Course Syllabus

Code - Course Title	**KİM663 - Bioanalytical Sample Preparation Techniques**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. DUYGU YENİCELİ

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.
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		The importance of bioanalytical sample preparation stage	
Week - 2		Essential concepts for sample preparation	
Week - 3		The classification of bioanalytical sample preparation techniques	
Week - 4		Protein Precipitation	
Week - 5		Dilution followed by injection and filtration	
Week - 6		Liquid-liquid extraction	
Week - 7		The applications of liquid-liquid extraction	
Week - 8		Solid-phase extraction	
Week - 9		The applications of solid-phase extraction	
Week - 10		The use of liquid chromatography for sample preparation purpose	
Week - 11		Monolithic Columns	
Week - 12		The combinations of bioanalytical sample preparation techniques	

Learning Outcomes

#	Learning Outcome
1	explain the importance of bioanalytical sample preparation stage

Learning Outcomes

#	Learning Outcome
2	classify the bioanalytical sample preparation techniques
3	evaluate protein precipitation technique
4	evaluate the liquid-liquid extraction technique
5	evaluate the solid-phase extraction technique

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.