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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**

### **OBSTETRICS AND GYNECOLOGY**

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(name of the discipline/module)

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

31.05.01 General medicine

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(code and name of education/specialty)

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

General medicine

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higher education programme profile/specialisation title

**2023-2024**

## 1. COURSE GOAL(s)

The goal of the course "Obstetrics and Gynecology" is to ensure the education of specialists in the program of general medicine, field – obstetrics and gynecology.

## 2. REQUIREMENTS FOR LEARNING OUTCOMES

Mastering the course (module) "Obstetrics and Gynecology" is aimed at the development of the following competences /competences in part: (GPC)-2, GPC-4; GPC-5; GPC-7; (PC-2); PC-3; PC-5.

*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-2	Capable of monitoring the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population	GPC-2.1. Being able to analyze the awareness of the population of a healthy lifestyle and medical literacy.
		GPC-2.2. Being able to develop a plan of organizational and methodical measures aimed at increasing the awareness of the population of a healthy lifestyle, its literacy concerning disease prevention issues.
		GPC-2.3. Being able to prepare an oral presentation or a printed text which promote a healthy lifestyle and increase the population's literacy concerning disease prevention issues.
GPC-4	Capable of using medical devices provided for by the procedure for medical care, and conduct patient examinations in order to determine a diagnosis	GPC-4.1. Being able to use medical devices in accordance with the current procedures for the provision of medical care, clinical guidelines (treatment protocols) on the provision of medical care, care taking into account the medical care standards.
		GPC-4.2. Being able to assess the effectiveness and safety of medical devices.
		GPC-4.3. Mastering the technique of performing typical medical procedures using medical devices provided for by the procedures for medical care provision.
GPC-5	Capable of assessing morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	GPC-5.1. Mastering the algorithm of clinical, laboratory and functional diagnosis when dealing with professional tasks.
		GPC-5.2. Being able to evaluate the results of clinical, laboratory and functional diagnosis when dealing with professional tasks.
GPC-7	Capable of prescribing treatment and monitor its efficacy and safety	GPC-7.1. Mastering skills in the methods of general clinical examination, interpretation of laboratory results, instrumental diagnostic methods.

Code	Competence	Competence achievement indicators (within this discipline)
		GPC-7.2. Being aware of the algorithm for making a preliminary diagnosis with the subsequent referral of the patient to the relevant medical specialist.
PC-2	Capable of examining the patient in order to establish a diagnosis	<p>PC-2.1. Has the skills to collect complaints, anamnesis of life and illness of the patient, as well as to conduct a complete physical examination of the patient (visual inspection, palpation, percussion, auscultation)</p> <p>PC-2.2. Capable of formulating a presumptive diagnosis and plan laboratory and instrumental investigations of the patient</p> <p>PC-2.3. Capable of referring patients for laboratory investigations in medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on medical care, taking into account the standards of medical care</p> <p>PC-2.4. Capable of referring patients for instrumental investigations in medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on medical care, taking into account the standards of medical care</p> <p>PC-2.5. Capable of referring patients for consultation to the specialists in medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on medical care, taking into account the standards of medical care</p> <p>PC-2.6. Capable of referring patients for specialized medical care in an inpatient or outpatient departments hospital in medical indications in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on medical care, taking into account the standards of medical care</p> <p>PC-2.7. Capable of making differential diagnosis with other diseases/conditions, including emergencies, as well as establishing a diagnosis taking into account the current international statistical classification of diseases and problems, associated with the health</p>
PC-3	Capable of prescribing treatment and monitoring its efficacy and safety	<p>PC-3.1. Capable of developing a treatment plan for a disease or condition, taking into account the diagnosis, age and clinical presentation in accordance with the current procedures for the provision of medical care, clinical recommendations (treatment protocols) on medical care, taking into account the standards of medical care</p> <p>PC-3.6. Capable of organizing personalized treatment of the patient, including pregnant women, elderly and senile patients, evaluate efficacy and safety of treatment</p>

PC-5	Capable of conducting and monitoring the effectiveness of preventive measures and measures of forming healthy lifestyle and sanitary and hygienic education of the population	PC-5.1. Capable of organizing and conducting medical examinations taking into account age, state of health, profession in accordance with applicable regulatory legal acts and other documents
		PC-5.3. Capable of carrying out clinical examination of the adult population in order to early detect chronic non-infectious diseases and the main risk factors for their development in accordance with the current regulatory legal acts and other documents

