	Uses fundamental mathematical knowledge to solve professional problems	Mathematics; Physics	

GPC-9.1.	Owens the algorithm of clinical, laboratory and functional diagnostics in solving professional problems	Biological chemistry - Biochemistry of the oral cavity; Histology, embryology, cytology - Histology of the oral cavity; Normal physiology, physiology of the maxillofacial region; Microbiology, virology - Microbiology of the oral cavity; Pathophysiology - Pathophysiology of the head and neck; Forensic Medicine	Local anesthesia and anesthesiology in dentistry; Oral surgery; Maxillofacial and gnathic surgery; Diseases of the head and neck; Children's dentistry; Orthodontics and children's prosthetics; medical rehabilitation; Implantology and reconstructive oral surgery
GPC-9.2.	Evaluates the results of clinical, laboratory and functional diagnostics in solving professional problems	Histology, embryology, cytology - Histology of the oral cavity; Normal physiology, physiology of the maxillofacial region; Microbiology, virology - Microbiology of the oral cavity; Pathophysiology - Pathophysiology of the head and neck; Radiation diagnostics; Forensic Medicine	Local anesthesia and anesthesiology in dentistry; Oral surgery; Maxillofacial and gnathic surgery; Diseases of the head and neck; Children's dentistry; Orthodontics and children's prosthetics; medical rehabilitation; Implantology and reconstructive oral surgery
GPC-9.3.	Determines morphofunctional, physiological states and pathological processes of the human body.	Biological chemistry - Biochemistry of the oral cavity; Human Anatomy - Anatomy of the head and neck; Histology, embryology, cytology - Histology of the oral cavity; Normal physiology, physiology of the maxillofacial region; Microbiology, virology - Microbiology of the oral cavity; Pathological anatomy - Pathological anatomy of the head and neck; Pathophysiology - Pathophysiology of the head and neck; Ophthalmology; Forensic Medicine	Children's dentistry; Orthodontics and children's prosthetics; Topographic anatomy and operative head and neck surgery; medical rehabilitation; Medical elementology; Bioelements in medicine

GPC-13.1.	Uses information technologies in professional activities and complies with information security rules, information and communication means and technologies in professional activities	Physics; Medical Informatics; Human Anatomy - Anatomy of the head and neck; Pharmacology	Medical rehabilitation; Chemistry of biogenic elements
GPC-13.2.	Complies with information security rules in professional activities.	Physics; Medical Informatics; Human Anatomy - Anatomy of the head and neck; Pharmacology	Medical rehabilitation;

PC-1.1.	Conducts initial and/or re-examination of the patient in order to establish the presumptive diagnosis	Immunology, clinical immunology; Life safety; Otorhinolaryngology	Propaedeutics of dental diseases; Cariesology and diseases of hard tissues of teeth; Endodontics; Gerontostomatology and diseases of the oral mucosa; Periodontology; Local anesthesia and anesthesiology in dentistry; Oral surgery; Gnathology and functional diagnostics of the temporal mandibular joint; Dental prosthetics (simple prosthetics); Prosthetics in the complete absence of teeth; Dental prosthetics (complex prosthetics); Maxillofacial and gnathic surgery; Diseases of the head and neck; Pediatric maxillofacial surgery; Maxillofacial prosthetics; Children's dentistry; Orthodontics and children's prosthetics; Medical genetics in dentistry; medical rehabilitation; Implantology and reconstructive oral surgery; Modern endodontics; Aesthetic restoration of teeth;
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PC-1.2.	Receives information from patients (their relatives/legal representatives), conducts a survey of patients about the general health, identification of concomitant diseases in order to establish the presumptive diagnosis	Immunology, clinical immunology; Life safety; Otorhinolaryngology; Ophthalmology	Cariesology and diseases of hard tissues of teeth; Endodontics; Gerontostomatology and diseases of the oral mucosa; Periodontology; Local anesthesia and anesthesiology in dentistry; Oral surgery; Gnathology and functional diagnostics of the temporal mandibular joint; Dental prosthetics (simple prosthetics); Prosthetics in the complete absence of teeth; Dental prosthetics (complex prosthetics); Maxillofacial and gnathic surgery; Diseases of the head and neck; Pediatric maxillofacial surgery; Maxillofacial prosthetics; Children's dentistry; Orthodontics and children's prosthetics; Medical genetics in dentistry; medical rehabilitation; Implantology and reconstructive oral surgery; Modern endodontics
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* To be filled in according to the competence matrix of the higher education programme.

