Course Syllabus

Code - Course Title	**KİM438 - Analysis Technics of Liquid Chromatography**
Course Type	VII. SEMESTER
Laboratory + Practice	1+2
ECTS	**3.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DOÇ. DR. AYÇA ÖZCAN

Mode of Delivery	The mode of delivery of this course is Face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	There is no recommended optional programme component for this course.
Recommended Resources	-
Work Placement	Include laboratory applications

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Fundamental principles of chromatography, ıntroduction to liquid chromatography (LC)	
Week - 2		HPLC instrument, development of procedure and analysis methods	
Week - 3		Ion chromatography	
Week - 4		Uric acid determination in urine by HPLC	
Week - 5		Water analysis by ion chromatography	
Week - 6		Personal analysis	
Week - 7		Personal analysis with HPLC	
Week - 8		Personal analysis with HPLC	
Week - 9		Personal analysis with HPLC	
Week - 10		Personal Analysis	
Week - 11		Personal analysis with HPLC	
Week - 12		Personal analysis with HPLC	
Week - 13		Demonstrations of NanoLC, FPLC and CEC instruments	
Week - 14		Presentation of reports and homeworks	

Learning Outcomes

#	Learning Outcome
1	express the basic principles of liquid chromatography.
2	categorize the types, basic components and properties of liquid chromatography.
3	use a variety of liquid chromatography systems, decide the most appropriate choice for an analysis.

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	20
Final Exam	1	40
	Sum (%)	**60**