Course Syllabus

Code - Course Title	**FKM545 - Drug Synthesis Practices**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. ULVİYE ACAR ÇEVİK

Mode of Delivery	Face to face learning
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	Denel Organik Kimya, Ender Erdik, Nadire Yüksekisik, Metin Obalı, Atilla Öktemer, Tarik Pekel, ISBN: 9789756009932.Vogel\'s Textbook of Practical Organic Chemistry, A.I. Vogel, A.R. Tatchell, B.S. Furnis, A.J. Hannaford, P.W.G. Smith ISBN-13: 978-0582462366, ISBN-10: 0582462363
Work Placement	Work Placement is not applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Substitution and addition reactions	
Week - 2		Elimination and conversion reactions	
Week - 3		Oxidoreduction reactions	
Week - 4		Cyclization reactions	
Week - 5		Determination of reaction conditions	
Week - 6		Design of reaction apparatus	
Week - 7		Chromatographic monitoring of reactions	
Week - 8		Spectroscopic monitoring of reactions	
Week - 9		Selection of starting materials	
Week - 10		Catalyst selection	
Week - 11		Precipitation	
Week - 12		Organic salt formation	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 13		Separation and purification	
Week - 14		Crystallization	

Learning Outcomes

#	Learning Outcome
1	Will be able to classify organic reactions used in the synthesis of drug molecules.
2	Will be able to determine the application strategies of drug molecule synthesis reactions.
3	Will be able to determine the appropriate method for monitoring synthesis reactions.
4	Will be able to isolate the synthesis product from the reaction medium.

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	40
Final Exam	1	60
	Sum (%)	**100**