1.	Subject	NEWBORN CARE		
2.	Code	DA – 213		
3.	Study program:	Three-year professional studies for graduate obstetricians		
4.	Conducted by	UKIM – Medical faculty		
		Department of Pediatrics		
5.	Degree of education (first or	Integrated cycle		
	second cycle)			
6.	Academic	II/III 7. Credits 6 credits – III semester		
	year/semester	and 7 credits – IV semester		
8.	Professor	Responsible professor: Prof. dr. Aspazija Sofijanova		
		Department's Chair: Prof. d-r. Kata Martinova		
		*the lessons are held by all the members of the Department of Pediatrics		
9.	Prerequisite	Passed exam in Neonatology		
10.	Goals			
		Declaration of the newborn's rights and Convention on the rights of the child Recognize pathological conditions and newborn's symptoms of a		
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certain illness

- Recognize birth asphyxia
- Participate in resuscitation, preparing the equipment and medicine
- Differentiate between birth traumas and the consequences
- Recognize breathing problems, explain apnea, respiratory distress syndrome, meconium aspiration syndrome, connatal pneumonia, transient tachypnea, pulmonary hemorrhage
- Recognize chromosomepathy and malformation
- Know the characteristics of premature and high-risk newborns
- Know the feeding characteristics of premature and high-risk newborns
- Provide enteral and parenteral feeding, place nasogastric tube
- Place a newborn in an incubator
- Provide oxygen therapy and artificial respiration, assist in endotracheal intubation
- Keep normal flow of oxygen through the airways in a newborn placed on respiration
- Perform veinpunction and take blood and urine sample for laboratory analysis
- Provide parenteral medication use, place venous catheter and IV infusion
- Take peripheral blood sample
- Prepare a newborn for examination and diagnostic procedures
- Provide care for a deceased newborn or premature baby
- Predict the psychological condition of the mother and the family and provide psychological help
- Keep obstetrical records

11. Content summary:

Theoretical lessons: 20 lessons in the III semester and 30 in the IV semester

Practical lessons: 140 lessons in the III semester and 160 lessons in the IV semester

During the practical lessons, there is monitoring of newborns that require special care, including pre-term and post-term babies, babies with low birth-weight or sick newborns.

The students get acquainted with the work and particular obstetrical interventions.

Theoretical lessons: 20 lessons in the III semester

Obstetrical care of a healthy newborn:

- 1. Keeping obstetrical records
- 2. Characteristics of a healthy baby
- 3. Primary care of newborns
- 4. Assessing vitality
- 5. Admitting the baby in the nursery rooming in, neonatal prophylaxis
- 6. Monitoring the newborn in the early postnatal period
- 7. Adapting the newborn to the extrauterine life
- 8. Physiological characteristics of a healthy newborn
- 9. Changing and bathing a newborn, skin hygiene and proper care of the cord stump
- 10. Physiological jaundice
- 11. Behavior and newborn's reflexes
- 12. Neonatal screening
- 13. Vaccination in the neonatal period

- 14. Breastfeeding and nutrition, advantages of breastfeeding
- 15. Breastfeeding techniques
- 16. Improper breastfeeding, help and education of the mother
- 17. Veinpunction, taking blood sample for laboratory analysis
- 18. Taking peripheral blood sample
- 19. Taking urine sample and other bodily secretions
- 20. Parenteral use of medication, placing venous catheter

