Course Syllabus

Code - Course Title	**KİM674 - Advanced Electroanalytical Chemistry II**
Course Type	II. 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, USACompton RG (2011) Understanding voltametry, Imperial College Press, UK
Work Placement	there is no work placement

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to voltammetry	
Week - 2		Potentials in voltammetry	
Week - 3		Voltammetry instrumentation	
Week - 4		Microelectrodes	
Week - 5		Voltammograms	
Week - 6		Voltammograms	
Week - 7		Hydrodynamic voltammetry	
Week - 8		Voltammetric currents	
Week - 9		Stripping voltammetry	
Week - 10		Applications of Voltammetry	
Week - 11		Analytical Advantages of Voltammetry	
Week - 12		Voltammetry in Pharmacy	
Week - 13		Voltammetry in Pharmacy	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Voltammetric Analysis of Inorganic Species	

Learning Outcomes

#	Learning Outcome
1	After the end of this course, the student will be able to; debate the fundamentals and theory of voltammetry explain the stimulation potentials in voltammetry explain the voltammetric currents demonstrate the parts of voltammetry apparatus recognize the microelectrodes define the main items on the voltammograms debate the operation principles and analytical superiorities of voltammetry list the main steps of voltammetry experiment explain the hydrodynamic voltammetry and stripping voltammetry debate the superiorities and poor sides of the voltammetry prior to other analytical methods illustrate the applications of voltammetry applications interpret the application spectrum of voltammetry illustrate the voltammetry applications in pharmacy field illustrate the applications of voltammetry to inorganic analyses

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.