### 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-2	Capable of monitoring the effectiveness of preventive measures, healthy lifestyle formation and sanitary and hygienic education of the population	Jurisprudence; Anatomy; Biochemistry; General surgery; Medical elementology; Otorhinolaryngology; Urology; Biology; Occupational diseases; Forensic Medicine; Polyclinic therapy; Anesthesiology, resuscitation, intensive care; Hygiene; Medical rehabilitation;	Reproductive health
		Introduction to Nutrition <b>Practice</b> Practice of general medical profile: outpatient physician assistant	

GPC-4	Capable of using medical devices provided for by the procedure for medical care, and conduct patient examinations in order to determine a diagnosis	<p>General surgery;  Radiation diagnostics;  Neurology, medical genetics, neurosurgery;  Facultative Surgery;  Oncology, radiation therapy;  Anesthesiology, resuscitation, intensive care;  Traumatology, orthopedics;  Medical rehabilitation;  Endocrinology;  Physics  <b>Practice</b>  Practice for obtaining primary professional skills and abilities: nursing;  Practice for obtaining primary professional skills and abilities: assistant to junior medical staff;  Practice of diagnostic profile: ward nurse assistant;  Practice in emergency medical procedures;  Practice for obtaining primary professional skills and professional experience: assistant procedural nurse</p>	Reproductive health; Maxillofacial Surgery
GPC-5	Capable of assessing morpho-functional, physiological conditions and pathological processes in the human body to solve professional tasks	<p>Biology;  Normal physiology;  Biochemistry;  Microbiology, virology;  Pathological anatomy, clinical pathological anatomy;  Pathophysiology, clinical pathophysiology;  General surgery;  Dermato-venereology;  Neurology, medical genetics, neurosurgery;  Ophthalmology;  Facultative Surgery;  Occupational diseases;  Therapy;</p>	Maxillofacial Surgery; Reproductive health
		<p>Anesthesiology, resuscitation, intensive care;  Surgery, pediatric surgery;  Oncology, radiation therapy;  Molecular genetics in practical biology and medicine;  Fundamentals of psychophysiology;  Medical Enzymology;  Fundamentals of Integrative Medicine  <b>Practice</b>  Therapeutic physician assistant:  physician assistant therapist</p>	

GPC-7	Capable of prescribing treatment and monitor its efficacy and safety	Physics; General surgery; Dermato-venereology; Neurology, medical genetics, neurosurgery; Otorhinolaryngology; Ophthalmology; Therapy; Surgery; Polyclinic therapy; Pediatric surgery; Fundamentals of Integrative Medicine <b>Practice</b> Practice of general medical profile: assistant doctor of an outpatient clinic	Reproductive health; Maxillofacial Surgery
PC-2	Capable of examining the patient in order to establish a diagnosis	Pathophysiology, clinical pathophysiology; Radiological diagnostics; General surgery; Dermato-venereology; Neurology, medical genetics, neurosurgery; Otorhinolaryngology; Ophthalmology; Faculty Therapy; Surgery; Occupational diseases; Therapy; Anesthesiology, resuscitation, intensive care; Pediatric surgery; Endocrinology; Oncology, radiological therapy; Traumatology, orthopedics; Pediatrics;	Reproductive health; Maxillofacial Surgery
		Polyclinic therapy; Dentistry; Current issues of neonatology; Fundamentals of childhood nutrition <b>Practice</b> Practice in gynecology: assistant to gynecologist; Physician Assistant to therapist; Practice of obstetrics: obstetrician's assistant; General practice: pediatrician's assistant Practice of general medical profile: assistant doctor of an outpatient clinic	

