1.	Subject	NEONATOLOGY			
2.	Code	DA - 113			
3.	Study program:	Three-year professional studies for graduate obstetricians			
4.	Conducted by	UKIM – Medical faculty			
-	D C	Department of Pediatrics			
5.	Degree of education (first or second cycle)	Integrated cycle			
6.	Academic year/semester	First/I 7. Credits 1.5			
8.	Professor	Responsible professor: Prof. d-r Aspazija Sofijanova Head of the Department: Prof. d-r Kata Martinova *the lessons are held by all the members of the Department of Pediatrics			
9.	Prerequisite				
10.	Goals	<ul> <li>*the lessons are held by all the members of the Department of Pediatrics</li> <li>The students get acquainted with the field where they will be working, interventions in obstetrical care related to care and nutrition of a healthy newborn especially in encouraging breastfeeding and its benefits for the newborn. Special attention is paid to making the students able to (gain knowledge and skills) assess the vitality of the infant after birth, monitor the condition of the newborn during the adaptation to extrauterine life and recognizing the irregularities. The students will also get acquainted with the obstetrical interventions on a vitally endangered and pre-term baby, assessing the dangers and performing intervention in case of different infant conditions and diseases.</li> <li>After passing the exam the student will be able to:</li> <li>Assess the condition and vitality of an infant after birth</li> <li>Accept and give primary care to the infant</li> <li>Recognize the importance of an early contact "skin to skin" and the importance of the first breastfeeding in the delivery room</li> <li>Admit the infant in the early postnatal period</li> <li>Explain the characteristics of a endangered newborn</li> <li>List the characteristics of a endangered newborn</li> <li>Explain the characteristics of the adaptation of the newborn to the extrauterine life</li> <li>Differentiate the adapting difficulties, predict the risk factors</li> <li>Explain the breathing, bloodstream, thermoregulation adaptation and recognize the irregularities to the adaptation to the extrauterine life</li> </ul>			
		<ul> <li>Assess successful breastfeeding and recognize the irregularities</li> <li>Explain and follow the rule "10 steps to successful breastfeeding"</li> <li>Recognize different pathological conditions and disease symptoms in a newborn</li> <li>Recognize the breathing changes in a newborn</li> <li>Recognize physiological jaundice and differentiate it from the pathological jaundice, predict the development</li> </ul>			

	• Decomption abromacion anothica and malfamentions					
	Recognize chromosomepathies and malformations					
	• List the characteristics of a pre-term baby and recognize the risks					
	• Perform veinpuncture and take blood and urine samples for laboratory					
	analysis					
	Keep obstetrical records					
11.						
	Theoretical lessons 30 lessons in the I semester:					
	1. Characteristics of the neonatal period					
	2. Adaptation of the newborn to the extrauterine life (monitoring the newborn in the early					
	postnatal period)					
	3. First aid to a newborn (assessing vitality, early and late clamping of the umbilical cord, importance of the first contact (skin to skin, the importance of the first breastfeeding in the					
	<ul><li>delivery room, prophylaxis)</li><li>4. Screening tests</li><li>5. Admitting the newborn in the nursery "rooming in"</li></ul>					
	6. Physiological characteristics of a newborn					
	7. Newborn's hygiene (wrapping and bathing, skin hygiene, taking care of the stump)					
	8. Physiological jaundice (characteristics, occurrence)					
	9. Reflexes					
	10. Vaccination in the neonatal period					
	11. Breastfeeding and nutrition (benefits of breastfeeding, techniques, irregularities, helping					
	<ul> <li>and education the mother)</li> <li>12. Newborn at risk (delivering a newborn with risks, characteristics, asphyxiation, assessing vitality)</li> </ul>					
	13. Birth traumas, evolution and prognosis (brain injuries and damage, seizures,					
	<ul> <li>hydrocephalus, microcephaly, craniosynostosis)</li> <li>14. Resuscitation of a newborn</li> <li>15. Placing the newborn in an incubator (using oxygen, placing a vein catheter – infusion,</li> </ul>					
	parenteral feeding and therapy, taking venous blood, peripheral blood, constant					
	monitoring)					
	16. Breathing problems (respiratory distress syndrome – RDS, newborn sleep apnea,					
	meconium aspiration syndrome, transitory tachupnea, respiratory infections)					
	17. Chromosome abnormalities and congenital malformations					
	18. Characteristics of pre-term babies (appearance and functional characteristics)					
	19. Care characteristics of a pre-term baby, care in an incubator, oxygen therapy					
	20. Nutrition of a pre-term baby (enteral feeding, placing a gastrostomy tube, parenteral					
	feeding)					
	21. Diseases and consequences due to pre-term birth					
22. Newborn with neurological risks (early intervention)						
	23. Bleeding disorder in a newborn (bleeding of the newborn)					
	24. Anemia in the neonatal period					
	25. Jaundice (hemolytic disease, phototherapy, exchange transfusion)					
	26. Infections (Soor, conjunctivitis, infections of the stump, sepsis, meningitis, connatal					
	infectious diseases)					
	27. Neonatal nephro-urology (most common pathological conditions)					
	28. Acute heart and circulation weakness in the neonatal period					
	29. Veinpuncture and taking blood and urine sample for laboratory analysis					
	30. Keeping obstetrical records					
	Seminars – Practical lessons: 5 lessons					

