

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	ation II							
Course Code	TL210		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 5	Workload	125 <i>(Hours)</i>	Theory	0	Practice	4	Laboratory	0
Objectives of the Course							flow and appropri rk and to get resu	
Course Content	preanalytical er methods), Urine Urine sediment automation, Tu	rors in lab., In a comment in lab., In a comment in a com	Blood countil n (manuel ar is (microscop nethods (coa C, vs.), Radi	ng (manuel nd automat bic examina gulation an bimmunass	methods), Blo ic methods) ur ition), Biochem alysis vs.), Nej	od counting (ine protein ar nical paramet ohelometric n	eir applications, (automatic analys of creatinine analysis with methods (Apo A ascence methods (lysis., and Apo B,
Work Placement	N/A							
Planned Learning Activities and Teaching Methods				on (Presentation), Experiment, Demonstration, Discussion, Case lividual Study			n, Case	
Name of Lecturer(s)								

Assessment Methods and Criteria							
Method	Quantity	tity Percentage (%)					
Practice Examination	1	100					

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	/eekly Detailed Course Contents				
1	Practice	Basic patient registration, sample collection				
2	Practice	Various sample collectionc and their applications, preanalytical errors in lab.				
3	Practice	Blood counting (manuel methods)				
4	Practice	Blood counting (automatic analysis methods)				
5	Practice	Urine examination (manuel and automatic methods) urine protein and creatinine analysis				
6	Practice	Urine sedimentation analysis (microskopic examination)				
7	Practice	Biochemical parameter analysis with automation 1				
8	Practice	Biochemical parameter analysis with automation 2				
9	Practice	Turbidimetric methods				
10	Practice	Nephelometric methods				
11	Practice	HPLC methods				
12	Practice	Radioimmunassay methods				
13	Practice	Chemiluminescence methods I (Hormone analysis)				
14	Practice	Chemiluminescence methods II (Therapeutic drog monitoring)				
15	Practice	Practice exam				

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Practice	14	2	4	84		
Individual Work	12	0	3	36		
Practice Examination	1	1	4	5		
	125					
	5					
*25 hour workload is accepted as 1 ECTS						



Learning Outcomes 1 Biochemistry Laboratory has extensive experience of working 2 Have the knowledge about to clinical laboratory operations, laboratory safety and practices 3 Acquires theoretical knowledge and practical skills related to laboratory instruments, equipment, and use of them. 4 Have the knowledge and skills to accept or reject the samples to the laboratory, handling, transmitting, storing of them.

Programme Outcomes (Medical Laboratory Techniques)

Have the knowledge and skills in routine biochemical analysis.

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- 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
- 6 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
P1	5	5	5	5	5
P2	5	5	5	5	5
P3	5	5	5	5	5
P4	5	5	5	5	5
P5	5	5	5	5	5
P6	5	5	5	5	5
P7	5	5	5	5	5
P8	5	5	5	5	5
P9	5	5	5	5	5
P10	5	5	5	5	5
P11	5	5	5	5	5
P12	3	3	3	3	3
P13	5	5	5	5	5
P14	5	5	5	5	5
P15	5	5	5	5	5