PC-3	Capable of prescribing treatment and monitoring its efficacy and safety	<p>General surgery; Dermato-venereology; Neurology, medical genetics, neurosurgery; Otorhinolaryngology; Facultative Surgery; Occupational diseases; Therapy; Endocrinology; Polyclinic therapy; Surgery, pediatric surgery; Oncology, radiological therapy; Traumatology, orthopedics; Pediatrics; Current issues of neonatology; Current issues of neonatology; Fundamentals of childhood nutrition</p> <p><b>Practice</b> Practice of a surgical profile: assistant surgeon; Practice in gynecology: assistant gynecologist; Therapist assistant; Practice of obstetrics: obstetrician's assistant; Practice of pediatrics: pediatrician's assistant; Practice of general medical profile: assistant doctor of an outpatient clinic</p>	Maxillofacial Surgery; Fundamentals of Integrative Medicine; Ambulatory cardiology
PC-5	Capable of conducting and monitoring the effectiveness of preventive measures and measures of formatting healthy lifestyle and sanitary and hygienic education of the population	<p>Psychology and pedagogy; Propaedeutic of internal diseases; Polyclinic therapy; Surgery, pediatric surgery; Pediatrics; Immunology; Allergology</p> <p><b>Practice</b> Practice of a surgical profile: assistant surgeon; Practice in gynecology: assistant gynecologist; Therapist assistant; Practice of obstetrics: obstetrician's assistant; Practice of pediatrics: pediatrician's assistant; Practice of general medical profile: assistant doctor of an outpatient clinic</p>	Evidence-based medicine; Reproductive health;

\* 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 and Gynecology**" is 14 credits (504 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		Semesters/training modules			
		Semesters		Semesters			
		7	8	9	10	11	
		hour	hour	hour	hour	hour	
<i>Contact academic hours</i>	<b>282</b>	<b>72</b>	<b>60</b>	<b>51</b>	<b>48</b>	<b>51</b>	
<i>Including:</i>							
Lectures (LC)	<b>50</b>	18	15	17			
Lab work (LW)							
Seminars (workshops/tutorials) (S)	<b>232</b>	54	45	34	48	51	
<i>Self-reading (SR), acad hours</i>	<b>168</b>	66	30	15	18	39	
<i>Control (exam/test with marks), acad hours</i>	<b>54</b>	6	18	6	6	18	
<b>Total labor intensity of the discipline</b>	acad hours	<b>504</b>	<b>144</b>	<b>108</b>	<b>72</b>	<b>72</b>	<b>108</b>
	credits	<b>14</b>	<b>4</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>

\* To be filled in according to the competence matrix of the higher education programme.

## 5. COURSE CONTENTS

Table 5.1. Course contents and academic activities types

Name of discipline's section	Content of the section	Type of work
<b>Section 1</b> Methods of investigation and medical records. Scheme of medical (case) history. Organization of outpatient clinic	<b>Topic 1.1.</b> Principles of collecting anamnesis in gynecological patients. Anamnesis. General symptomatology: pain, vaginal discharge, menstrual disorders, infertility. Factors contributing to the occurrence of gynecological diseases. Methods for objective examination of gynecological patients - external, two-handed (vaginal and rectus). Research with vaginal speculum. Colposcopy. Methods for the study of ovarian function. Methods for obtaining a biopsy of the cervix, endometrium. Visualization techniques (hysteroscopy, laparoscopy, MRI, CT). Determination of tubal patency (hysterosalpingography), laparoscopy. Cytological examination of smears and histological examination. Ultrasound examination. Genetic research methods (determination of sex chromatin, karyotype studies). <b>Topic 1.2.</b> The structure of the organization of obstetric and gynecological care. The structure and functions of the women's clinic.	LC, S
<b>Section 2</b> Reproductive system of women. Normal menstrual cycle and its regulation.	<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.	LC, S
<b>Section 3</b> Disorders of the menstrual cycle. Amenorrhea.	<b>Topic 3.1.</b> Classification of menstrual disorders. Etiology and pathogenesis of menstrual disorders. Primary and secondary amenorrhea, normo-, hyper- and hypogonadotropic. Ovarian and uterine forms of amenorrhea. Dysgenesis of the gonads. Testicular feminization. Premature ovarian failure. Central	LC, S