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	<ol> <li>Evaluation of a blood sample</li> <li>Laboratory diagnosis of sepsis in a newborn (microbiologic and viral analysis)</li> </ol>					
	3. Laboratory diagnosis in case of respiratory distress syndrome					
	<ol> <li>Laboratory test in case of jaundice</li> <li>Laboratory analysis of electrolyte and metabolic disorders (ABC evaluation)</li> </ol>					
12.						
13.	Total classes:	Teaching methods: Interactive classes 30, problem-related seminars 5 lessons         Total classes:       45				
14.	Organization			Theoretical lessons: 35 classes		
17.	O'BuillZution		Learning at home: 10 classes			
15.	Types of teaching activities		15.1	Lessons:	35	
	- )	-8		theoretical classes		
			15.2	Practical lessons		
16.	Other types of a	ctivities	16.1	Practice		
	**		16.2	Self-supporting		
				practice		
			16.3	Learning at home	10	
17.	Knowledge asse	esment	Points			
	17.1	Tests		rm exam 1: points 15		
				n form (multiple choi	ce)	
			Final e	xam: 25-40 points		
	17.2	Paper/project				
	1.5.0					
	17.3	Active participation	<b>T</b>	11	Min. – Max. Points $2 - 5$	
				ical lessons	2 5	
10	Creating	Theoretical lessons	Seminars(Practical lessons) 8 - 10		8 - 10	
18.	Grading criterion	Seminars (practical	2-5 8-10			
	(points/grades)	lessons)	8-10			
	(points/grades)	Mid-term exam 1	15-25			
		Oral exam	25-40			
		Total	50-80			
		10001	50-00			
19.	Requirements	To obtain a signature t	he stude	nt must gain minimu	m points from visiting the	
17.	. Requirements To obtain a signature, the student must gain minimum points from visiting the for obtaining a theoretical lessons and the seminars.				in points nom visiting the	
	signature and					
	attending the					
	final minimum points.				C	
	examination	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	Students' attendance and active participation in the theoretical and practical				
		evaluating the lessons.				
	quality of the					
	lessons					
22.	Literature					
	22.1 Mandatory literature					
	1.         Mary Rudolph, Tim Lee, Malcolm Leven, Pediatrics and					

		Children's Health, Ars Lamina, 2011
	2.	Robert C. Taker, Robert J. McLur, Carlo L. Acerinm
		Pediatrics Handbook, Ars Lamina, 2014
	3.	Ljubinka Marinkovikj, Health Care in Pediatrics,
		Belgrade, Primal, 2007
	4.	Authorized lectures of the Department
	5.	Kuzmanovska D., Grujovska S., Physical Diagnosis in
		Pediatrics, Medical Faculity, UKIM, 2011
22	.2 Additional literature	
	1.	Elizabeta Zisovska, Pediatrics and Care – textbook for
		medical nurses and medical technicians, University Goce
		Delchev – Shtip, 2019
	2.	Sunil Sinha, Lawrence Miall, Luke Jardine, 5 <sup>th</sup> edition
		Essential Neonatal Medicine, Wiley-Blackwell
		Publishing, 2013
	3.	Kenner Carole, Altimer Leslie, Comprehensive Neonatal
		Nursing Care 6 <sup>th</sup> edition, Springer Publishing, 2019