

1.	Subject	LABORATORY DIAGNOSTICS IN PEDIATRICS			
2.	Code	MLD – 213			
3.	Study program:	Three-year professional studies of medical laboratory diagnostics			
4.	Conducted by	UKIM – Medical Faculty Department of Pediatrics			
5.	Degree of education (first or second cycle)	First cycle			
6.	Academic year/semester	II/III	7.	Credits	2
8.	Professor	Department professors			
9.	Prerequisite	None			
10.	Goals	<ul style="list-style-type: none"> • The student will gain foundation theoretical knowledge of the subject Pediatrics and Laboratory Diagnostic of pediatric pathology • Will become able to approach independently when performing laboratory procedures in pediatrics 			
11.	Content summary:	<p>Theoretical lessons (20 lessons):</p> <ul style="list-style-type: none"> • Good laboratory practice • Ethics in laboratory diagnostics • Normal hematopoiesis • Diagnostic methods in hematology • Disorders of the endocrine system • Diabetes mellitus in childhood – laboratory monitoring • Congenital heart problems, myocarditis and cardiomyopathy • Autoimmune disorders in childhood/specific diagnostic tests • Respiratory system disorders • Intoxication in children – laboratory diagnostic • General characteristics of the immune system – and laboratory analyses for global immune evaluation • Diseases of the gut tract • Dehydrations: laboratory tests • Metabolic disorders in newborns • CNS – function, most common disorders • Urinary tract disorders • Characteristics of the laboratory tests in neonatology • Electrolytes status • Laboratory diagnostic of children on intensive therapy • Communication skills in working with children of different ages <p>Practical lessons (10 lessons):</p> <ul style="list-style-type: none"> • Evaluation of peripheral smear and bone marrow smear • Diagnostic methods in pediatric oncology • Laboratory analyses and tests in endocrinology • Specific laboratory tests in pediatric cardiology • Laboratory diagnosis in case of respiratory insufficiency • Specific immunology tests for determining immunodeficiency • Laboratory tests in case of abnormal liver function 			

	<ul style="list-style-type: none"> • Laboratory analysis of metabolic disorders, evaluation of ABC • Laboratory analysis of cerebrospinal fluid • Laboratory diagnosis of kidney insufficiency 			
12.	Teaching methods: Interactive theoretical lessons, seminars			
13.	Total classes:	30		
14.	Organization			
15.	Types of teaching activities	15.1	Lessons: theoretical classes	20
		15.2	Practical lessons, seminars	10
16.	Other types of activities	16.1	Training	
		16.2	Self-supporting practice	
		16.3	Learning at home	
17.	Knowledge assessment		Points	
	17.1	Mid-term exams	Points 30 – 50 min.-max	
	17.2	Final exam	The exam is in a written form. It consists of the mid-term exam that the student didn't pass.	
	17.3	Paper/project (oral presentation)	Theoretical lessons Practical lessons Mid-term exam Total	Min. – Max. 7.5 - 10 12.5 - 20 40 - 75 60 - 100
	17.4	Active participation	Theoretical lessons Practical lessons	Min. – Max. 1 - 2 4 - 6
18.	Grading criterion (points/grades)	Up to 59	5 (five) F	
		60-68	6 (six) E	
		69-76	7 (seven) D	
		77-84	8 (eight) C	
		85-92	9 (nine) B	
		93-100	10 (ten) A	
19.	Requirements for obtaining a signature and attending the final examination	To obtain a signature and attend the mid-term exam, the student must regularly attend the seminars and prepare a paper. The final grade is based on the sum of the points from all the activities.		
20.	Language	Macedonian		
21.	Method of evaluating the quality of the lessons	Students' anonymous evaluation of the subjects, the professors and collaborators who hold the lessons.		
22.	Literature:			
	22.1	Mandatory literature		
		1.	Authorized lectures	

	22.2	Additional literature	