	hypothalamic amenorrhea, pituitary forms of amenorrhea (pituitary insufficiency, hyperprolactinemia). Polycystic ovary syndrome: etiology, pathogenesis, clinic, diagnosis, differential diagnosis, treatment.	
<b>Section 4</b> Disorders of the perimeno-pausal period.	<b>Topic 4.1.</b> Climacteric disorders in women. The concept of menopausal syndrome. Early, intermediate and late climacteric disorders. Postcastration syndrome. Etiology, pathogenesis, clinic, diagnosis and treatment. Principles of hormone replacement therapy in premenopause and postmenopause. Alternative therapy.	LC, S
<b>Section 5</b> Non-specific acute and chronic inflammatory diseases of female genital organs.	<b>Topic 5.1.</b> Nonspecific and specific inflammatory diseases of the female genital organs, their etiology and pathogenesis. Clinical features of inflammatory diseases in different periods of women's life (children, sexually mature, elderly). Clinic diagnostics, treatment, prevention of inflammatory diseases of the genitals of various localization: external (vulvitis, bartholinitis, vestibulitis) and internal genital organs (vaginitis, cervicitis, endometritis, salpingoophoritis, pelviperitonitis and parametritis). Complications of inflammatory diseases of the genitals. Prevention of inflammatory diseases of the female genital organs.	LC, S
<b>Section 6</b> Specific infectious and inflammatory diseases	<b>Topic 6.1.</b> Sexually transmitted infections (gonorrhea, trichomoniasis, chlamydial infection, syphilis). Clinic, diagnosis, treatment, prevention, criteria for cure. The role of sexually transmitted infections in the occurrence of inflammatory diseases of the female genital organs. Candidiasis of the genitals. Tuberculosis of the female genital organs. Pathogenesis, classification, clinic, diagnosis, prevention, therapy. Contagious mollusk. Pharyngitis Individual and population prevention of sexually transmitted infections and urogenital infections. Indications for surgical treatment of inflammatory formations of the uterus.	LC, S
<b>Section 7</b> Ectopic pregnancy.	<b>Topic 7.1.</b> Etiology, classification of ectopic pregnancy. Hematoperitoneum. Principles of emergency medical care. Etiology, pathogenesis, classification of ectopic pregnancy; diagnostic methods, clinic, differential diagnosis, treatment of ectopic pregnancy; stages of operation – tubectomy.	LC, S
<b>Section 8</b> Gestational trophoblastic disease.	<b>Topic 8.1.</b> Classification, clinical features. Diagnostic and treatment methods (chemotherapy, surgery). Organization of the fight against cancer in the Russian Federation.	LC, S
<b>Section 9</b> Anomalies of the development and traumatic injuries of the female reproductive system.	<b>Topic 9.1.</b> Malformations of the genital organs, infantilism, gonadal dysgenesis (clinical manifestations, diagnosis, methods of correction). Disorders of puberty. Clinical and hormonal aspects, diagnosis, treatment. Surgical treatment of malformations of the genitals and urinary system, including laparoscopic salpingo-stomatoplasty, retrograde hysteroresectoscopy, operations by vaginal approach with laparoscopic assistance, including reconstruction of the vagina using synthetic implants. <b>Topic 9.2.</b> Classification, etiology of traumatism of female genital organs, clinical signs, diagnosis, principles of treatment and prevention of traumatism.	LC, S

