

1.	Subject	OBSTETRICAL CARE 3			
2.	Code	DA – 311			
3.	Study program:	Three-year professional studies for graduate obstetricians			
4.	Conducted by	UKIM – Medical faculty Department of gynecology and obstetrics			
5.	Degree of education (first or second cycle)	First cycle			
6.	Academic year/semester	Second/V and VI	7.	Credits	11 – III semester 10 – IV semester
8.	Professor	Department Chair: Prof. Goran Dimitrov *all the professors from the Department of gynecology and obstetrics			
9.	Prerequisite	Passed exam Obstetrical care 2 and Obstetrics Pass all the exams in First year			
10.	Goals	<p>The students:</p> <ul style="list-style-type: none"> - Enrich and gain new knowledge about the physiological changes in the organism of a pregnant woman, a woman delivering a baby and in the postnatal period - Gain knowledge about the pathological conditions in pregnancy, diseases that pregnancy can cause, chronic diseases and urgent conditions in obstetrics - Gain knowledge about conducting a normal delivery - Learn the pathological conditions in the puerperium - Learn the diagnostic and therapeutic program in pregnancy, in delivery (preparing for examination, examination, therapy, surgical procedures) <p>Examinations during pregnancy for determining the condition of the fetus (cytogenetics, ultrasound, CTG); screening tests Learn the physiology and pathology of birth, physiology and pathology of puerperium Gain knowledge about conducting a home birth Gain knowledge about procedures in case of abnormal presentation of the fetus, placenta disorders, umbilical cord and amniotic fluid, pre-term and post-term Gain knowledge about the basic obstetrical surgeries and interventions Gain basic knowledge about anesthesia during childbirth, analgesia Learn to take care of a healthy newborn and a newborn with the need for resuscitation after birth Gain knowledge about an urgent delivery</p> <ul style="list-style-type: none"> - Expand and enrich their knowledge about the anatomy of female reproductive organs and pelvis - Expand and enrich their knowledge about the physiology of a female organism and the reproductive system - Enrich their knowledge about pathophysiology, clinical picture, possible complications, diagnostic and therapy of gynecological problems - Gain knowledge about the care of patients and their reproductive and gynecological health through: - Advising the patient about obstetrical care, protecting the reproductive health: before conception, before delivery, during delivery, after delivery and during menopause. Care for newborns, young babies that 			

		<p>are breastfed and preschoolers.</p> <ul style="list-style-type: none"> - Obstetrical care during heavy menstrual bleeding, development problems of the reproductive organs, illness of the pregnant woman, sterilization, incontinence, sexually transmitted diseases, breast disorders, after birth surgeries and hysterectomy. - Obstetrical care of an infertile couple (infertility of the couple)
11.	<p>Content summary: 30+50 classes</p> <p>Theoretical lessons:</p> <p>Care of the sexual and reproductive health – 1 class</p> <p>Sexual education – benefits and age categorization – 1 class</p> <p>Development of female and male reproductive organs – 1 class</p> <p>Menstrual cycle and menstrual disorders – 1 class</p> <p>Polycystic ovary syndrome – 1 class</p> <p>Endocrinology disorders which influence infertility – 2 classes</p> <p>Abnormalities in the development of the genital organs – 1 class</p> <p>Sexually transmitted diseases – diagnosis and treatment – 1 class</p> <p>Screening of breast tumors – 1 class</p> <p>Urinary and anal incontinence – medical history, diagnosis and treatment – 1 class</p> <p>Infertility – reasons – 1 class</p> <p>Methods of assisted reproduction - 1 class</p> <p>The role of the obstetrician in the infertility treatment team – 1 class</p> <p>Communication skills with pregnant patients – 1 class</p> <p>Communication skills with patient who undergo an infertility treatment -1 class</p> <p>Primary ovarian insufficiency – 1 class</p> <p>Sterilization – male and female – 1 class</p> <p>Obstetrical law regulation in The Republic of North Macedonia – 1 class</p> <p>Obstetrical education in The Republic of North Macedonia – 1 class</p> <p>Traditional and contemporary obstetrical methods – 2 classes</p> <p>Specific role of the obstetrician in the antenatal period – 2 classes</p> <p>Symptoms, signs and medical history of possible pregnancy – 1 class</p> <p>Antenatal detection of risk factors – 1 class</p> <p>Consultations of a pregnant woman – 1 class</p> <p>Nutrition of a pregnant woman – 1 class</p> <p>Physiotherapy exercises for pregnant women – 2 classes</p> <p>Infectious diseases in pregnancy – 1 class</p> <p>Comorbidities and their influence on pregnancy -1 class</p> <p>Early pregnancy with unknown location – 1 class</p> <p>Genetic counseling and analysis in pregnancy – 1 class</p> <p>Recurrent pregnancy loss – psychosocial and medical approach – 1 class</p> <p>Abnormalities in the placenta development – 1 class</p> <p>Complications related to the placenta -1 class</p> <p>Disorders with the amniotic fluid and amniotic membranes – 1 class</p> <p>Umbilical cord prolapse and descent – 1 class</p> <p>Risk in multiple pregnancy – 1 class</p> <p>Managing pregnancy in case of intrauterine fetal growth restriction – 1 class</p> <p>Managing pregnancies with premature rupture of membranes – 1 class</p> <p>Managing pregnancies with hypertensive disorders – 1 class</p> <p>Fetal lung development and neuro-protection - 1 class</p> <p>Rational drug use in pregnancy - 1 class</p> <p>Invasive diagnostic and treatment of the fetus - 1 class</p> <p>Management of diabetic pregnant women - 1 class</p>	

