Course Syllabus

Code - Course Title	**FKM633 - The Mechanisms of Drug Synthesis**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Required 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 optional programme component
Recommended Resources	Reaksion Mekanizmaları, Prof. Dr. Metin Balcı, Türkiye Bilimler Akademisi, Ankara 2008.Workbook for Organic Synthesis The Disconnection Approach, Second Edition, Stuart Warree, Paul Wyatt, Wiley, 2009.
Work Placement	There is no internship or practice

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		bond formation concepts.	
Week - 2		bond disconnection concepts	
Week - 3		disconnecting sites	
Week - 4		synthetic mechanisms of aliphatic molecules	
Week - 5		synthetic mechanisms of alicyclic molecules	
Week - 6		synthetic mechanisms of aromatic molecules	
Week - 7		synthetic mechanisms of heterocyclic molecules.	
Week - 8		synthetic mechanisms of drug molecules	
Week - 9		stereochemical properties of drug	
Week - 10		conformation of drug molecule	
Week - 11		configuration of drug molecule.	
Week - 12		mechanisms of racemates	
Week - 13		stereo isomers of reagents used in the reaction.	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		required reagents to obtain target molecule.	

Learning Outcomes

#	Learning Outcome
1	The researcher/student will be able to interpret disconnection approach.
2	The researcher/student will be able to analyse synthetic mechanisms of aliphatic and alicyclic structures in aspects of disconnection approach.
3	The researcher/student will be able to analyse synthetic mechanisms of aromatic and heterocyclic structures in aspects of disconnection approach.
4	will be able to propose reaction mechanisms for the synthesis of drug molecules.

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.