Course Syllabus

Code - Course Title	**FKG504 - Distillation Techniques used for Natural Materials**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. TEMEL ÖZEK

Mode of Delivery	face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Recommended Resources	- Johann G. Stichlmair, James R. Fair, Distillation: Principles and Practices, Wiley-VCH, NY, 1998.
Work Placement	Not applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		- Definition and history of distillation - Phase equilibriums - Distillatio phase equilibrium curves	
Week - 2		- Liquid-Vapour equilibrium - Related laws and relations between these laws	
Week - 3		- State of matter - Changes in physical conditions - Pressure-boiling relations	
Week - 4		- Heating sources and their applications	
Week - 5		- Cooling systems and their applications	
Week - 6		- Cooling systems and their applications	
Week - 7		- Basic distillation - Basic principles of distillation systems - Important points before and during the distillation process.	
Week - 8		- Fractional distillation - Spinning band distillation system	
Week - 9		- Vacuum distillation and its applications	
Week - 10		- Steam distillation and its applications	
Week - 11		- Steam distillation and its applications	
Week - 12		- Azeotropic distillation - Reactive distillation - Osmotic distillation	
Week - 13		- Molecular distillation - Flash distillation	
Week - 14		- Micro distillation - Dry distillation	

Learning Outcomes

#	Learning Outcome
1	categorize the distillation techniques used for plant materials.
2	interpret the relations between distillation techniques.
3	relate the phase equations with a distillation process.
4	will illustrate the different distillation techniques upplied for plant materials.

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.