

SUBJECT OUTLINE

1. Programme of study description

1.1.	THE "CAROL DAVILA" UNIVERSITY OF MEDICINE AND PHARMACY
1 2	THE FACULTY OF MEDICINE / THE CLINICAL DEPARTMENT 8 Radiology, Oncology,
1,4,	Hematology
1.3.	DISCIPLINE - HEMATOLOGY
1.4.	DOMAIN OF STUDY: Healthcare – regulated sector within the EU
1.5.	CYCLE OF STUDIES: BACHELOR'S DEGREE
1.6.	PROGRAMME OF STUDY: MEDICINE – ENGLISH TEACHING MODULE

2. Su	ıbject des	cription									
2.1.	Name	of the	subject/compuls	sory su	bject/e	elective	9 8	subject v	vithin	the d	liscipline:
	HEMAT	OLOGY									
2.2.	Location of the discipline:										
2.3.	Course tenured coordinator:										
2.4.	Practica	ls/clinica	l rotations tenure	d coordi	nator:						
2.5.	Year of	f VI -	2.6. Semester	XI or	2.7.	Type	of	Written	2.8.	Subject	Mandat
study	y	english		XII	asses	sment		and	classi	ification	ory
		teachin						practical			
		g						examinat			
		modul						ion			

3. Total estimated time (hours/semester of didactic activity) – teaching module

Number of hours per	25	Out of which:	10	Clinical rotation	15 hours
week	hour	course	hours		
	S				
Total number of hours	65	Out of which:	26	Clinical rotation	39 hours
from curriculum	hour	course	hours		
	S				
Distribution of allotted	3	Out of which lectures	2		3 hours
time	Wee		hours		/day
	ks		/ day		
Study from toythooks, courses, hibliography, and student notes					

Study from textbooks, courses, bibliography, and student notes		
Additional library study, study on specialized online platforms and field study		
Preparing seminars / laboratories, assignments, reports, portfolios and essays		
Tutoring		
Examinations		
Other activities		
Total hours of individual study		
Number of credit points	4	

4. Prerequisites (where applicable)

it i fer equisites (where applicable)		
4.1. of curriculum	.1. of curriculum Anatomy, Biochemistry, Physiology, Genetics,	
	Pharmacology, Medical Semiology	
4.2. of competencies	Anamnesis and physical examination of patient	

5. Requirements (where applicable)					
5.1. for delivering the course	Classroom, Video Projector, Laptop / PC				
5.2. for delivering the clinical rotation	Departments of Clinical Hematology / laboratories				



6. Acquired specific competencies

Professional competencies (expressed	- Description of the concepts, theories, and fundamental data
through knowledge and skills)	regarding the occurrence of diseases, signs and symptoms
	characteristic of each disease useful for the orientation of the
	clinical diagnosis in hematology
	- Description of the mechanisms of action of drugs,
	indications, contraindications and adverse effects of the
	therapeutic resources used in medical practice as well as
	knowledge of resuscitation maneuvers in first aid / emergency
	situations in hematology
	- Correct assessment of the risk of illness or the context of the
	occurrence of an individual / collective illness, followed by the
	choice and application of appropriate prophylaxis measures.
	- Clinical examination of haematological patient
	- Diagnostic algorithm in anemic / hemorrhagic / thrombotic
	syndromes
	- Interpretation results
	- Establishment of a hematological diagnosis, on clinical and
	paraclinical basis
	- Correct treatment of anemia / treatment principles in
	malignant haematological diseases
Transversal competencies (of role, of	• Identification of the roles and responsibilities in a
professional and personal development)	multidisciplinary team; application of an effective relationship
professional and personal development)	and work techniques within the team and in relation to the
	patient.
	• Effective use of information sources, assistive
	communication and training resources (Internet portals,
	specialized software applications, databases, on-line courses,
	etc.) both in Romanian and in an international language
	Ability to communicate with the patient with malignancy and
	with his / her relatives.
	Patient approach with terminal illness.
	• Forming critical spirit, empathy, professional deontology and
	assuming responsibility

