

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Clinical Bioch	emistry I								
Course Code	TL213		Couse Leve	el	Short Cycle (Associate's Degree)					
ECTS Credit 3	Workload	Workload 76 (Hours)		2	Practice	Practice 0		0		
Objectives of the Course	e Providing con	npetencies cond	cerning clini	ical biocher	mistry analysis	and tests				
Course Content	testsfordiseas for protein me forkidney fund specific tests	ses of carbohyd etabolism, Makii etion,Making tes	lrate metaboring tests for the g	olism,Makir liver function astrointesti	ng tests for dis on,Making test nal system fur	eases of lipions for heart functions, Maki	palance,Making d metabolism,Mak unction, Making te ing male urogenita king analysis of bo	sts alsystem-		
Work Placement	N/A									
Planned Learning Activi	ties and Teaching	Methods	Explanation	(Presenta	tion), Discussi	on, Individua	al Study			
Name of Lecturer(s)										

Prerequisites & Co-requisities

Co-requisitie TL215

Assessment Methods and Criteria										
Method		Quantity	Percentage (%)							
Midterm Examination		1	40							
Final Examination		1	70							

Recommended or Required Reading

Klinik Biyokimya, Bahattin Adam, Nobel Tıp Kitabevleri, 2000
Klinik Biyokimya Analiz Metodları, Bahattin Adam ve Yasemin Ardıçoğlu, Atlas Kitapçılık, 2002
Klinik Biyokimya Laboratuvarı El Kitabı, Idris Mehmetoğlu, Nobel Tıp Kitabevleri, 2007

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Making tests for water and electrolyte metabolism
2	Theoretical	Making tests foracid-base balance
3	Theoretical	Making tests for diseases of carbohydrate metabolism
4	Theoretical	Making tests for diseases of lipid metabolism
5	Theoretical	Making tests for protein metabolism
6	Theoretical	Making tests for liver function
7	Theoretical	Making tests for heart function
8	Intermediate Exam	Midterm exam
9	Theoretical	Making tests for kidney function
10	Theoretical	Making tests for the gastrointestinal system functions
11	Theoretical	Making tests related to bone metabolism
12	Theoretical	Making male urogenitalsystem-specific tests
13	Theoretical	Monitoring of therapeutic drug level
14	Theoretical	Determination of tumor markers
15	Theoretical	Making analysis of body fluids

Workload Calculation										
Activity	Quantity	Preparation	Duration	Total Workload						
Lecture - Theory	14	3	2	70						
Midterm Examination	1	2	1	3						



Final Examination	1		2	1	3				
			To	tal Workload (Hours)	76				
	[Total Workload (Hours) / 25*] = ECTS								
*25 hour workload is accepted as 1 ECTS									

Learn	ing Outcomes	
1	Making tests for water and electrolyte metabolism	
2	Making tests for acid-base balance	
3	Making tests for diseases of carbohydrate metabolism	1
4	Making tests for diseases of lipid metabolism	
5	Making tests for protein metabolism	
6	Making tests for liver function	
7	Making tests for heart function	
8	Making tests for kindey function	
9	Making tests for the gastrointestinal system functions	
10	Making tests related to bone metabolism	
11	Making male urogenitalsystem-specific tests	
12	Determination of tumor markers	
13	Making analysis of body fluids	

Programme Outcomes (Medical Laboratory Techniques)

- To be able to have sufficient back ground in medical laboratory techniques and medical laboratory branches (biochemistry, microbiology,parasitology,sitogenetiketc.);the ability to use theoretical and practical knowledge in these fields.
- To be able to have the basic theoretical and practical knowledgeand other resources have been supported applications and tools based on secondary-level qualifications gained in the field of Medical Laboratory Techniques Program to-date text boks containing formations
- To be able to have basic knowledge about structure and function of systems in human, to analyse these data on tissue, cell and diseases.
- To be able to analyse the medical samples necessary for physicians by using tools, equipment and techniques at the diagnostic and the rapeutic laboratories of health agencies and evaluate the data.
- To be able to use the medical laboratoy tools and equipments according to rules and technics, and make controls and maintenance of them
- To be able to perform basic tests of related different medical laboratories, prepare solutions.
- 7 To be able to perform proper sample collection and transport procedures for the medical laboratory tests from the patient.
- 8 To be able to perform preanalytical sample preparation procedure, prepare inspection preparations, perform disinfection and sterilization
- To be able to interpret and evaluate data, define and analyze problems, develop solutions based on research and proofs by using acquired basic knowledge and skills with in the field.
- 10 To be able to have knowledge about work organization and carry out related practice in medical laboratories
- 11 To be able to carry out laboratory safety protocols, take individual safety precaution and create safe laboratory environment.
- To be able to gain the ability to apply by viewing and evaluating the processes related to his/her fields in public and private sector.
- To be able to gain the awareness of the necessity of life long learning, ability to follow developments in science and technology and self-renewal.
- 14 To be able to help laboratory experts and medical scientists for their researches
- To be able to be aware of individual and public health, environmental protection and job security issues, under standing the basic level of the relationship.
- To be able to grasp principles of Atatürk and there volutions, to ensurenational, ethical, spiritual and cultural values, to adopt to universal and contemporary developments
- 17 To be able to communicate efficiently for medical service and speak Turkish efficiently.
- 18 To be able to communicate in English at basic level, utilize foreign language on occupational practice
- To have the appropriate knowledge of medical sciences at the level of interest, to use specific medical terms and terminology of field

Contri	ontribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2:Low, 3:Medium, 4:Hi												
	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13
P1	5	5	5	5	5	5	5	5	5	5	5	5	5



P2

P4	5	5	5	5	5	5	5	5	5	5	5	5	5
P5	5	5	5	5	5	5	5	5	5	5	5	5	5
P6	5	5	5	5	5	5	5	5	5	5	5	5	5
P7	5	5	5	5	5	5	5	5	5	5	5	5	5
P10	5	5	5	5	5	5	5	5	5	5	5	5	5
P12	5	5	5	5	5	5	5	5	5	5	5	5	5
P14	5	5	5	5	5	5	5	5	5	5	5	5	5

