



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Blood Biochemistry							
Course Code		TL306		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	76 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Whole blood, a complete blood count (Cbc) and blood Biochemistry-related General parameters and to have knowledge about the results intended.							
Course Content		Whole blood and reference values, research methods, IMI and causes abnormal status Blood biochemistry reference values, research methods, IMI and causes abnormal status							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Case Study, Individual Study					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading

1	Klinik Biyokimya Laboratuvarı El Kitabı, Idris Mehmetoğlu, Nobel Tıp Kitabevleri, 2007
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Week	Weekly Detailed Course Contents	
1	Theoretical	Blood, composition and functions and General blood tests
2	Theoretical	Whole blood (Total blood), blood samples must be taken of
3	Theoretical	Blood count (Hemogram) reference values, analysis methods, pathologies
4	Theoretical	Sedimentation reference values, analysis methods, pathologies,
5	Theoretical	The Hemoglobin reference values, the hemotocrit., analysis methods, pathologies
6	Theoretical	Bleeding clotting factors.APTT,ACT,PT,APZ reference values, analysis methods, pathologies
7	Theoretical	Blood Enzymes (liver, kidney, heart), reference values, analysis methods, pathologies
8	Intermediate Exam	MIDTERM EXAM
9	Theoretical	Lipitler and analysis of reference values, analysis methods, pathologies
10	Theoretical	Determination of blood Groups and blood transfusions before testing
11	Theoretical	Hormone analysis reference values, analysis methods, pathologies
12	Theoretical	Acute phase proteins are reference values, analysis methods, pathologies
13	Theoretical	Hepatitis markers and interpretation
14	Theoretical	Tumor markers and interpretation
15	Theoretical	Other body fluids and the reference values, analysis methods, pathologies

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	5	10
Seminar	3	0	5	15
Midterm Examination	1	7	1	8
Final Examination	1	14	1	15
Total Workload (Hours)				76
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	The simplest level at the end of the course the students complete blood and blood biochemistry parameters must have basic knowledge about
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2	Understand the basic principles of biochemistry, to recognize the remarkable points on taking the blood sample
3	May identify laboratory safety and may apply laboratory safety rules
4	Hormones the definition, classification, metabolism and the relationship between laboratory tests and disease
5	Hemoglobin-Porpyrin the definition, metabolism and the relationship between laboratory tests and disease

Programme Outcomes (Anesthesia)

1	To be able to recall basic knowledge about human anatomy
2	To be able to recall the knowledge about Atatürk's principles and the history of Turkish Revolution
3	To be able to recall the knowledge about ethical and moral values
4	To be able to recall the knowledge of Turkish grammar and be able to use it
5	To be able to communicate effectively with patient, their family, and own team
6	To be able to control, use, and maintain the anesthesia machines
7	To be able to recall the information about anesthesia application in the system diseases
8	To be able to recall the issues that needed to be considered in follow-up of patients in intensive care.
9	To be able to make the patients' care in intensive care
10	To be able to apply the cardiopulmonary resuscitation.
11	To be able to apply the drug, liquid and blood to the patient.
12	To be able to apply nasogastric tube to the patient and to aspirate.
13	To be able to assist the implementation of general anesthesia to patient.
14	To be able to recall the drugs used in general and regional anesthesia and learn to use them safely.
15	PO15. Can help during the maintenance, ending and post anaesthesia process.
16	Can help the practices of anesthesia and sedation outside the operation room.
17	Can communicate at the basic level of a foreign language and use this language in his job.
18	Be able to communicate at a basic level in a foreign language and be able to use this language in professional fields
19	To have the appropriate knowledge of basic sciences at the level of interest, to use specific medical terms and terminology of field

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	4	4	4	4	4

