Course Syllabus

Code - Course Title	**FKL624 - Digital Applications in Pharmacology**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. SÜLEYMAN AYDIN

Mode of Delivery	interactive
Courses Recomended	\\\"Experimental Pharmacology 1\\\" is recommended prior to this course.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction	
Week - 2		Importance of recording in pharmacological experiments	
Week - 3		Recording methods in in vivo experiments: Observations	
Week - 4		Recording methods in in vivo experiments: Computerized systems	
Week - 5		Recording methods in in vitro experiments: single machine recordings	
Week - 6		Recording methods in in vitro experiments: combinations and databases	
Week - 7		Data acquisition and storing	
Week - 8		Data munging: Open source, introduction to 'bash'	
Week - 9		Data munging: sorting, transposing, piping	
Week - 10		Data recording and algorithms	
Week - 11		Editors, data types, plain text, csv	
Week - 12		Graphical editing, programming using R	
Week - 13		Graphical editing, programming using Python	
Week - 14		Applications	

Learning Outcomes

#	Learning Outcome
1	1. Will be able to Define ethical issues and information resources. 1.1. Describe ethical issues. 1.2. Express information resources. 1.3 Use information sources. 2. Will be able to Explain the importance of experimental animals in drug research. 2.1 Explain physiological properties of experimental animals. 2.2 Compare relationships between organ and systems. 2.3 Discuss in vivo actions of drugs. 3. Will be able to Explain the role and importance of in vitro experimental studies in drug research. 3.1 Describe the role of in vitro methods in drug research. 3.2 Discuss the role of isolated systems in drug research 3.3 Evaluate the role of molecular information on in vivo drug actions.

Sustainable Development Goals

No content has been provided.

Course Theme

No content has been provided.

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
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

No content has been provided.