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4. COURSE WORKLOAD AND ACADEMIC ACTIVITIES

The total workload of the course "Obstetrics" is 3 credits (108 academic hours)

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

Type of academic activities	Total academic hours	Semesters/training modules	
		7	
<i>Contact academic hours</i>	51	51	
including:			

Lectures (LC)				
Lab work (LW)		51	51	
Seminars (workshops/tutorials) (S)				
<i>Self-studies</i>		30	30	
<i>Evaluation and assessment (exam/passing/failing grade)</i>		27	27	
Course workload	academic hours	108	108	
	credits	3	3	

* To be filled in regarding the higher education programme correspondence training mode.

5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Course module title	Course module contents (topics)	Academic activities types
Medical care in outpatient female centre. Structure and organization of the work of obstetric hospital.	The concept of "outpatient female center" (OFC). Tasks, functions and structure of OFC. The concept of "obstetric hospital". Levels of rendering obstetric Objectives, functions and structure of "obstetric hospital". Levels of rendering obstetric care in the Russian Federation.	LW
Normal menstrual cycle and its regulation. Family planning. Birth control.	The concept of "normal menstrual cycle" (NMC). Levels of regulation of the NMC. The concept of "family planning, "a board", "contraception". The tasks of the family planning institute. Abortion classification, indications, methods. Classification of contraceptive methods.	LW
Birth canal. Fetus as an object of labor. Obstetric terminology.	The structure of the bone pelvis (muscles and fascia of the pelvic floor). Pelvis planes. The concepts of "full-term" and "mature" fetus. Head dimensions. Obstetric terminology: lie; presentation; attitude; position; visus (type of position).	LW
Obstetric examination (methods of investigations of pregnant and parturient women). Diagnosis of pregnancy. Determination	Pelvimetry. The concept of "true conjugate." Methods for determining the true conjugate. Amniocentesis, chorionic biopsy and cordocentesis -	LW

of gestational age	definitions. The gold standard for diagnosing pregnancy. Reliable signs of pregnancy. Negele's rule and its modifications.	
Mechanism of labor in occiput anterior and posterior presentation	The concept of "mechanism of birth." Fetal movements. The concept of "point of support" and "fixation point". The concepts of "right inner turn" and "wrong inner turn."	LW
Clinics and management of labor in vertex presentation Physiology of the postpartum period. Breech presentation of the fetus. Mechanism and management of labor in breech presentation.	The concepts of "childbirth", "contractions", "attempts." Causes of onset of labor. Periods of labor. The concept of "afterbirth." Determination of physiological blood loss in childbirth. The first toilet of the newborn. The duration of the postpartum period. Modern perinatal technology. The concept of "breech presentation" (BP). BP classification, risk factors, BP diagnosis. Features of labor in the BP.	LW
Multiple pregnancy	The concept of "multiple pregnancy" (MP). Risk factors, classification, diagnosis, complications of MP. Optimal delivery time and methods of delivery in patients with MP.	LW
Pre-eclampsia	The concept of "pre-eclampsia" (PE). Risk factors, classification, pathogenesis, clinic, diagnosis, treatment and prevention of PE.	LW

* - to be filled in only for **full**-time training: *LC* - lectures; *LW* - lab work; *S* - seminars.

