

COURSE DESCRIPTION

1. Programme details

1.1 Higher education institution	VICTOR BABEȘ UNIVERSITY OF MEDICINE AND PHARMACY TIMIȘOARA
1.2 Faculty	FACULTY OF MEDICINE
1.3 Department	V
1.4 Field of study ¹⁾	BACHELOR
1.5 Cycle of studies ²⁾	BACHELOR
1.6 Study programme/Qualification	MEDICINE

2. Information about the discipline

2.1. Name of the discipline	Translational hematologic pathology							
2.2 Course coordinator	Prof. Univ. Dr. Ionița Ioana							
2.3 Laboratory coordinator								
2.4 Year of study	V	2.5 Semester	II	2.6 Type of assessment	Colloquium	2.7 Course requirements	Content ³⁾	DS
							Compulsory ³⁾	DO

3. Total estimated time (hours per semester of teaching activities)

3.1 Number of hours per week	1	3.2 of which: lectures	1	3.3 laboratory	-
3.4 Total hours in the curriculum	14	3.5 of which: lectures	14	3.6 laboratory	-
Distribution of time					hours
Study using textbooks, course materials, bibliography and notes					12
Additional research in the library, on specialised electronic platforms and in the field					11
Preparation for seminars/labs/projects, assignments, reports, portfolios and essays					<u>12</u>
Tutoring					
Examinations					1
Other activities					
3.7 Total hours of individual study	35				
3.8 Total hours per semester	50 (2 credits x 25 hours/credit)				
3.9 Number of credits ⁵⁾	2				

4. Prerequisites (where applicable)

4.1 Curriculum	Physiopathology, Medical Emergencies
4.2 Skills	Interpretation of a test report

5. Conditions (where applicable)

5.1 Course delivery	<ul style="list-style-type: none"> Mobile phones must be switched off during classes, and phone calls during class are not permitted, nor are students allowed to leave the classroom to take personal phone calls. Students will not be tolerated for arriving late to class, as this proves disruptive to the educational process. Attendance at the course is compulsory, with a maximum of 50% of total absences being accepted.
5.2 Conduct of the seminar/laboratory/project	<ul style="list-style-type: none"> Mobile phones must be turned off during laboratory sessions, and phone calls during the laboratory session or students leaving the laboratory room to take personal phone calls will not be tolerated. Students will not be tolerated for being late to the laboratory, as this proves disruptive to the educational process; Attendance at internships/practical work is mandatory, with a maximum of 20% of total absences being accepted;

	<ul style="list-style-type: none"> • A maximum of 30% of the total number of absences may be made up on a paid basis (except in medical cases, for which individual approval from the Dean's Office will be required); • The practical exam will be held in the last week of the semester or during the regular exam session, covering the topics of the practical work/laboratories/internships posted in advance.
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6. Specific skills acquired

Skills Professional	<ol style="list-style-type: none"> 1. Acquisition of terminology in haematology; 2. Ability to correlate clinical data with paraclinical investigation results in order to establish the diagnosis of hematological disorders;
Transversal	<ol style="list-style-type: none"> 1. Commitment to professional development through training in critical thinking skills, demonstrated by active participation in courses and laboratories/seminars/projects; 2. Involvement in scientific research activities through participation in the development of reports, studies, and specialised articles; 3. Effective use of information sources and communication and assisted professional training resources (Internet portals, specialised software applications, databases, online courses, etc.) in both Romanian and an international language;

7. Course objectives (based on the specific skills acquired)

7.1 General objective of the discipline	Acquisition of the ability to integrate clinical, morphological, and molecular knowledge in order to understand the mechanisms of hematological diseases and to apply them in diagnosis, prognosis, and therapeutic management.
7.2 Specific objectives	<p>Correlation of clinical data with modern paraclinical investigations (hematological, immunophenotypic, cytogenetic, and molecular);</p> <p>Understanding the principles of targeted and personalized therapies in hemato-oncology;</p> <p>Identification and use of relevant biomarkers in the diagnosis, risk stratification, and monitoring of hematological diseases;</p>

