

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Clinical Bioche	mistry Applic	ation I							
Course Code	TL215		Couse Leve	el	Short Cycle (A	ort Cycle (Associate's Degree)				
ECTS Credit 5	Workload	128 <i>(Hours)</i>	Theory	0	Practice	Laboratory	0			
Objectives of the Course	Providing comp	oetencies cor	ncerning clini	cal biocher	mistry analysis	and tests				
Course Content	testsfordisease for protein met forkidney funct specific tests	es of carbohy abolism, Mak ion,Making te	drate metaboring tests for the g	lectrolyte metabolism,Making tests foracid-base balance,Making drate metabolism,Making tests for diseases of lipid metabolism,Making tests ng tests for liver function,Making tests for heart function, Making tests sts for the gastrointestinal system functions, Making male urogenitalsystemmetabolism,Determination of tumor markers,Making analysis of body fluids						
Work Placement	N/A									
Planned Learning Activities and Teaching Methods Explanation (Presentation), Experiment, Demonstration, Discuss Individual Study								n,		
Name of Lecturer(s)										

Assessment Methods and Criteria										
Method	Quan	tity	Percentag	ge (%)						
Practice Examination		1		110						

Recon	Recommended or Required Reading									
1	Klinik Biyokimya, Bahattin Adam, Nobel Tıp Kitabevleri, 2000									
2	Klinik Biyokimya Analiz Metodları, Bahattin Adam ve Yasemin Ardıçoğlu, Atlas Kitapçılık, 2002									
3	Klinik Biyokimya Laboratuvarı El Kitabı, Idris Mehmetoğlu, Nobel Tıp Kitabevleri, 2007									

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

Workload Calculation							
Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Practice	14	5	4	126			
Practice Examination	1	1	1	2			
Total Workload (Hours)							
		[Total Workload (Hours) / 25*] = ECTS	5			
*25 hour workload is accepted as 1 ECTS							



Learn	ing Outcomes	
1	Making tests for water and electrolyte metabolism	
2	Making tests for acid-basebalance	
3	Making tests for diseases of carbohydrate metabolism	
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	Monitoring of therapeutic drug level	
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
- 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

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

	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	5	5	5	5	5	5	5	5	5	5	5	5	5
P3	5	5	5	5	5	5	5	5	5	5	5	5	5
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



P8	5	5	5	5	5	5	5	5	5	5	5	5	5
P9	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
P11	5	5	5	5	5	5	5	5	5	5	5	5	5
P12	3	3	3	3	3	3	3	3	3	3	3	3	3
P13	5	5	5	5	5	5	5	5	5	5	5	5	5
P14	3	3	3	3	3	3	3	3	3	3	3	3	3
P15	5	5	5	5	5	5	5	5	5	5	5	5	5

