

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Toxicology, Laboratory Methods of Analysis								
Course Code	TL302		Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit 3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0	
Objectives of the Course The aim is to educate participants with having the knowledge on the basic principles in toxicological analysis, methods and applications, interpretation of data. Its aimed to provide information about toxicity also the causes, diagnosis and treatment of toxication									
Course Content Isolation of xenobiotics from various matrixes, qualitative and quantitative methods, optimization and validation of methods, evaluation of data, systematic toxicological analysis, quick systematic toxicological analysis in acute intoxications; define possible risks in laboratory and provide laboratory security.						kicological			
Work Placement	N/A								
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	tion), Discussion	on, Case St	udy, Individual Stu	dy	
Name of Lecturer(s)									

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

Recommended or Required Reading

1 Toksikoloji ,Prof.Dr.Nevin VURAL,Ankara Universitesi Eczacilik Fakültesi Yayınları No: 73, 2005

Week	Weekly Detailed Course Contents						
1	Theoretical	Introduction to toxicology					
2	Theoretical	Toxicological analysis methods					
3	Theoretical	Isolation of toxicological analysis material from the samples.					
4	Theoretical	Qualitative and quantitative methods used in toxicological analysis					
5	Theoretical	Chromatographic methods and analysis of doping					
6	Theoretical	Organophosphorus compounds poisoning and analysis methods					
7	Theoretical	Anticoagulant rodenticides poisoning and analysis methods					
8	Intermediate Exam	Mid-term exam					
9	Theoretical	Mycotoxicosis and analysis methods					
10	Theoretical	Arsenic poisoning and analysis methods					
11	Theoretical	Quick systematic toxicological analysis in acute intoxications					
12	Theoretical	Possible risks in laboratory and laboratory security					
13	Theoretical	Evaluation of data					
14	Theoretical	Evaluation of data					
15	Final Exam	Final exam					

Workload Calculation						
Activity	Quantity	Preparation		Duration	Total Workload	
Lecture - Theory	14		2	2	56	
Assignment	14		0	1	14	
Midterm Examination	1		1	2	3	
Final Examination	1		0	2	2	
	75					
	3					
*25 hour workload is accepted as 1 ECTS						

- 1 1.He/She knows principles of sample selection, collection, transport and storage.
- 2 2.He/She knows isolation of toxicological analysis material from the samples.



- 3 3.He/She knows principles of qualitative and quantitative methods used in toxicological analysis.
- 4 4.He/She knows and applies principles of quick systematic toxicological analysis in acute intoxications.

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
- 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
P9	5	5	5	5	5
P10	5	5	5	5	5
P11	5	5	5	5	5

