



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Toxicology							
Course Code		TL301		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Toxin, toxicity, Majorclasses of environmental contaminants. Uptake, biotransformation, detoxification, elimination and accumulation of toxicants. To give the necessary information on hygiene and working environment							
Course Content		Toxic substances in the body in, distribution, biotransformation and excretion, effect of poisonsshapes, lead, mercury, arsenic, antimony, cadmium, barium, etc.,and metal salts, carbonmonoxide, hidrojen siyanür, sulfurhydrogen, phosgenegases, etc., hydrocarbons, halogenatedaliphatichydrocarbons, aromatic hydrocarbons , aliphatic aromatic amines, alcohols, esters, aminesandorganicsulfurcompounds, toxicity, effecttypes, and hygienic conditions.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
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 Üniversitesi Eczacılık Fakültesi Yayınları No: 73, 2005
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Week	Weekly Detailed Course Contents	
1	Theoretical	Definition and History of toxicology, toxicology, General Concepts, Place of Toxicology in Environmental Engineering
2	Theoretical	Classification of toxic substances according to Chemical Structure
3	Theoretical	The ROUTE of toxic substances to live organisms
4	Theoretical	Assesment of toxic impact
5	Theoretical	Mutagen and Teratogen substances, chemical karsinogens
6	Theoretical	Chemical substances in the surrounding abiotic and contaminants
7	Theoretical	Effect of metal contaminants
8	Intermediate Exam	Mid-term exam
9	Theoretical	Gas and particulate contaminants in air
10	Theoretical	The toxic effect of organic solvents
11	Theoretical	Pesticides and soil pollutants
12	Theoretical	Behavior of Pesticides in the surrounding of Biotic and abiotic
13	Theoretical	Radiation and Toxicology of radioactive isotopes
14	Theoretical	Important toxic substances in used industry
15	Theoretical	General repeat

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	14	0	3	42
Midterm Examination	1	1	2	3
Final Examination	1	0	2	2
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS



Learning Outcomes

1	1. Define Venom and poison, the active ingredient and the sources of lead poisoning, diagnostic and the therapeutic approaches.
2	2. Define toxic substances to explain the issue of ways to access the live organism
3	3. Define Toxic mode of action
4	4. Recognize the effects of metallic pollutants.
5	Recognize the effects of gas pollutants in the air.
6	Recognize the effects of dust in the air pollutants
7	Recognize the toxic effects of organic solvents.
8	List important issues of toxic substances used in industry reviews.

Programme Outcomes (Anesthesia)

1	To be able to recall basic knowledge about human anatomy
2	To be able to recall the knowledge about Atatürk's principles and the history of Turkish Revolution
3	To be able to recall the knowledge about ethical and moral values
4	To be able to recall the knowledge of Turkish grammar and be able to use it
5	To be able to communicate effectively with patient, their family, and own team
6	To be able to control, use, and maintain the anesthesia machines
7	To be able to recall the information about anesthesia application in the system diseases
8	To be able to recall the issues that needed to be considered in follow-up of patients in intensive care.
9	To be able to make the patients' care in intensive care
10	To be able to apply the cardiopulmonary resuscitation.
11	To be able to apply the drug, liquid and blood to the patient.
12	To be able to apply nasogastric tube to the patient and to aspirate.
13	To be able to assist the implementation of general anesthesia to patient.
14	To be able to recall the drugs used in general and regional anesthesia and learn to use them safely.
15	PO15. Can help during the maintenance, ending and post anaesthesia process.
16	Can help the practices of anesthesia and sedation outside the operation room.
17	Can communicate at the basic level of a foreign language and use this language in his job.
18	Be able to communicate at a basic level in a foreign language and be able to use this language in professional fields
19	To have the appropriate knowledge of basic 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
P11	3	3	3	3	3	3	3	3

