Course Syllabus

Code - Course Title	**KİM144 - Basic Chemistry II**
Course Type	II. SEMESTER
Laboratory + Practice	2+2
ECTS	**4.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ SİBEL BÜYÜKTİRYAKİ

Mode of Delivery	This course will only face-to-face training.
Recommended Resources	Genel kimya 1,2 Petrucci, Harwood Palme yayınevi, Genel Kimya Raymond Chang, Palme yayınevi.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Chemical kinetics and experiment.	
Week - 2		Principles and experiment of chemical equilibrium.	
Week - 3		Acids and bases and titration experiment.	
Week - 4		Acid-base equilibria and titration experiment.	
Week - 5		Solubility and complex ion equilibria and precipitation test.	
Week - 6		Entropy and free energy and experiment.	
Week - 7		Electrochemistry and battery experiment.	
Week - 8		Metals and experiment to find the density of metals.	
Week - 9		Nonmetals; transition elements and application experiment.	
Week - 10		Complex ions and coordination compounds and complex synthesis experiment I.	
Week - 11		Complex ions and coordination compounds and complex synthesis experiment II.	
Week - 12		Organic chemistry and organic matter identification experiment I.	
Week - 13		Organic chemistry and organic matter identification experiment II.	
Week - 14		Core chemistry.	

Learning Outcomes

#	Learning Outcome

Learning Outcomes

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1	To be able to comprehend chemical kinetics, reaction rate with experimental support.
2	To be able to comprehend chemical equilibrium reactions with experimental support.
3	To be able to recognize and titrate acid bases.
4	To be able to comprehend chemical precipitation reactions with experimental support.
5	To be able to recognize electrochemical reactions and to recognize organic compounds, complex compounds, metals and nonmetals by experimenting.

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.