Theoretical lessons: 30 lessons in IV semester

Obstetrical care of high-risk and pre-term newborns

- 1. Admitting the newborn into the intensive care unit and therapy
- 2. Characteristics of a high-risk and pre-mature newborn
- 3. Placing the newborn in an incubator, use of oxygen
- 4. Adapting the high-risk and pre-term baby to extrauterine life
- 5. Behavior and reflexes
- 6. Preparing the newborn for an examination
- 7. Feeding the newborn with collected mother's milk, infant formulas
- 8. Feeding the newborn with a bottle
- 9. Placing a gastrostomy tube
- 10. Parenteral feeding
- 11. Breastfeeding, help and advice for the mother who breastfeeds
- 12. Changing and bathing the newborn, skin hygiene and proper care of the cord stump
- 13. Weighing
- 14. Monitoring the newborn and discovering problems with color, breathing
- 15. Monitoring the vital functions
- 16. Bower movement and urination monitoring
- 17. First aid in case of asphyxia of a newborn or pre-term baby, assessing vitality
- 18. Aspiration
- 19. Cutting the umbilical cord, cord blood testing
- 20. Veinpunction, taking blood sample for laboratory analysis
- 21. Taking peripheral blood sample
- 22. Taking urine sample and other bodily secretions for laboratory analysis
- 23. Placing a venous catheter, parenteral use of medication and placing an IV infusion
- 24. Neonatal screening
- 25. Transfusion of blood and blood products
- 26. Vaccination in the neonatal period
- 27. Assisting in exchange transfusion
- 28. Using phototherapy in newborns
- 29. Educating the mother during the discharge from the hospital
- 30. Keeping obstetrical records

	The Committee of the co				
12.	Teaching methods: Interactive practical lessons and training				
13.	Total classes:	390			
14.	Organization		Theoretical lessons: 20 lesson in the third semester and 30 lessons in the fourth semester Training: 140 lessons in the third semester and 160 lessons in the fourth semester Learning at home: 40 lessons		
15.	Types of teaching activities	15.1	Lessons:	20 lessons in the third semester and 30 lessons in	

					the fourth semester		
			15.2	Practical lessons			
16.	Other types of activities		16.1	Training	140 lessons in the third		
					semester and 160 lessons in		
				~	the fourth semester		
			16.2	Self-supporting			
			16.2	practice	40		
17	Vasculadas assa	77 1 1		16.3 Learning at home 40			
17.	Knowledge assessment 17.1 Tests		Points Min. – Max.				
	1 / . 1	Tests	Min. – Max. Mid-term exams* 2: 15 - 25				
			Final exam: 20 - 35				
			Mid-term exams: 2 written multiple-choice tests				
			Covers all the areas of Neonatology care:				
					newborn: 15-25 points		
			Mid-term exam 2: High-risk and pre-term newborn: 15-				
				25 points			
	17.2	Paper/project					
		(oral/written					
		presentation)					
	17.3	Active participation					
18.	Grading	Theoretical lessons	10-20				
10.	criterion	Practical lessons	20-30				
	(points/grades)	Mid-term exam 1	15-25				
	(points/grades)	Mid-term exam 2	15-25				
		Oral exam	13 23				
		Total	60-100				
19.				m points from visiting the			
for obtaining a lessons and the training.							
	signature and						
	attending the				o the table for grading, and is		
	final	based on the sum of the points from all the activities and mid-term exams.			and mid-term exams.		
	examination						
20.	Language	Macedonian					
21.	Method of	Students' attendance and interactive participation in the practical lessons and					
	evaluating the	training					
	quality of the lessons						
22.	Literature						
22.	22.1	Mandatory literature					
		1.	Marv R	Rudolph, Tim Li Mal	colm Leven, Pediatrics and		
				en's Health, Ars Lam			
		2.			cLur, Carlo L Acerin,		
			Pediatr	ics Handbook, Ars L	amina 2014		
		3.	Mardes	shikj D et all., Pediati	rics, Skolska Kniga, Zagreb,		
			2000				
		4.		2.	th care in pediatrics, Beograd,		
			Primal,	2007			

	5.	Authorized lectures by the Department
	6.	Kuzmanovska D., Grujovska S., Physical diagnosis in
		Pediatrics, UKIM Medical Faculty, 2011
22.2	Additional literature	
	1.	Elizabeta Zisovska, Pediatrics and care – Textbook for medical nurses and technicians, University Goce Delcev, Shtip, 2019
	2.	Sunil Sinha, Lawrence Miall, Luke Jardune, 5 th edition essential neonatal medicine, Wiley-Blackwell Publishing, 2013
	3.	Kenner Carole, Altimier Leslie, Comprehensive Neonatal Nursing Care 6 th edition, Springer Publishing, 2019