<p><b>Section 10</b> Anomalies of the position of internal organs. Urinary incontinence.</p>	<p><b>Topic 10.1.</b> Emergency assistance for women with genital trauma. Traumatic injuries of the urinary organs. Preoperative preparation. Technique of surgical intervention on the vaginal part of the cervix, with prolapse of the genitals. Postoperative management of patients.</p> <p>Classification and characterization of anomalies of the position of the female genital organs. Causes of occurrence. Diagnosis and treatment (conservative, operative with laparoscopic assistance). Urinary incontinence: clinical signs, diagnosis and treatment. Urogenital fistula, surgical treatment.</p>	<p>LC, S</p>
<p><b>Section 11</b> Uterine fibroids.</p>	<p><b>Topic 11.1.</b> Modern theories of the pathogenesis of fibroids (leiomyomas) of the uterus. Clinic, diagnosis. Conservative and surgical treatments. Multicomponent treatment of uterine leiomyoma using laparoscopic surgery, uterine artery embolization and ultrasound ablation of uterine fibroids under MRI control. Rehabilitation activities. Uterine sarcoma.</p>	<p>LC, S</p>
<p><b>Section 12</b> Endometriosis</p>	<p><b>Topic 12.1</b> Definition of endometriosis. Theory of endometriosis. Classification. Clinic of genital endometriosis (endometriosis of the uterus and cervix, fallopian tubes, ovaries, retrocervical). Clinic of extragenital endometriosis (endometriosis of the navel, postoperative scar and other organs). Surgical and conservative treatment of endometriosis. Rehabilitation of patients. Surgical treatment of adhesions of stage 4.</p> <p>Preoperative preparation. Postoperative management of patients. Hysterectomy. Laparoscopic operations.</p>	<p>LC, S</p>
<p><b>Section 13</b> Benign diseases of the vulva, vagina and uterine cervix</p>	<p><b>Topic 13.1</b> Kraurosis and leukoplakia of the vulva. Cancer of the vulva and vagina. Diagnosis and treatment. Precancerous diseases of the cervix uteri (pseudo-erosion, ectopia, endocervicosis, polyp, leukoplakia, erythroplakia, papilloma). Colposcopic picture. The management of dysplasia.</p>	<p>LC, S</p>
<p><b>Section 14</b> Cervical cancer.</p>	<p><b>Topic 14.1</b> Classification, clinic, diagnosis and treatment of cervical cancer. The diagnostic value of colposcopy, cytology, histology.</p>	<p>LC, S</p>
<p><b>Section 15</b> Endometrial hyperplastic processes. Uterine Cancer.</p>	<p><b>Topic 15.1</b> Endometrial hyperplastic processes (glandular hyperplasia, polyposis, atypical hyperplasia). Methods of treatment depending on the age of the woman.</p> <p><b>Topic 15.2.</b> Endometrial cancer, classification, clinic, diagnosis, treatment methods.</p>	<p>LC, S</p>
<p><b>Section 16</b> Benign tumors and tumor-like masses of the ovaries.</p>	<p><b>Topic 16.1.</b> Ovarian follicular cysts. Cysts of the corpus luteum of the ovary. Theca-lutein cysts. Cysts of rudimentary organs. Cysts of the fallopian tubes, uterus, vagina, large vestibular glands vestibule of the vagina. Ovarian benign tumors: histological classification, clinic, diagnosis, treatment.</p>	<p>LC, S</p>
<p><b>Section 17</b> Ovarian cancer</p>	<p><b>Topic 17.1.</b> Ovarian cancer (primary, secondary, metastatic), stages, diagnosis, treatment.</p>	<p>LC, S</p>
<p><b>Section 18</b> Abnormal uterine bleeding.</p>	<p><b>Topic 18.1.</b> Abnormal uterine bleeding (AUB), classification PALM-COEIN. Uterine bleeding in puberty. Abnormal uterine bleeding in the reproductive and premenopausal periods.</p>	<p>LC, S</p>

<p><b>Section 19</b> Family planning. Birth control</p>	<p><b>Topic 19.1.</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.</p>	<p>LC, S</p>
<p><b>Section 20</b> Infertility</p>	<p><b>Topic 20.1.</b> Infertility in marriage: etiology, principles of examination of a married couple with infertility. Female infertility: the main causes, diagnosis and treatment methods. Male infertility: the main causes and methods of treatment. Modern methods of infertility treatment – assisted reproductive technologies. Infertility prevention. Organization of care for the couples with infertility.</p>	<p>LC, S</p>
<p><b>Section 21</b> Emergencies in Gynecology</p>	<p><b>Topic 21.1.</b> Gynecological conditions requiring urgent medical care. Indications for surgery. Principles of management.</p>	<p>LC, S</p>
<p><b>Section 22</b> Curation of patients</p>	<p>Curation of patients for writing patient history case. Establishing diagnosis and plan management.</p>	<p>LC, S</p>
<p><b>Section 1</b> Organization of the work of the maternity hospital. Dispensary observation of pregnant women. The structure and organization of the maternity hospital. Sanitary anti-epidemic regime in the obstetric hospital.</p>	<p><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. <b>Topic 1.2.</b> Organization of anti-epidemic regime</p>	<p>LC, S</p>
<p><b>Section 2</b> Clinical anatomy, physiology and biocenosis of the female genital organs. Fetus as an object of childbirth. Obstetrical terminology.</p>	<p><b>Topic 2.1.</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 2.2.</b> Sizes of fetal head. Obstetrical terms</p>	<p>LC, S</p>
<p><b>Section 3</b> Obstetrical examination (methods of examination of pregnant women). Diagnosis of pregnancy. Determination of gestational age.</p>	<p><b>Topic 3.1.</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 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.</p>	<p>LC, S</p>
<p><b>Section 4</b> Mechanism of labor in cephalic (vertex) presentations.</p>	<p><b>Topic 4.1</b> Definition of the mechanism of labor, factors determining the mechanism of labor, occipitoanterior variety of vertex presentation, occipitoposterior variety of vertex presentation.</p>	<p>LC, S</p>

