Course Syllabus

Code - Course Title	**KİM626 - Physicochemical Experiments**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. DİLEK AK

Mode of Delivery	face to face
Prerequisites	There is no prerequisites and co-requisites for this course.
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to the physicochemical methods	
Week - 2		Explanation of laboratory techniques	
Week - 3		Potentiometry and glass pH electrode	
Week - 4		Optical methods and related assignments in chemistry	
Week - 5		Optical methods and related assignments in chemistry	
Week - 6		Optical methods and related assignments in chemistry	
Week - 7		General properties of liquids: Density, viscosity, surface tension, vapor pressure	
Week - 8		Determination of molecular weights	
Week - 9		Methods of titrations	
Week - 10		Chemical reactions and kinetics	
Week - 11		Equilibrium and Dissosiation constants	
Week - 12		Equilibrium and Dissosiation constants	
Week - 13		Chromatography	
Week - 14		Elecrophoresis	

Learning Outcomes

#	Learning Outcome
1	Evaluate the working techniques in laboratory
2	evaluate the electrochemical methods and related determinations.
3	evaluate the optical methods and related determinations.
4	explain general properties of liquids.
5	evaluate the methods about determination of molecular weight.
6	debate titration methods.
7	debate chemical reactions and kinetics.
8	discuss chromatography and electrophoresis.

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.