CLINICAL HAEMATOLOGY				
GENERAL INFORMATION				
Course teacher	Asst. Prof. Vlatka Periša, MD, PhD			
Associates	Asst. Prof. Maja Bogdan, MD, PhD			
	Asst. Prof. Jasminka Rajc, MD, PhD			
	Asst. Prof. Mirjana Suver Stević, PhD			
	Marija Milić, MMedBiochem, PhD			
	Stefan Mrđenović, MD, PhD			
	Danijela Mjeda, MD			
Church under grant and	Zdravka Krivdić Dupan, MD			
Study programme	Graduate University Study of Medical Laboratory Diagnostics			
Course status	mandatory			
	1 st year, 1 st semester			
Year of study, semester				
ECTS credits	5			
Form of teaching (number of classes)	Lectures: 30; Seminars: 30			
Expected number of students attending the	20			
course				
COURSE DESCRIPTION				
Course objectives				
To train the student to be able, based on modern	knowledge in hematology, to critically evaluate			
and select an appropriate hematological examinat				
diagnostic problems, following therapeutic protoc	ols and scientific research work.			
Course entry requirements and competencies nee				
Completed courses at the Undergraduate Study Pr	ogramme of Medical Laboratory Diagnostics			
or equivalent bachelor's degree (baccalaureate)				
Learning outcomes at study programme level				
1.1, 1.2, 2.1, 2.2, 2.3, 2.6, 2.7, 3.1, 3.2				
Expected learning outcomes at course level	de la contractiva de la constructiva de la cons			
After attending lectures, seminars, independent st	tudy, and passing the exam, students will be			
able to: 1. recommend different hematological tests	in diagnosing discassos, solving differential			
 recommend different hematological tests diagnostic problems and monitoring thera 				
 critically assess the changes in the function 				
diagnostic procedures used to monitor the				
3. choose the laboratory analysis required fo				
 recommend an adequate method of labor 				
5. organize work in hematology and oncology clinical or research laboratories.				
Course content	,			
Lectures: Normal haematopoiesis. Bone marrow s	structure and function. Immune system structure			
and function. Laboratory tests in haematology.	-			
diagnostics. Laboratory testing of haemostasis. Immunological tests. Cytogenetics in haematology				
Nuclear haematology. Cell cultures in vivo. Role c				
cells disorders. Granulocyte disorders. Monocyte	e and macrophage disorders. Lymphocyte and			
plasma cells disorders. Leukaemia. Laboratory teo				
	treatment. Diseases caused by haemostasi			
disorders. Laboratory monitoring of cytostatic				
disorders. Laboratory monitoring of cytostatic disorders. Haemorrhagic syndromes caused by thr	-			
	ombocytopenia and coagulopathy. Haemophilia			

chronic lymphocytic leukemia; Microscopic diagnosis of malaria, Leishmeniasis, trypanosomiasis, babesiosis.

Forms of teaching

Lectures and seminars

Students' responsibilities

Attendance is obligatory throughout all course forms, and the student has to attend all the exams. Student absence of up to 30% is considered acceptable in each teaching form. Practical work and seminars that were not completed have to be taken in the form of colloquiums.

Monitoring students' work (Connecting learning outcomes, teaching methods and evaluation) Seminar paper, Written exam, Oral exam

Teaching activity	ECTS	Learning	Student activity	Evaluation	Grade points	
		outcome		methods	Min.	Max.
Attending classes	1.5	1-5	Attendance,	Attendance	1	5
(lectures, seminars)			Sominar paper	records Writing and		
seminars			Seminar paper	presenting	10	20
				seminar paper	10	20
Final exam	3.5		Studying for final	Written exam	20	45
			exam	Oral exam	19	30
Total	5				50	100

Evaluation of written part of final exam:

Percentage of correct answers (%)	Grade	Grade points
60% - 70%	Sufficient (2)	20
71% - 80%	Good (3)	25
81% - 90%	Very good (4)	35
91% - 100%	Excellent (5)	45

Formulating the final grade:

Grade points achieved in classes are combined with points achieved in the final exam. Grading system involves absolute grading and represents one's final achievement. Grades are numerically expressed as follows: A – excellent (5): 80-100 grade points; B – very good (4): 70-79.99 grade points; C – good (3): 60-69.99 grade points; D – sufficient (2): 50-59.99 grade points

Assigned reading (available in the library and in other media)					
	Number of	Availability in			
Title	copies in the	other media			
	library				
Labar B et al. Hematologija. Zagreb, Školska knjiga, 2017	7				
Mihić D, Mirat J, Včev A et al. Interna medicina. 1. izdanje.	24				
Osijek, Studio HS internet d.o.o.; 2021.					

Further reading

1. Hauptman E, Črepinko I. Osnove kliničke hematologije. ŠK, Zagreb, 1991.

2. Mc Kenzie. Clinical laboratory Hematology ed E Zeibig Pearson Education, Inc. Upper Saddle River, New Jersey, 2004.

Quality assurance methods that ensure the acquisition of exit competencies

Anonymous, quantitative, standardised students' opinion survey on the course and teacher's work, carried out by the Quality Assurance Office of the Faculty of Medicine in Osijek. **Note** E-learning does not enter the course of the subject but it is used in teaching and contains links to different pages, videos and audio materials available on the web pages.