<p><b>Section 5</b> Clinical features and management of labor in occipital presentation.</p>	<p><b>Topic 5.1.</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.</p>	<p>LC, S</p>
<p><b>Section 6</b> Physiology of postpartum and early neonatal periods.</p>	<p><b>Topic 6.1.</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.</p>	<p>LC, S</p>
<p><b>Section 7</b> Abnormal labor.</p>	<p><b>Topic 7.1.</b> Pertinence, epidemiology, etiology, pathogenesis, classification, uterine inertia, excessive uterine activity, uncoordinated uterine activity (hypertonic dysfunction).</p>	<p>LC, S</p>
<p><b>Section 8</b> Breech presentation</p>	<p><b>Topic 8.1.</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).</p>	<p>LC, S</p>
<p><b>Section 9</b> Early toxicosis and preeclampsia.</p>	<p><b>Topic 9.1.</b> Classification of early toxicosis, pathogenesis, clinics, treatment, complications. The principles of management. Indications for pregnancy termination <b>Topic 9.2.</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.</p>	<p>LC, S</p>
<p><b>Section 10</b> Contracted pelvis.</p>	<p><b>Topic 10.1.</b> Classification, causes of development, methods of diagnosis and delivery, principles of spontaneous labor and complications.</p>	<p>LC, S</p>
<p><b>Section 11</b> Post-term pregnancy.</p>	<p><b>Topic 11.1.</b> Etiology of post-term pregnancy, its diagnosis; tactics of pregnancy and its complications, complications and characteristics of childbirth, signs of postmaturity of the newborn. Indications, contraindications and methods of conducting programmed childbirth.</p>	<p>LC, S</p>
<p><b>Section 12</b> Premature (preterm) birth.</p>	<p><b>Topic 12.1.</b> Causes, diagnosis, treatment of preterm labor; features of the course of labor, pregnancy management tactics and its complications in case of premature rupture of the membranes.</p>	<p>LC, S</p>
<p><b>Section 13</b> Placenta previa. Placental abruption.</p>	<p><b>Topic 13.1.</b> Etiology and pathogenesis of various anomalies of the location of the placenta, diagnosis of anomalies of the location of the placenta, rational treatment, an algorithm for stopping the bleeding, methods of delivery and prevention. <b>Topic 13.2.</b> Etiology and pathogenesis of placental abruption. Diagnosis and treatment, an algorithm for stopping the bleeding, methods of delivery and prevention.</p>	<p>LC, S</p>
<p><b>Section 14</b> Hemorrhage in III stage of labor. Postpartum hemorrhage.</p>	<p><b>Topic 14.1.</b> Definition of “bleeding in III stage of labor”, “postpartum hemorrhage”; etiology and pathogenesis; clinical presentation; diagnosis and methods for hemostasis. Algorithm of blood loss restoration. Prevention.</p>	<p>LC, S</p>