	<p>Psychosocial and medical treatment of patient with neuro-psychiatric disorders - 1 class</p> <p>Managing patients with internal diseases - 1 class</p> <p>Managing patient with previous surgical interventions and diseases - 1 class</p> <p>Admitting and treatment of patients in the periparturient intensive care – 2 classes</p> <p>Invasive and non-invasive examinations in high-risk pregnancies - 1 class</p> <p>Prolonged pregnancy – monitoring and treatment - 1 class</p> <p>Admitting and preparing the patient in the birth room - 1 class</p> <p>Procedures with a patient during the I birth time - 1 class</p> <p>Cardiotocograph results and their interpretation - 1 class</p> <p>Partogram – proper monitoring and benefits - 1 class</p> <p>Observation and active participation in delivery in I birth time - 1 class</p> <p>Management of preterm delivery - 1 class</p> <p>Managing a delivery of patient with disabilities - 1 class</p> <p>Normal and prolonged II birth time - 1 class</p> <p>Delivering a patient with an infectious disease (hepatitis, HIV) - 1 class</p> <p>Internal and external rotation of the fetus - 1 class</p> <p>Active participation in III birth time - 1 class</p> <p>Uterine inversion and rupture - 1 class</p> <p>Diagnosis and treatment of primary postpartum hemorrhage - 1 class</p> <p>Uterine tamponade and postpartum hysterectomy - 1 class</p> <p>Absolute and relative indications and contraindications of a surgical delivery - 1 class</p> <p>Absolute and relative indications of ending the delivery with a c-section – 1 class</p> <p>Urgent interventions during delivery - 1 class</p> <p>Intensive care of a patient with high-risk pregnancy after delivery - 1 class</p> <p>Intensive care of a fetus in distress - 1 class</p> <p>Dealing with complications caused by obstetrical anesthesia and analgesia - 1 class</p> <p>Noticing and treating complications in puerperium - 1 class</p> <p>Delivering news about negative perinatal results - 1 class</p> <p>Psychosocial and legal support of the obstetrician and other health professionals - 1 class</p> <p>Care of patients and their reproductive and gynecological health</p> <ul style="list-style-type: none"> - Advising the patient about obstetrical care, protecting the reproductive health: before conception, before delivery, during delivery, after delivery and during menopause. Care for newborns, young babies that are breastfed and preschoolers. - Obstetrical care during heavy menstrual bleeding, development problems of the reproductive organs, illness of the pregnant woman, sterilization, incontinence, sexually transmitted diseases, breast disorders, after birth surgeries and hysterectomy. - Obstetrical care of an infertile couple (infertility of the couple) - Analysis in pregnancy for evaluating the condition of the fetus (ultrasound, CTG); screening tests - Pre-term and post-term - Birth surgeries - Obstetrical anesthesia, analgesia - Care of the newborn during delivery - Urgent delivery
	<p>Practical lessons:</p> <ul style="list-style-type: none"> -Advising pregnant women with 50 prenatal examinations -Obstetrical care and attending 25 normal spontaneous deliveries -The student must perform 25 deliveries and to actively participate and assist in at least 20 deliveries -Active participation – assisting during breech delivery, practice on a doll model -Performing episiotomy and suture of the wound and in small vaginal laceration, may be on a doll