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)
Lecture	An auditorium for lecture-type classes, equipped with a set of specialized furniture; board (screen) and technical means of multimedia presentations.	Microsoft pack Enrollment for Education Solutions(EES) № 56278518, 23/04/2019) Guarantee №13A/46/2018, 02/04/2018) Consultant Plus (Contract of support, 01/09/2013) Registration number 40-03-207-

		7474, September 2013. Federal agency for ecologic, technological and atomic surveillance
Seminar	An auditorium for conducting - seminar-type classes, group and - individual consultations, current - control and intermediate certification, equipped with a set of - specialized furniture and technical means for multimedia presentations.-	video projector; wall screen, pointer; auditorium tables; auditorium chairs; computers; multimedia projector; overhead, a set of films for overhead; television; video recorder; visual aids; charts; endoscopic mannequin (3BScientific 1005723); mannequin for breasts palpation (3 different breasts, 3B Scientific1000344). set of material carriers of educational information; set of equipment for connecting to the internet; obstetric forceps; set of tools for training the performance of obstetric and gynecological operations; set of contraceptives; set of dummies; set of histological preparations
Self-studies	An auditorium for independent work of students (self-reading) (can be used for seminars and consultations), equipped with a set of specialized furniture and computers with access to the EIOS.	Microsoft pack Enrollment for Education Solutions(EES) № 56278518, 23/04/2019) Guarantee №13A/46/2018, 02/04/2018) Consultant Plus (Contract of support, 01/09/2013) Registration number uo-03-207-7474, September 2013. Federal agency for ecologic, technological and atomic surveillance
Computer-lab	Computer class for conducting classes, group and individual consultations, current control and intermediate certification, equipped with personal computers, board (screen) and technical means of multimedia presentations.	Standardly equipped lecture halls for interactive lectures: video projector, wall screen, other equipment

* - auditorium for self-reading is MANDATORY mentioned!

7. RESOURCES RECOMMENDED FOR COURSE STUDY

Main readings:

1. Gynecology. Textbook, by V.E. Radzinskiy and A. Fuks. Moscow, edited by MEDIA GEOTAR, 2020, 896 pp
2. Obstetrics / ed. By V.E. Radzinskiy, A.M. Fuks. Ch. G. Gagaev - M.: GEOTAR-Media, 2019. — 880 pp.

Additional readings:

1. Gabbe S.G. **Obstetrics normal and problem pregnancies**. — Philadelphia: Elsevier / Saunders, 2024 — 1280 p.
2. Meriwether Kate, Joey England. **Obstetrics & Gynecology Morning Report: Beyond the Pearls, 1e**. — Elsevier Science, 2018. — 480 p.
3. Barbara L. Hoffman et al. **Williams Gynecology** 4 ed. IE. — McGraw-Hill, 2020. — 1328 p.
4. Cunningham F.G. et al. **Williams Obstetrics** 26 edition. — McGraw-Hill 2022. — 1328 p.
5. **Speroff's Clinical Gynecologic Endocrinology and Infertility** 9th Edition / by Hugh S Taylor MD (Author), Lubna Pal MD MBBS MRCOG MS (Author), Emre Sell MD (Author) / 1487 p.
6. Speroff & Darney's Clinical Guide to Contraception 6th Edition / by Jeffrey T. Jensen (Author), Mitchell D. Creinin (Author) / 500 p.

Resources of the information and telecommunications network "Internet":

1.
 - Electronic library system of RUDN University.
 - Educational Portal of RUDN University: <http://web-local.rudn.ru>.
 - Media bureau StatusPraesens <http://praesens.ru/>
 - TUIS RUDN University <https://esystem.rudn.ru/course/index.php?categoryid=810>.
2. Data bases and browsers:
 - electronic fund of legal and normative-technical documentation: <http://docs.cntd.ru/>
 - Yandex browser: <https://www.yandex.ru/>
 - Google browser: <https://www.google.ru/>
 - SCOPUS <http://www.elsevierscience.ru/products/scopus/>

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 (GC-1, GPC-5, GPC-6; GPC-7; GPC-8; GPC-9; GPC-13; PC-1.) 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:

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of the Department**

position, department

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