Course Syllabus

Code - Course Title	**FKM533 - Chemical Sepa. and Purifica. Methods in Drug Synthesis**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. AHMET ÇAĞRI KARABURUN

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	Bing Yan, Analysis and Purification Methods in Combinatorial Chemistry, John Wiley & Sons Inc., New Jersey (2004), Ender Erdik Nadire Yüksekisik Metin Obalı Atilla Öktemer Tarik Pekel , Denel Organik Kimya, Gazi Kitabevi, Ankara (2011).
Work Placement	Not Applicable

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Distillation techniques	
Week - 2		Simple distillation, vacuum distillation	
Week - 3		Steam distillation, azeotropic distillation and sublimation	
Week - 4		Extraction and separation of solvents	
Week - 5		Crystallization techniques, solvent selection	
Week - 6		Crystallization techniques, binary and ternary solvent mixtures	
Week - 7		Drying techniques and removing the solvents	
Week - 8		Introduction to chromatographic methods	
Week - 9		Separation and purification by thin layer chromatography	
Week - 10		Separation and purification by colon chromatography	
Week - 11		Separation and purification by flash chromatography	
Week - 12		Separation and purification by preparative HPLC	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 13		Resolution of rasemic mixtures	
Week - 14		Storage of synthesis products	

Learning Outcomes

#	Learning Outcome
1	categorize the separation and purification techniques
2	explain the importance of chromatografic separation and purification 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.