	<p>model</p> <ul style="list-style-type: none"> -Obstetrical care of 25 high-risk pregnancies or taking care of a healthy woman during delivery or taking care of the newborn -Obstetrical care of patients with pathological conditions in gynecology and obstetrics -Elementary knowledge of medicine and surgery which includes theory and practice -Preparing standards of obstetrical/health care <p>Specialized obstetrical/health care: check-in, transfer, patient discharge, psycho-physical problems due to the hospitalization, hospital environment, preoperative preparation of the patient and helping the vitally endangered patients</p> <p>Participation of the obstetrician in the diagnostic and therapeutic program</p> <p>Specialized preparation of the obstetrician for dealing with patients with infectious diseases, internal diseases, psychological conditions</p> <p>In the practical lessons, the student learns under a teacher, medical associate or a mentor, who helps the student, firstly with assistance and then independently to evaluate and indentify the problems and then to solve them. The students should check their work in groups and change experiences.</p>			
12.	Teaching methods: Interactive classes, practical lessons, seminars Projects and other forms according to the ECTS criteria			
13.	Total classes:	440		
14.	Organization			
15.	Types of teaching activities	15.1	Lessons: theoretical classes	40 lessons – V semester 40 lessons – VI semester
		15.2	Practical lessons	Practical lessons: / Seminars: 30
		15.3	Training	190 – V semester 200 – VI semester
16.	Other types of activities	16.1	Projects	
		16.2	Self-supporting practice	
		16.3	Learning at home	
17.	Knowledge assessment		Points	
	17.1	Tests	Regular checks of the knowledge points 18-30 Regular checks of knowledge mid-term exams: 4 written 1 and 2 – gynecology questions, 3 and 4 – obstetrics questions	
		Final exam	Oral exam:	min. – max.
			Oral part points	27 - 45
		Practical part points	13 - 22	
	17.2	Seminars	Preparation of the seminar materials with interactive participation	
	17.3	Active participation	<p style="text-align: right;">Min. – Max. Points</p> Theoretical lessons 1 - 3 51%-60% 1 point 61%-85% 2 points 86%-100% 3 points Practical lessons 11 - 14 Seminars:	
18.	Grading	Up to 59 points	5 (five) F	

	criterion (points/grades)	From 60 to 68 points	6 (six) E
		From 69 to 76 points	7 (seven) D
		From 77 to 84 points	8 (eight) C
		From 85 to 92 points	9 (nine) B
		From 93 to 100 points	10 (ten) A
19.	Requirements for obtaining a signature and attending the final examination	To obtain a signature, the student must gain minimum points from visiting the theoretical and practical lessons. To attend the final exam, the student must pass the mid-term exams. In the exam session, the student must pass the midterm exams first, and then the final exam. The final grade for the subject is formed according to the table for grading, and is based on the sum of the points from all the activities, mid-term exams and final exam.	
20.	Language	Macedonian	
21.	Method of evaluating the quality of the lessons	Anonymous student evaluation of the subject, the professors and the collaborators who hold the lessons.	
22.	Literature		
	22.1	Mandatory literature	
		1.	Mladenovikj D. And col., Gynaecology and Obstetrics, Zavod za ucebnjike i nastavna sredstva, Belgrad, 2008
		2.	Joachim W. Dudenhausen, Practical Obstetrics, De Gruyter, 2014
		3.	Fraser Cooper Myles, Myles Textbook for Midwives 16th edition, Churchill Livingstone, 2014
	22.2	Additional literature	
		1.	Edited by Janet Medforth et al., Oxford Handbook of Midwifery, Oxford University Press – 3rd edition, 2017
	2.	Shirimbel, Practical Obstetrics, Medicinska Knjiga, Belgrad-Zagreb, 1985	
	3.	Ristikj, Practical obstetrics, Freemental, Belgrad, 2001	