8. Contents

8.1 Course	Teaching methods	Number of hours	Comments
1. Hematopoiesis and molecular regulation of cellular differentiation	INTERACTIVE LECTURE	1	<ul style="list-style-type: none"> • Oral lecture supported by structured, interactive PowerPoint presentations, accompanied by rich and evocative iconography. • The material taught is reviewed and supplemented with new information relevant to the specialisation. • Each course begins by presenting the educational objectives and ends with a summary of the concepts presented.
2. Laboratory investigations in hematology		1	
3. Immune complications in hemato-oncology		1	
4. Thrombotic complications in hemato-oncology		1	
5. Infection prophylaxis in hematological patients		1	
6. Principles of vaccination in patients with malignant hemopathies		1	
7. Diagnosis and management of febrile neutropenia		1	
8. Definition and classification of chronic myeloproliferative neoplasms		1	
9. Definition and classification of myelodysplastic syndromes		1	
10. Management of immune thrombocytopenic purpura		1	
11. Management of paroxysmal nocturnal hemoglobinuria		1	
12. Porphyrias and disorders of heme metabolism		1	
13. Targeted therapies in hematology		1	

14. Minimal residual disease: detection methods and clinical significance		1	
Required reading: <ol style="list-style-type: none"> 1. Adam Feather, David Randall, Mona Waterhouse: Kumar and Clark Clinical Medicine, Leonard Azamfirei, Anca Dana Buzoianu, Dan Ionut Gheonea, 10th edition, Hipocrate Publishing House, Bucharest, 2021 2. Harrison's Principles of Internal Medicine, 21st Edition, 2018; 3. Wintrobe's Clinical Haematology 14th Edition, Lippincott Williams and Wilkins 2018. 			

9. Corroboration of the course content with the expectations of representatives of epistemic communities, professional associations and representative employers in the field related to the programme

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10. Assessment

Type of activity	10.1 Assessment criteria	10.2 Assessment methods	10.3 Weight in the final mark
10.4 Course	<i>Knowledge for a grade of 5:</i> minimum 50% of the maximum score <i>Knowledge for grade 10:</i> 90% - 100% of the maximum score	Colloquium	100%
10.5 Minimum performance standard			
<ul style="list-style-type: none"> ▪ Knowledge of haematological pathology – diseases and syndromes; ▪ Mastery of specific laboratory tests in the exploration of haemostasis and haematopoiesis and their interpretation ▪ Ability to monitor a patient with haematological pathology. 			

Date of completion	Signature of the course lecturer Prof. Dr. Ionita Ioana	Signature of the laboratory/internship coordinator
Signature of the head of department Prof. Dr. Ionita Ioana		
Date of approval by the department	Signature of the department director Assoc. Prof. Dr. Buzăş Roxana	

Note

- 1) Field of study - *choose one of the options*: Bachelor's/Master's/Doctorate (**to be completed in accordance with the Nomenclature of fields and specialisations/university study programmes in force**);
- 2) Study cycle - *choose one of the options*: Bachelor's/Master's/Doctorate;
- 3) Discipline regime (content) - *choose one of the following options*: **DF** (fundamental discipline)/ **DD** (discipline in the field)/ **DS** (specialised discipline)/ **DC** (complementary discipline) - *for bachelor's degree level*; **DAP** (advanced discipline)/ **DSI** (synthesis discipline)/ **DCA** (advanced knowledge discipline) - *for master's level*;
- 4) Subject regime (compulsory) - *choose one of the following options*: **DI** (compulsory subject)/ **DO** (optional subject)/ **DFac** (elective subject);
- 5) One credit is equivalent to 25 hours of study (teaching activities and individual study).

*number of hours of individual study (point 3.7.) = total number of hours (number of credits X 25) minus the number of hours in the curriculum (point 3.4) minus the hours allocated for examinations. These hours are divided between

Study using textbooks, course materials, bibliography and notes	
Additional research in the library, on specialised electronic platforms and in the field	
Preparation for seminars/labs/projects, assignments, reports, portfolios and essays	
Tutoring	

- 6) For specialisations and/or subjects whose topics are included in the residency bibliography, this becomes mandatory. Of the bibliographic titles, 50% must be from the last 5 years.