Course Syllabus

Code - Course Title	**FKG536 - The High Perfor. Liquid Chro. (HPLC) App. of Her. Drugs**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. NİLGÜN ÖZTÜRK

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	R.W. Frei and K. Zech. Selective sample handling and detection in high-performance liquid chromatography. Part A / Amsterdam ; New York : Elsevier, 1987.R.W. Frei and K. Zech. Selective sample handling and detection in high-performance liquid chromatography. Part B / Amsterdam ; New York : Elsevier, 1989.S. Ahunja, H. Rassmunsen (2007) HPLC Method Development for Pharmaceuticals. Academic Pr, 2007. *European Pharmacopoeia (EP), 5th Edition, Council of Europe, 67075 Strasbourg Cedex, France, 2005.
Work Placement	-

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Definition of High Performance Liquid Chromatography (HPLC)	
Week - 2		Its mechanisms, Stationary and mobile phases, Pump and detectors;	
Week - 3		HPLC Pumps	
Week - 4		Dedectors of the HPLC	
Week - 5		Sample HPLC Preparation from Plants;	
Week - 6		Role of HPLC Methods in Herbal Drug Analysis	
Week - 7		Midterm exam	
Week - 8		Role of HPLC Methods in Nutraceutics and Functional Foods Analysis	
Week - 9		Use of HPLC in the Analysis of Primary Metabolites (Carbohydrates, Lipids, Amino acids, Proteins)	
Week - 10		Sekonder Metabolitlerin (Polifenolik maddeler, İzoprenoitler, Alkaloitler) YBSK Analizleri	
Week - 11		Quantitative Analysis-Quality Control Methods with HPLC	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 12		Quantitative Analysis-Quality Control Methods with HPLC	
Week - 13		HPLC analysis in Pharmacopeia	
Week - 14		HPLC analysis in Pharmacopeia	

Learning Outcomes

#	Learning Outcome
1	Understands the theory of High Pressure Liquid Chromatography
2	HPLC pumps
3	Evaluates the YBSK chromatograms.
4	distinguish secondary metabolites with HPLC

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.