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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**

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

**COURSE SYLLABUS**

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Obstetrics

course title

**Recommended by the Didactic Council for the Education Field of:**

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31.05.03 Dentistry

field of studies / speciality code and title

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

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Dentistry

higher education programme profile/specialisation title

**2024-2025**

## 1. COURSE GOAL(s)

The goal of the course "Obstetrics" is to equip students with the basics of obstetrical and gynecological care in Russian Federation, the basics and regulation of normal menstrual cycle.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Obstetrics" is aimed at the development of the following competences /competences in part: 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*

<b>Competence code</b>	<b>Competence descriptor</b>	<b>Competence formation indicators (within this course)</b>
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 others 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 in extreme conditions and foci of massive destruction
		GPC-7.2. Detects the conditions requiring emergent 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, information and communication means and technologies 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 (their relatives/legal representatives), conducts a survey of patients about the general health, identification of concomitant diseases in order to establish the presumptive diagnosis.

## 2. 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-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.	Owns 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.	Owns 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.

#### 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>	<b>63</b>	<b>63</b>	
including:			
Lectures (LC)	48	48	
Lab work (LW)	3	3	
Seminars (workshops/tutorials) (S)	27	27	
<i>Self-studies</i>	33	33	
<i>Evaluation and assessment (exam/passing/failing grade)</i>			
Course workload	<b>108</b>	<b>108</b>	

	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
<b>Section 1</b> Medical care in antenatal clinic and maternity hospital.	<b>Topic 1.1.</b> Structure, principles of organization of work and tasks of the antenatal clinic and outpatient hospital, the nature of assistance to the female population, the main indicators of the activities of the antenatal clinic, the principles of antenatal care, the timing of registering pregnant women, prenatal and postnatal patronage, the frequency of visits to the antenatal clinic and the methods of examination during pregnancy, terms of granting and duration of maternity leave, the basis of perinatal risk strategy. Levels of antenatal care in Russian federation.	LC, L W, S
<b>Section 2</b>  Reproductive system of women. Normal menstrual cycle and its regulation. Family planning, birth control	<b>Topic 2.1.</b> Clinical and physiological features of the reproductive system of women. The menstrual cycle and its regulation. Cyclic changes in the hypothalamus, pituitary, ovaries, uterus. Anatomical and physiological features of the genital organs of women at different ages. Patterns of formation and extinction of the reproductive function of women. Gonadotropic and ovarian hormones. Morphological changes in the ovaries and endometrium. Ovarian and uterine cycle. Functional diagnostic tests. Periods of a woman's life. <b>Topic 2.2.</b> Family planning in the modern world. Principles of family planning counseling. Modern contraception. Principles of selection of contraceptive methods. Contraception in different age periods of a woman. Features of pregnancy prevention in women under 18 years old, after 35 years, the observance of the optimal intervals between childbirths.	LC, L W, S
<b>Section 3</b>  Birth canal.  Fetus as an object of childbirth.	<b>Topic 3.1.</b> Anatomy of the female genital organs, the muscles and fascia of the pelvic floor, the female pelvis from an obstetric point of view, the structure of the pelvis, its differences from the male, the plane of the pelvis, their boundaries and dimensions, anatomical, wire line(axis) and the inclination angle of the pelvis; normal biocenosis of the genital tract, the mechanisms of its protection, the role of the vaginal microflora. <b>Topic 3.2.</b> Sizes of fetal head. Obstetrical terms	LC, L W, S
<b>Section 4</b> Obstetrical examination (methods	<b>Topic 4.1.</b> Collecting anamnesis in a pregnant woman; conducting a general objective and special obstetric examination, including measuring the abdominal circumference, the height of the uterus, the size of the pelvic planes; determination of the true conjugate (4 ways); measures the Frank size, the dimensions of the lumbosacral	LC, L W, S

