

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Blood Biocher	mistry							
Course Code		TL306		Couse	Leve	el	Short Cycle (	Associate's D	egree)	
ECTS Credit	3	Workload	76 (Hours)	Theory		2	Practice	0	Laboratory	0
Objectives of	the Course	Whole blood, have knowled					od Biochemis	try-related Ge	eneral parameters	s and to
Course Conte	ent	Whole blood a Blood biocher								
Work Placeme	ent	N/A								
Planned Learn	ning Activities	and Teaching	Methods	Explan	ation	(Presentat	ion), Case Stu	udy, Individua	l Study	
Name of Lecti	urer(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

Week	<b>Weekly Detailed Cour</b>	se 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
			To	tal Workload (Hours)	76
		[	Total Workload (	Hours) / 25*] = <b>ECTS</b>	3
*25 hour workload is accepted as 1 ECTS					

## **Learning Outcomes**

The simplest level at the end of the course the students complete blood and blood biochemistry parameters must have basic knowledge about



Understand the basic principles of biochemistry, to recognize the remarkable points on taking the blood sample
May identfy laboratory safety and may apply laboratury safety rules
Hormones the definition, classification, metabolism and the relationship between laboratory tests and disease
Hemoglobin-Porpyrin the definition, metabolism and the relationship between laboratory tests and disease

## **Programme Outcomes** (Physiotherapy) To be able to recall the information of research methods and statistics so as to follow the developments, monitor and interpret scientific literature To have the appropriate knowledge of basic sciences at the level of interest, to use specific medical terms and terminology of 2 physical therapy To be able to recall knowledge of the general structure and proporties of musculoskeletal system and the joints and to 3 evaluate the story of musculoskeletal diseases. 4 To be able to comprehend the methods of measurement of the range of motion of joints and to measure it. 5 To be able implement a general evaluation of posture analysis and gait analysis. To be able to recall the knowledge about general characteristics of musculoskeletal diseases, osteoporosis, osteoarthritis, rheumatoid arthritis, ankylosing spondylitis, especially rheumatic diseases, mechanical low back and neck pain, disc 6 herniation, soft tissue disorders and to apply appropriate physiotherapy. To be able to recall the knowledge and gain skills about the devices and the agents of heater used in physical therapy, 7 indications and contraindications of using, and the necessary information about how to apply on patients. To be able to recall the knowledge of the electromagnetic field. 8 To be able to recall what Elektroakapunktur, Laser, Biofeedback, cervical and lumbar traction systems, pneumatic 9 compression therapy are, and how to apply them, which one is applicable to patients. 10 To be able to recall what manipulation-mobilization is and which patients are suitable for this application. To be able to recall what massage and hydrotherapy treatments are and which patients are suitable for these applications. 11 To be able to gain the professional and ethical awareness, apply gained knowledge and skills in reallife situations and transfer 12 gained knowlegde to individuals around her/his environment, and improve behavior of life-long learning. To gain knowledge about methods of diagnosis, protection and treatment of diseases 13 To be able to recall the knowledge and gain skills about physical therapy and rehabilitation methods to be applied to 14 neurological disorders. To be able to recall the knowledge and gain skills about physical therapy and rehabilitation methods to be applied to 15 cardiopulmonary disorders. To be able to recall the knowledge and gain skills about physical therapy and rehabilitation methods to be applied to pediatric 16 17 To be able to gain knowledge about the effects of fitness and exercise on metabolism and responses of body systems to them. To have knowledge about rehabilitation services 18 19 To become individuals who can do interdisciplinary team work, with a sense of social responsibility and entrepreneur. To be able to recall the knowledge about Ataturk's Principles and the History of Turkish Revolution. 20 To be able to gain the knowledge and ability to become contemporary individuals who can use Turkish language grammar well 21 and know a foreign language knowledge necessasary to follow the developments in the profession.

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	L1	L2	L3	L4	L4	L5
P17	2	2	2	2	2	2

