Course Syllabus

Code - Course Title	**FTE536 - Reaction Kinetics and Physical-Chemical Stability**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	DR. ÖĞR. ÜYESİ SİNAN ÖZER

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	Chemical Kinetics and Reaction Dynamics, Paul L. HoustonStability of Drugs and Dosage Forms - Sumie Yoshioka, Valentino J. StellaDrug Stability for Pharmaceutical Scientists - Thorsteinn Loftsson
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction and Basic Concepts	
Week - 2		Reaction Rates and Rate Constants	
Week - 3		Reaction Orders and Kinetic Models	
Week - 4		Relationship Between Reaction Kinetics and Thermodynamics	
Week - 5		Complex Reactions and Mechanisms	
Week - 6		Catalysis and Enzyme Kinetics	
Week - 7		Principles of Physicochemical Stability	
Week - 8		Effects of Environmental Factors on Stability	
Week - 9		Stability Testing in Pharmaceutical Formulations	
Week - 10		Chemical Degradation Reactions in Pharmaceutical Products	
Week - 11		Stability in Disperse Systems	
Week - 12		Kinetics and Stability in Polymer and Biopolymer Systems	
Week - 13		Industrial Applications and Regulations	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		General Assessment and Applications	

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.