

1.	Subject	PEDIATRICS		
2.	Code	DA – 215		
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 second cycle)	Integrated cycle		
6.	Academic year/semester	II/III and IV	7. Credits	1.5 credits – III semester 1 credits – IV semester
8.	Professor	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	<p>Pediatrics is a medicine of the development stages that studies the physiological and pathological processes in childhood (from birth till the age of 18). Pediatric interest is dedicated to the child as an individual and the child population in general. The students will learn the characteristics of a healthy newborn and a child, as well as the basic physiological and pathological processes in the children's growth and development. They will get acquainted with the beneficial and harmful influences on children's health through the development of consciousness that the foundations of a healthy lifestyle come from childhood. They will base their future work on the Convention on the Rights of the Child and employ scientific bases in modern pediatric practice, prevention, professional therapy and numerous diseases of all the organ systems. The students will learn the fact that with care of children's health we decide the health condition of future generations of adults.</p> <p>After this program the students will gain:</p> <ul style="list-style-type: none"> • Basic theoretical and practical knowledge of pediatrics • Knowledge of the harmful influences on the child's development before birth, with special attention paid on nutrition and healthy lifestyle during pregnancy and foundations of genetics • Knowledge about the development of a normal, healthy child, the development issues and their treatment • Introduction to the preventative procedures in pediatrics • Introduction to specific childhood illnesses • Ability to work in a team, ability to communicate with an older child and a new mother • Ability to influence health and education for the benefit of a child, mother and the society in general • Proper knowledge and ability needed for handling common and important pediatric illnesses and urgent conditions • Professional behavior and problem solving communication skills • Ability for lifelong learning needed for their further professional development 		
11.	Content summary:	Theoretical lessons: 40 lessons (25 in the 3 rd semester and 15 in the 4 th semester)		

Theoretical lessons: (25 lessons in the 3rd semester)

1. Introduction to pediatrics
2. Preventative procedures in pediatrics and vital statistical data
3. Genetics (prenatal and postnatal diagnosis of congenital diseases, genetic counseling)
4. Neonatology, characteristics of the neonatal period
5. Growth and development of a healthy child and recognizing development issues
6. Nutrition and eating disorders
7. Water and electrolyte metabolism
8. Endocrinology, diabetes
9. Obesity and complications
10. Rickets
11. Pediatric gastroenterology
12. Liver and bile ducts disorders
13. Infections of the upper respiratory airways, bronchiolitis
14. Pneumonia, tuberculosis
15. Childhood asthma
16. Cystic fibrosis
17. Pediatric cardiology (congenital heart problems, bacterial endocarditis, myocarditis, pericarditis, cardiomyopathy, heart failure)
18. Rheumatic fever
19. Immunology and allergology
20. Vaccines
21. Childhood accidents
22. Medicines for children
23. Poisoning
24. Body temperature, meaning, procedures
25. Childhood chronic illnesses

Theoretical lessons: (15 lessons in the 4th semester)

1. Anemias
2. Malignant diseases
3. Hemorrhagic syndrome
4. Swollen lymph nodes
5. Pediatric nephrology, congenital anomalies and urinary tract infections
6. Nephritic syndrome, glomerulonephritis
7. Neuropediatrics (a disorder of consciousness, cerebral paralysis, neuromuscular diseases, CNS development anomalies)
8. Headache
9. Febrile seizure and epilepsy
10. Adolescence
11. Resuscitation and urgent pediatric conditions
12. Assessing and treating pain in children, health care of a child with an end-stage disease
13. Ethical questions concerning medicine in pediatrics
14. Health and educational influence for the benefit of the child, the mother and the society
15. Certain childhood behavior disorders, ADHD (attention deficit hyperactive disorder)

Practical lessons: 20 lessons (10 in the 3rd semester and 10 in the 4th semester)

Gaining clinical skills and practical use of the gained theoretical knowledge. The training is mandatory and is performed in different departments under the guidance of a mentor-professor and

