Course Syllabus

Code - Course Title	**KİM673 - Advanced Electroanalytical Chemistry I**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. GÖKSEL ARLİ

Mode of Delivery	face to face lecture
Prerequisites	there is no prerequisites
Courses Recomended	there is no recommended optional programme component
Recommended Resources	Scholz F (ed) (2010) Electrochemical methods, guide to experiments and applications, Springer, Berlin, GermanyBard AJ, Faulkner LR (2001) Electrochemical methods, Fundamentals and applications, 2nd edn., Wiley, New York, USA
Work Placement	there is no work Placement

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to Electroanalytical Chemistry	
Week - 2		Voltammetric Techniques and Polarography	
Week - 3		Introduction to Polarography and Polarography Instrumentation	
Week - 4		exam	
Week - 5		Polarographic Currents	
Week - 6		Polarographic Currents	
Week - 7		Electrodes Used in Polarography	
Week - 8		Dropping Mercury Electrode	
Week - 9		Variations of the Polarographic Methods	
Week - 10		Linear Sweep Voltammetry	
Week - 11		Pulse Polarography	
Week - 12		Pulse Polarography	
Week - 13		Stripping Techniques	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		final exam	

Learning Outcomes

#	Learning Outcome
1	After the end of this course, the student will be able to; explain the fundamentals of polarography • define the place of polarography in electroanalytical chemistry • recognize the polarogram • define the main items on the polarograms • explain the Ilkovich equation • explain the currents in polarography distinguish the polarography apparatus and operation principles • demonstrate the parts of the polarography apparatus • categorize the electrodes used in polarography and their functions • debate the properties, advantages and operation of dropping mercury electrode • debate the properties of polarographic methods

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.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
1.Midterm Exam	1	40
Final Exam	1	60
	Sum (%)	**100**