7. Subject learning objectives (based on the scale of acquired specific competencies)

7.1. General learning objective		
7.2. Specific learning objectives		

8. Content

8.1. Course	Teaching methods	Observations
1. Hematopoiesis, Anemias: general considerations and classification.	Direct exposure electronic media (PowerPoint presentation)	2 hours
2. Macrocytic Anemias	Direct exposure electronic media (PowerPoint presentation)	2 hours
3. Microcytic Anemias	Direct exposure electronic media (PowerPoint presentation)	2 hours
4. Hemolytic Anemias	Direct exposure electronic media (PowerPoint presentation)	2 hours
5. Acute Leukemias (1)	Direct exposure electronic media (PowerPoint presentation)	2 hours
6. Acute Leukemias (2) Chronic Lymphoproliferative Syndromes .	Direct exposure electronic media (PowerPoint presentation)	2 hours
7. Monoclonal Gammopathies	Direct exposure electronic media (PowerPoint presentation)	2 hours



8. Non- Hodgkin Lymphomas	Direct exposure electronic media (PowerPoint presentation)	2 hours
9. Hodgkin Lymphomas; Chronic myeloid leukemia	Direct exposure electronic media (PowerPoint presentation)	2 hours
10. Myeloproliferative neoplasm	Direct exposure electronic media (PowerPoint presentation)	2 hours
11. Hemostasis: Physiology and Lab tests	Direct exposure electronic media (PowerPoint presentation)	2 hours
12. Pathology of Haemostasis (1)	Direct exposure electronic media (PowerPoint presentation)	2 hours
13. Pathology of Haemostasis (2)	Direct exposure electronic media (PowerPoint presentation)	2 hours

8.2. Clinical rotation	Teaching methods	Observations
Direct presentation of clinical cases /	Direct interaction with the patient / medical	31 hours
haematological patients from	history / Clinical examination of patient /	
Hematology Departments	Laboratory evaluation / Blood disease	
	recognition based on specific investigations.	
Presentation and interpretation of	Discussing at the patient's bed	2 hours
normal and pathological blood count		
analysis (types of diseases)		
Normal and pathological haemostasis	Case presentations, the practical implications	3 hours
analysis: interpretation	of these laboratory analyzes	
Presentation of modern instruments in	Case presentations, the practical implications	3 hours
hematological diseases: cytogenetics /	of these laboratory analyzes	
FISH, flow cytometry, molecular		
biology		
Direct presentation of clinical cases /	Direct interaction with the patient / medical	31 hours
haematological patients from	history / Clinical examination of patient /	
Hematology Departments	Laboratory evaluation / Blood disease	
	recognition based on specific investigations.	

Bibliography for course and clinical rotation

Department manual: Hematologie Clinică, Anca Roxana Lupu, Ana Maria Vladareanu, Daniel Coriu, Editura UMF Carol Davila, Sept 2017

Compendiu de Specialitati Medico- Chirurgicale (pentru rezidentiat), sub redactia Victor Stoica, Viorel Scripcaru, Editura Medicala, 2016

A beginner's guide to blood cells / Barbara J. Bain. – 2nd ed.

Practical Haematology; Dacie and Lewis; Eleventh Edition, 2012

Essential Haematology; Victor Hoffbrand, Paul Moss, John Pettit, 7th Edition (2016)

9. Corroboration of the subject content with the expectations of the representatives of the epistemic community, professional associations, and major employers in the field of the programme of study

Appropriate training at the end of the hematology internship provides the premises for admission to the residency program and the conduct of a successful medical activity.

10. Assessment

Type of activity	Assessment criteria	Assessment methods	Assessment weighting within the final grade
Course	Knowledge of theoretical notions in hematology	Written exam	60%
Clinical rotation	Activity during clinical practice	daily attendance at the internship / discussion	10%



		with the professor	assistant	
	- Diagnostic orientation	Practical	examination	30%
	for patients with	with the	assistant	
	haematological disease	professor		
	(anamnesis, clinical			
	examination,			
	investigation plan);			
	diagnosis formulation;			
	treatment principles for			
	emergency presentation			
	or routine presentation.			
	- interpreting an blood			
	counts bulletin			
Minimum performance standard				
Minimum 50% for each evaluation component				

Date of filing
08 Sept 2022
Signature of the course tenured Signature of the seminar tenured coordinator

Date of approval in the Council of the Department:

Signature of the Head of the Department

08 Sept 2022