<p><b>Section 15</b> Hemolytic disease of fetus and newborn.</p>	<p><b>Topic 15.1.</b> Epidemiology, etiopathogenesis of isoimmunization, antenatal and postnatal diagnostics, various methods of treating the fetus and newborn, indications for antenatal and postnatal prophylaxis.</p>	<p>LC, S</p>
<p><b>Section 16</b> Septic disorders in postpartum period.</p>	<p><b>Topic 16.1.</b> Classification of postpartum infectious diseases, factors contributing to the development of postpartum infectious diseases during pregnancy, childbirth and the postpartum period, clinical features; diagnostic methods, principles of treatment of postpartum inflammatory diseases and prevention.</p>	<p>LC, S</p>
<p><b>Section 17</b> Generalized forms of postpartum inflammatory diseases. Lactational mastitis.</p>	<p><b>Topic 17.1.</b> Diagnostics of postpartum pelvioperitonitis. Basic principles of treatment of postpartum infectious diseases. Basic principles of treatment of peritonitis. Septic shock (etiology, pathogenesis, clinic, classification, diagnosis, treatment). Postpartum mastitis (etiology, pathogenesis, clinic, classification, diagnosis, treatment).</p>	<p>LC, S</p>
<p><b>Section 18</b> Abnormal fetal lies and presentations.</p>	<p><b>Topic 18.1.</b> Clinics of childbirth. In which types of extensor presentations, childbirth through the birth canal is impossible, peculiarities of labor management by stages. Complications during pregnancy, childbirth and in the postpartum period. Anterior and posterior asynclitism. The reasons for the formation of an asynclitic insertion: a relaxed abdominal wall and lower segment of the uterus. State of the pelvis of the woman in labor, its contraction and especially its flattening, as well as the degree of inclination, the possibility of childbirth through the natural birth canal. Incorrect standing of the fetal head (high sagittal and low transverse standing of the sagittal suture): etiology, diagnosis and management of labor, methods of delivery, complications.</p>	<p>LC, S</p>
<p><b>Section 19</b> Maternal obstetric trauma</p>	<p><b>Topic 19.1.</b> Causes, clinic, diagnosis, medical tactics for all types of maternal trauma.</p>	<p>LC, S</p>
<p><b>Section 20</b> Cesarean section.</p>	<p><b>Topic 20.1.</b> Absolute and relative indications, contraindications for emergency and elective caesarean section; methods of operation; advantages and disadvantages of various methods (incision in the uterus, stitching of wounds, types of sutures, features of anesthesia); preoperative preparation and tactics of the postoperative period; complications.</p>	<p>LC, S</p>
<p><b>Section 21</b> Obstetric forceps and vacuum extraction of the fetus.</p>	<p><b>Topic 21.1.</b> Applying obstetric forceps and vacuum fetal extraction: indications, contraindications and conditions for the manipulations</p>	<p>LC, S</p>
<p><b>Section 22</b> Minor obstetric operations (manipulations).</p>	<p><b>Topic 22.1.</b> Definitions of the minor obstetric operations; the significance of these operations in modern obstetrics; indications and contraindications for operations; conditions for their implementation; methods and techniques of operations; preoperative preparation; possible complications.</p>	<p>LC, S</p>
<p><b>Section 23</b> Multiple pregnancy.</p>	<p><b>Topic 23.1.</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.</p>	<p>LC, S</p>

<b>Section 24</b> Miscarriage. Missed miscarriage. Methods of uterine cavity contents evacuation	<b>Topic 24.1.</b> Epidemiology, etiology and pathogenesis of miscarriage. Types of miscarriage, their clinical manifestations, diagnosis and management of patients. Rehabilitation of patients and prevention.	LC, S
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\* - 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*

<b>Type of auditorium</b>	<b>Auditorium equipment</b>	<b>Specialized educational / laboratory equipment, software and materials for mastering the discipline (if necessary)</b>
For lectures	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 цо-03-207-7474, September 2013. Federal agency for ecologic, technological and atomic surveillance
Seminar classes	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.	<ul style="list-style-type: none"> <li>- video projector;</li> <li>- wall screen, pointer;</li> <li>- auditorium tables;</li> <li>- auditorium chairs;</li> <li>- computers;</li> <li>- multimedia projector;</li> <li>- overhead, a set of films for overhead;</li> <li>- television;</li> <li>- video recorder;</li> <li>- visual aids;</li> <li>- charts;</li> <li>- endoscopic mannequin (3BScientific 1005723);</li> <li>- mannequin for breasts palpation (3 different breasts, 3B Scientific1000344).</li> <li>- set of material carriers of educational information;</li> <li>- set of equipment for connecting to the internet;</li> <li>- obstetric forceps;</li> <li>- set of tools for training the performance of obstetric and gynecological operations;</li> <li>- set of contraceptives;</li> <li>- set of dummies;</li> <li>- set of histological preparations</li> </ul>

For sealf-reading (lectures hall).	An auditorium for independent work of students (sealf-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 цо-03-207-7474, September 2013. Federal agency for ecologic, technological and atomic surveillance
Computer class	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 sealf-reading is **MANDATORY** mentioned!

## 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. Obsterics / ed. By V.E. Radzinskiy, A.M. Fuks. Ch. G. Gagaev - M.: GEOTAR-Media, 2019. — 880 pp.