	<p>a medical nurse responsible for that department. The student must participate full-time in all the health care activities and write a journal about them.</p> <p>Practical lessons: 10 lessons in the 3rd semester</p> <ol style="list-style-type: none"> Care of a healthy newborn in the nursery and at home, natural foods, breastfeeding and breastfeeding techniques Newborn care, feeding in the first year Care of a sick newborn (sepsis, jaundice, staphylococcal skin infections) Hospital-acquired infections – preventions, neonatology diagnostic and therapeutic procedures (phototherapy, exchange transfusion therapy) Feeding mistakes, health care of children with eating disorders, feeding tube, enteral and parenteral feeding Care of children with cardiovascular problems Intoxication procedures Care of children with kidney and urinary tract problems, diagnostic and therapeutic procedures in nephrology, dialysis Care of children with blood disorders Diagnostic and therapeutic procedures in hematology, blood and blood products therapy <p>Practical lessons: 10 lessons in the 4th semester</p> <ol style="list-style-type: none"> Care of children with gastrointestinal tract and liver disorders, diagnostic and therapeutic procedures in gastroenterology, endoscopy Health care of children with respiratory tract disorders Diagnostic and therapeutic procedures in pulmonology, PPD, spirometry, inhalation therapy, percutaneous-postural drainage, oxygen therapy Intensive care of a vitally endangered child, tracheobronchial aspiration, artificial respiration, vital functions monitoring, resuscitation Care of a child with diabetes mellitus, insulin therapy Care of a child with endocrine glands problems, tests in endocrinology Care of children with immune disorders, allergies and rheumatic problems, anaphylactic shock, shock therapy Health care of children with CNS problems, interventions in children with disorders of consciousness Health care of children with congenital disorders Approach towards adolescents 			
12.	Teaching methods: Interactive theoretical lessons 40, practice 20			
13.	Total classes:	75		
14.	Organization	Theoretical lessons: 40 Learning at home 15		
15.	Types of teaching activities	15.1	Lessons: theoretical classes	40
		15.2	Practical lessons	Practical lessons-seminars
16.	Other types of activities	16.1	Training	
		16.2	Self-supporting practice	
		16.3	Learning at home	15
17.	Knowledge assessment	Points		
	17.1	Tests	Min.-max. 15 - 25	
		Mid-term exams * 2:		

			Final exam: 20 – 35 *Mid-term exams: 2 multiple choice tests Cover everything in pediatrics: Midterm exam 1: neonatology, nutrition, metabolic disorders, genetics, immunology, pulmonology, gastroenterology, endocrinology 15-25 points Midterm exam 2: emergency pediatrics, haemato-oncology, nephrology, neurology, cardiology, 15-25 points
	17.2	Paper/project (oral/written presentation)	
	17.3	Active participation	Theoretical lessons: 2-5 points Practical lessons: 8-10 points
18.	Grading criterion (points/grades)	Theoretical lessons	2-5
		Practical lessons	8-10
		Mid-term exam 1	15-25
		Mid-term exam 2	15-25
		Final exam	20-35
		Total	60-100
19.	Requirements for obtaining a signature and attending the final examination	<p>To obtain a signature, the student must gain minimum points from visiting the lessons and the seminars.</p> <p>To attend the final exam, the student must pass the mid-term exams and gain at least minimum points.</p> <p>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 the final exam.</p>	
20.	Language	Macedonian	
21.	Method of evaluating the quality of the lessons	Students' attendance and interactive participation in the theoretical and practical lessons.	
22.	Literature		
	22.1	Mandatory literature	
		1.	Mary Rudolph, Tim Li, Malcolm Leven, Pediatrics and Children's Health, Ars Lamina, 2011
		2.	Robert C. Taker, Robert J McLur, Carlo L Acerin, Pediatrics Handbook, Ars Lamina 2014
		3.	Robert M. Kligman, Richard E. Berman, Hall B Jenson, Bonita F Stanton, Nelson's Pediatrics textbook, Tabernakul, 2013
		4.	Mardeshikj et al, Pediatrics, Shkolska knjiga, Zagreb, 2016
		5.	Ljubinka Marinkovikj, Health care in pediatrics, Beograd, Primal, 2007
	6.	Kuzmanovska D., Grujovska S., Physical diagnosis in Pediatrics, UKIM Medical Faculty, 2011	

		7.	Authorized lectures from the professors of the Pediatrics department
	22.2	Additional literature	
		1.	Elizabeta Zisovska, Pediatrics and care – Textbook for medical nurses and technicians, University Goce Delcev, Shtip, 2019