

TOROS ÜNİVERSİTESİ

Vocational School
Medical Laboratory Techniques

Course Information

HEMATOLOGY

Code	Semester	Theoretical	Practice	National Credit	ECTS Credit
		Hour / Week			
TLT201	Fall	2	2	3	5

Prerequisites and co-requisites	No
Language of instruction	Turkish
Type	Required
Level of Course	Associate
Lecturer	Lec. Dr. Ümit YAŞAR
Mode of Delivery	Face to Face
Suggested Subject	No
Professional practise (internship)	None
Objectives of the Course	To give knowledge and skills about hematologic analysis
Contents of the Course	Structure of blood, blood taking techniques Anticoagulants Bone marrow aspiration technique and bone marrow cells Anemia causes and differential diagnosis Anemia causes and differential diagnosis Hematocrit, erythrocyte sedimentation rate Hemoglobin structure, determination methods Erythrocytes, counting methods White blood cells, counting methods Blood groups, blood grouping techniques Coagulation of blood, usage techniques

Learning Outcomes of Course

#	Learning Outcomes
1	Shaped elements and tools used for the determination of blood according to the characteristics to explain.
2	Blood Transfusion tests assess the compatibility between the transmitter and receiver.
3	Will learn about the methods of determination of blood groups
4	Hematologic tests will learn about laboratory techniques.

Course Syllabus

#	Subjects	Teaching Methods and Technics
1	Capillary blood taking: finger and heel	Lecture, practice
2	Venous blood taking, venous blood taking by vaccum, arterial blood taking	Lecture, practice
3	Anticoagulant preparation and usage	Lecture, practice
4	Preparation of serum, plasma and whole blood sample	Lecture, practice
5	Preserving blood samples and transfer between disciplines	Lecture, practice
6	Eritrosit sayımı	Lecture, practice
7	Leucocyte counting	Lecture, practice
8	Midterm	
9	Trombocyte counting	Lecture, practice
10	Hematocrite, methods of hematocrite	Lecture, practice
11	Hemoglobin electrophoresis, Erythrocyte indices	Lecture, practice

12	Smear preparation, leucocyte and reticulocyte counting in smear	Lecture, practice
13	Bone marrow aspiration, Sedimentation	Lecture, practice
14	Bone marrow aspiration, Sedimentation	Lecture, practice
15	Final Exam	
16		

Course Syllabus

#	Material / Resources	Information About Resources	Reference / Recommended Resources
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Method of Assessment

#	Weight	Work Type	Work Title
1	40%	Mid-Term Exam	Mid-Term Exam
2	60%	Final Exam	Final Exam

Relationship between Learning Outcomes of Course and Program Outcomes

#	Learning Outcomes	Program Outcomes	Method of Assessment
1	Shaped elements and tools used for the determination of blood according to the characteristics to explain.	1,2,3	1,2
2	Blood Transfusion tests assess the compatibility between the transmitter and receiver.	2,5,13	1,2
3	Will learn about the methods of determination of blood groups	1,2,3	1,2
4	Hematologic tests will learn about laboratory techniques.	2,3,5,13	1,2

PS. The numbers, which are shown in the column Method of Assessment, presents the methods shown in the previous table, titled as Method of Assessment.

Work Load Details

#	Type of Work	Quantity	Time (Hour)	Work Load
1	Course Duration	14	4	56
2	Course Duration Except Class (Preliminary Study, Enhancement)	14	4	56
3	Presentation and Seminar Preparation	0	0	0
4	Web Research, Library and Archival Work	0	0	0
5	Document/Information Listing	0	0	0
6	Workshop	0	0	0
7	Preparation for Midterm Exam	1	3	3
8	Midterm Exam	1	1	1
9	Quiz	0	0	0
10	Homework	0	0	0
11	Midterm Project	0	0	0
12	Midterm Exercise	0	0	0
13	Final Project	0	0	0
14	Final Exercise	0	0	0
15	Preparation for Final Exam	1	3	3
16	Final Exam	1	1	1
				120