### *Additional readings:*

1. Benirschke K. The Umbilical Cord. — 2004. — P. 10.
2. Budin W.C. et al. Knowledge and skills of the Lamaze certified childbirth educator: results of a job task analysis // The Journal of Perinatal Education. —2014. — Vol. 23, N 2. — P. 65–78.
3. Cordero Y. et al. Exercise is Associated with a Reduction in Gestational Diabetes Mellitus // Med Sci Sports Exerc. — 2014
4. Cunningham F.G., MdLeveno S.L., Bloom C.Y., Spong J.S., Dashe B.L., Hoffman B.M., Casey J.S. Sheffield Williams Obstetrics. — 24st edition, 2014.
5. 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.
6. Dean S.V. et al. Preconception care: nutritional risks and interventions // Reprod Health. — 2014. — Vol. 11, Suppl. 3. — P. 63.
7. Delotte J. et al. Pregnant woman and road safety: a numerical approach. Application to a restrained third trimester pregnant woman in frontal impact // J. Gynecol Obstet Biol Reprod. — Paris, 2007. — Vol. 36. — №6. — P. 577-581.
8. Essentials of anatomy and physiology / Valerie C. Scanlon, Tina Sanders. — 5th ed. Copyright © 2007 by F. A. Davis Company. — P. 604.
9. Faye-Petersen O.M., Heller D.S., Joshi V.V. Handbook of Placental Pathology. —2nd ed. (2006). — Taylor & Francis.
10. Gabbe S.G. Obstetrics normal and problem pregnancies. — Philadelphia: Elsevier / Saunders,

2012.

11. George A. et al. Periodontal treatment during pregnancy and birth outcomes: a meta-analysis of randomized trials: // International Journal of Evidence-Based Healthcare. — 2011. — Vol. 9, N 2. — P. 122–147.
12. Hodgetts V. et al. Effectiveness of folic acid supplementation in pregnancy on reducing the risk of small-for-gestational age neonates: a population study, systematic review and meta-analysis // BJOG. — 2014.
13. Kaplan C.G. Color Atlas of Gross Placental Pathology. — 2nd ed. — Springer Science+Business Media. — 2007.
14. Nakajima Y., Yamaji K., Ohashi K. Fetal heart rate and uterine contraction during automobile driving // J. Obstet. Gynaecol. Res. — 2004. — Vol. 30, N 1. — P. 15–19.
15. National Collaborating Centre for Women's and Children's Health (Great Britain), National Institute for Health and Clinical Excellence (Great Britain). Antenatal care: routine care for the healthy pregnant woman. — London: RCOG Press, 2008.
16. Obstetric Evidence Based Guidelines Ed by Vincenzo Berghella 2007 Informa Healthcare. — P. 235.
17. Obstetrics illustrated / Kevin P. Hanretty, Churchill Livingstone, Elsevier Inc., 6th. — 2003. — P. 437.
18. Obstetrics: normal and problem pregnancies / [edited by] S.G. Gabbe, J.R. Niebyl, J.L. Simpson; associate editors, Henry Galan... [et al.]. — 5th ed. (2007), Churchill Livingstone, Elsevier Inc. — P. 1299.
19. O'Grady J.P., Gimovsky M.L. Operative Obstetrics / edited by L.A. Bayer Zwirello, K. Giordano. — 2nd ed. — Cambridge University Press, 2008.
20. Pregnancy, childbirth, postpartum and newborn care: a guide for essential practice // World Health Organization. — 2003. — P. 180.
21. Protocols for high-risk pregnancies / [edited by] J.T. Queenan, J.C. Hobbins, C.Y.
22. Riordan J., Wambach K. Breastfeeding and human lactation. Sudbury. — Mass Jones and Bartlett Publishers, 2010. — 4th ed.
23. Williams Obstetrics — McGraw-Hill Companies / [edited by] F. Gary Cunningham...[et al.]. — 22nd ed. — 2005.
24. 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.
25. *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.entd.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 and Gynecology**".
2. The laboratory workshop (if any).on the course "**Obstetrics and Gynecology**".
3. The guidelines for writing a course paper / project (if any) on the course "**Obstetrics and Gynecology**".

\* 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-2, GPC-4; GPC-5; GPC-7; (PC-2); PC-3; PC-5) upon the course study completion are specified in the Appendix to the course syllabus.

**DEVELOPERS:**

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



**Konnon R.**

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Post

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Signature

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Name

**HEAD OF THE EDUCATIONAL DEPARTMENT:**

**Department of Obstetrics and  
Gynecology with the course of  
perinatology**

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position, department

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signature

**Radzinsky V.E.**

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name and surname

**HEAD  
OF THE HIGHER EDUCATION PROGRAMME:**

**Deputy Director of Institute of  
Medicine**

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position, department

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signature

**Gushchina Yu.Sh.**

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name and surname