Course Syllabus

Code - Course Title	**FTK504 - Environmental Toxicology and Pesticides**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ ABDULLAH BURAK KARADUMAN

Mode of Delivery	Face to face
Place of Delivery	On Campus
Used Educational Platforms	Face-to-face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	No recommended courses are available.
Recommended Resources	Varcan, N. (1995). Environmental Health. Eskişehir: Anadolu University Publications No: 723Hayes' Handbook of Pesticide Toxicology. (2010). Elsevier. https://doi.org/10.1016/c2009-1-03818-0Environmental Toxicology of Pesticides. (1972). Elsevier. https://doi.org/10.1016/c2012-0-01599-2
Work Placement	Not Applicable
Aims of the Course	The aim of this course is to equip students with the knowledge and skills needed to evaluate the effects of environmental pollutants and pesticides on human health from a toxicological perspective. The course covers the health significance of air, water and soil pollution, as well as the toxic effects of insecticides, herbicides, fungicides, fumigants and insect repellents. It aims to develop students' ability to critically examine and discuss the relationships between environmental exposures and health effects using scientific knowledge.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1	**LO-1**	The importance of environmental toxicology.	Lecture, Question & Answer, Discussion
Week - 2	**LO-2**	Air pollution.	Lecture, Question & Answer, Discussion
Week - 3	**LO-3**	Water and soil pollution.	Lecture, Question & Answer, Discussion
Week - 4	**LO-4**	Pesticides.	Lecture, Question & Answer, Discussion
Week - 5	**LO-5**	Insecticides.	Lecture, Question & Answer, Discussion
Week - 6	**LO-5**	Insecticides.	Lecture, Question & Answer, Discussion

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 7	LO-6	Herbicides.	Lecture, Question & Answer, Discussion
Week - 8	LO-4	Rodenticides.	Lecture, Question & Answer, Discussion
Week - 9	LO-7	Fungicides	Lecture, Question & Answer, Discussion
Week - 10	LO-8	Fumigants and insect repellents	Lecture, Question & Answer, Discussion
Week - 11	LO-9	Natural toxic substances found in the environment	Lecture, Question & Answer, Discussion
Week - 12	LO-9	Plant-derived toxins	Lecture, Question & Answer, Discussion
Week - 13	LO-9	Plant-derived poisons	Lecture, Question & Answer, Discussion
Week - 14	LO-9	Animal-derived toxins	Lecture, Question & Answer, Discussion

Learning Outcomes

#	Learning Outcome
1	Students will be able to discuss the importance of environmental toxicology in terms of health.
2	Students will be able to evaluate the toxicological significance of air pollution.
3	Students will be able to evaluate the toxicological significance of soil and water pollution.
4	Students will be able to evaluate the significance of pesticides in terms of health.
5	Students will be able to evaluate the health implications of insecticides.
6	Students will be able to evaluate the health implications of herbicides.
7	Students will be able to evaluate the health implications of fungicides.
8	Students will be able to evaluate the health implications of fumigants and insect repellents.
9	The student will be able to evaluate the effects of naturally occurring plant- and animal-derived toxic substances in the environment on human health from a toxicological perspective.

Sustainable Development Goals

✓ Health and Quality of Life ✓ Quality Education

Course Theme

✓ Health Sciences and Medical Technologies ✓ Sustainability and Green Energy ✓ Agriculture, Food and Livestock

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	3.00	14	42
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	3.00	14	42
Ödevler	6.00	2	12
Proje - Rapor - Sunum Hazırlama	18.00	1	18
Ara Sınav Hazırlığı (sınav süresi dahil)	16.00	1	16
Final Sınavı Hazırlığı (sınav süresi dahil)	20.00	1	20
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0.00	0	0
Staj Uygulaması	0.00	0	0
		Calculated ECTS	**6.0**

Assessment Method and Passing Requirements

✓ Open-Ended Test ✓ Homework ✓ Presentation