

**Vocational School / Emergency and Medical Aid**  
**2024 - 2025 Academic Year**  
**BASIC TOXICOLOGY**  
**Syllabus**

<b>Course Description</b>					
<b>Name</b>	<b>Code</b>	<b>Semester</b>	<b>T+A Hour</b>	<b>Credit</b>	<b>ECTS</b>
BASIC TOXICOLOGY	İAY1164800	Fall Semester	2+0	2	4
<b>Prerequisites Courses</b>					
<b>Recommended Elective Courses</b>					
<b>Language of Instruction</b>	Turkish				
<b>Course Level</b>	Short Cycle (Associate's Degree)				
<b>Course Type</b>	Required				
<b>Course Coordinator</b>	Prof.Dr. Bedia GÜLEN				
<b>Name of Lecturer(s)</b>	Lect. Dürdane Şule TOZAR				
<b>Assistant(s)</b>					
<b>Aim</b>	To provide information about the toxicology and related concepts, entry ways into the body of poisons and toxicological effects of certain chemicals.				
<b>Course Content</b>	This course contains; Introduction to toxicology (definition, history, classification), The basic concepts, Mutagenic effects, carcinogenic effects, teratogenic effects, allergy, Categorization of exposure to toxic substances, The routes of chemicals in the body, Exposure to chemicals in the workplace-I, Exposure to chemicals in the workplace-II, Exposure to chemicals in the workplace-III, Exposure to chemicals in the workplace-IV, Exposure to chemicals in the workplace-V, War poisons-I, War poisons-II, Approach in cases of poisoning-I, Approach in cases of poisoning-II.				
<b>Course Learning Outcomes</b>			<b>Teaching Methods</b>	<b>Assessment Methods</b>	
1. explain the concepts in toxicology.			10, 16, 9	A	
1.1. defines toxicology and certain concepts of toxicology.			10, 16, 9	A	
1.2. defines the sub-branches of toxicology.			10, 16, 9	A	
1.3. lists the toxic effects.			10, 16, 9	A	
2. explain the events of toxicity that may occur in the workplace.			10, 12, 16, 9	A	
2.1. defines the industrial toxicology.			10, 16, 9	A	
2.2. summarizes exposure to toxic substances in the workplace.			10, 12, 16, 9	A	
2.3. summarizes the concepts related to exposure levels of toxic substances in the workplace.			12, 16, 9	A	
3. explain the effects of toxic substances on the various organs and systems.			10, 16, 9	A	
3.1. lists acute and chronic toxicity.			12, 16, 9	A	
3.2. summarizes the access roads to the body of toxic substances.			16, 9	A	
3.3. summarizes the toxic substances to be exposed frequently.			16, 9	A	
<b>Teaching Methods</b>	10: Discussion Method, 12: Problem Solving Method, 16: Question - Answer Technique, 9: Lecture Method				
<b>Assessment Methods</b>	A: Traditional Written Exam				
<b>Lecture Schedule</b>					
<b>Sequence</b>	<b>Topics</b>	<b>Preliminary Preparation</b>			
1	Introduction to toxicology (definition, history, classification).				
2	The basic concepts.				
3	Mutagenic effects, carcinogenic effects, teratogenic effects, allergy.				
4	Categorization of exposure to toxic substances.				
5	The routes of chemicals in the body.				
6	Exposure to chemicals in the workplace-I.				
7	Exposure to chemicals in the workplace-II.				
8	Exposure to chemicals in the workplace-III.				
9	Exposure to chemicals in the workplace-IV.				
10	Exposure to chemicals in the workplace-V.				
11	War poisons-I.				
12	War poisons-II.				
13	Approach in cases of poisoning-I.				
14	Approach in cases of poisoning-II.				
<b>Evaluation Methods</b>		<b>Weight(%)</b>			
Midterm Exam		40			
General Exam		60			

<b>Resources</b>
Toxicology notes will be given to the students. Toksikoloji, Nevin Vural. Zehirlenmeler, Selim Kurtoğlu. Goldfrank's Toxicologic Emergencies, L.R. Goldfrank, N.E. Flomenbaum, N.E. Lewin, R.S. Weisman, M.A. Howland, R.S. Hoffman.