Course Syllabus

Code - Course Title	**FTK503 - Industrial Toxicology**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. ÖZLEM ATLI EKLİOĞLU

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	none
Recommended Resources	Temel kaynaklar- Klaassen, C. D. (Ed.). (2019). Casarett & Doull's Toxicology: The Basic Science of Poisons (9th ed.). McGraw-Hill Education. McGraw Hill Medical- Paustenbach, D. J., Farland, W. H., Klaunig, J., Levy, L., & Greim, H. (Eds.). (2024). Patty's Toxicology (7th ed., Vols. 1–6). John Wiley & Sons. Patty's ToxicologyYardımcı ve güncel kaynaklar- National Institute for Occupational Safety and Health. NIOSH Pocket Guide to Chemical Hazards. Centers for Disease Control and Prevention. CDC- Occupational Safety and Health Administration. OSHA Occupational Chemical Database. Occupational Safety and Health Administration- American Conference of Governmental Industrial Hygienists. (2026). TLVs and BEIs: Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices. ACGIH. store.accuristech.com- International Labour Organization. Encyclopaedia of Occupational Health and Safety. ILO.- Güncel bilimsel makaleler ile ulusal ve uluslararası mesleki sağlık ve güvenlik mevzuatı.
Work Placement	Not Applicable
Aims of the Course	EnglishThe aim of this course is to provide students with knowledge of the toxic effects of chemical, physical, and biological agents encountered in industrial settings, including occupational exposure routes, dose–response relationships, target-organ toxicities, and mechanisms of toxicity. The course also aims to enable students to interpret occupational exposure limits and biological monitoring data, assess industrial risks, and understand control and prevention strategies for protecting workers' health.

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Industrial toxic substances.	
Week - 2		Airborn poisons.	
Week - 3		İmportant toxic gases.	
Week - 4		Compound of chemical weapon.	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 5		Toxic particules.	
Week - 6		Toxic particules.	
Week - 7		Organic solvents.	
Week - 8		Metalic poisons.	
Week - 9		Radiation and radioactive isotopes.	
Week - 10		Akute intoxications with industrial substances.	
Week - 11		The role of the toxicologist in occupational health care.	
Week - 12		The role of the toxicologist in occupational health care.	
Week - 13		Risks and risk factors.	
Week - 14		Factors affecting toxicity.	

Learning Outcomes

#	Learning Outcome
1	define industrial toxic substances.

Sustainable Development Goals

✓ Health and Quality of Life

Course Theme

✓ Health Sciences and Medical Technologies

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Teorik Derse Katılım	0	0	0
Sınıf Dışı Çalışma (Ön Hazırlık & Pekiştirme Amaçlı)	0	0	0
Ödevler	0	0	0
Proje - Rapor - Sunum Hazırlama	0	0	0
Ara Sınav Hazırlığı (sınav süresi dahil)	0	0	0
Final Sınavı Hazırlığı (sınav süresi dahil)	0	0	0

AKTS Workload

Activity	Duration (Hour)	Count	Workload
Uygulama (Laboratuvar, Müzik/Enstrüman Uygulaması, Atölye/Saha Çalışması vb.)	0	0	0
Staj Uygulaması	0	0	0
		Calculated ECTS	**0**

Assessment Method and Passing Requirements

✓ Open-Ended Test ✓ Oral Examination ✓ Homework ✓ Presentation