of examination of pregnant women). Diagnosis of pregnancy. Determination of gestational age.	rhombus; determination of the presentation, position, and lie of the fetus; examination of the heartbeat of the fetus and its frequency; internal obstetrics examination for determining the degree of maturity of the cervix.	
<b>Section 5</b>  Mechanism of labor in cephalic (vertex) presentations.	<b>Topic 5.1</b> Definition of the mechanism of labor, factors determining the mechanism of labor, occipitoanterior variety of vertex presentation, occipitoposterior variety of vertex presentation.	LC, L W, S
<b>Section 6</b> Clinical features and management of labor in occipital presentation. Physiology of postpartum and early neonatal periods Breech presentation	<b>Topic 6.1.</b> Modern views on the causes of the onset of childbirth, the concept of "ripeness for childbirth", pre-birth signs, the clinical signs and periods of childbirth, their course and management, the rules and procedure for examining the soft tissues of the birth canal in puerperal period, the main moments of the first toilet of the newborn, diagnosing the onset of labor, assessing the nature of contractions (frequency, duration, strength and soreness), the condition of the woman in labor and the puerperal. Interpret the partogram, assess the parameters of the fetal heartbeat, determine the signs of placental separation, examine the placenta. <b>Topic 6.2.</b> Changes in the organs and systems of the puerperal, features of the course and management of the postpartum period, modern perinatal technologies, hygiene measures, the basic principles of breastfeeding. <b>Topic 6.3.</b> Etiology, classification, diagnosis of pelvic presentation of the fetus; to demonstrate on the phantom the mechanism of labor in the pelvic presentation; to determine the location of the presenting part in the birth canal; show Tsovyanov and Bracht maneuvers; demonstrate extraction of the head of the fetus according to the method of Mauriceau–Smellie–Veit; make a diagnosis and determine the management of childbirth (vaginal delivery or cesarean section).	LC, L W, S
<b>Section 7</b> Multiple pregnancy	<b>Topic 7.1.</b> Definition of multiple pregnancy, features of the formation of fetal eggs in the case of multiple pregnancy, the course of pregnancy and the features of the development of the fetus, methods for diagnosing multiple pregnancy, the course of labor and the features of management, possible complications of both mother and fetus, methods of treatment and prevention, management of the II-III stages of labor and the postpartum period.	LC, LW,
<b>Section 8</b> Preeclampsia.	<b>Topic 8.1.</b> Classification of preeclampsia, pathogenesis, clinics, treatment, complications. The main stages of emergency care for eclampsia, as well as the principles of management of labor.	S
<b>Section 9</b> Maternal death		LC, 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)
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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 10-03-207-7474, 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; - set of material carriers of educational information; - set of equipment for connecting to the internet; - set of contraceptives; - set of dummies
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 10-03-207-7474, 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

\* The premises for students' self-studies are subject to **MANDATORY** mention

## 7. RESOURCES RECOMMENDED FOR COURSE STUDY

### *Main readings:*

1. Genecology. 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. Curl M., Lothian J.A. Evidence-Based Maternity Care: Can New Dogs Learn Old Tricks? // The Journal of Perinatal Education. — 2013. — Vol. 22, N 4. —P. 234-240.
2. Dean S.V. et al. Preconception care: nutritional risks and interventions // Reprod Health. — 2014. — Vol. 11, Suppl. 3. — P. 63.
3. Riordan J., Wambach K. Breastfeeding and human lactation. Sudbury. — Mass Jones and Bartlett Publishers, 2010. — 4th ed.
4. Williams Obstetrics — McGraw-Hill Companies / [edited by] F. Gary Cunningham...[et al.]. — 22nd ed. — 2005.
5. Wilson R.D. et al. Prenatal screening, diagnosis, and pregnancy management of fetal neural tube defects // J Obstet Gynaecol Can. — 2014. — Vol. 36, N 10. — P. 927–939.
6. *OTHERS BOOKS/SOURCES OF INFORMATION IN ENGLISH*

*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: <http://esystem.pfur.ru/enrol/index.php?id=10378>
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/>

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

1. The set of lectures on the course "Obstetrics"
2. The laboratory workshop (if any).on the course "Obstetrics"
3. The guidelines for writing a course paper / project (if any) on the course "Obstetrics".
4. ....

\* 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-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:**

**MD, PhD, associate Professor of  
the Department**

position, department



signature

**Konnon R.**

name and surname

**HEAD OF EDUCATIONAL DEPARTMENT:**

**of Obstetrics and Gynecology**

**with the course of perinatology**

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name of department

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signature

**Radzinsky V.E.**

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name and surname

**HEAD**

**OF HIGHER EDUCATION PROGRAMME:**

**Deputy Director of Institute of**

**Medicine**

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position, department

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signature

**Razumova S.N.**

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name and surname