Course Syllabus

Code - Course Title	**BYK510 - Kinetic Calculations in Enzymatic Reactions**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. ŞÜKRÜ BEYDEMİR

Mode of Delivery	Face to face
Prerequisites	There is no prerequisite or co-requisite for this course
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Three dimensional folds of proteins	
Week - 2		Three dimensional folds of proteins	
Week - 3		Enzyme structures and active sites	
Week - 4		Coenzymes, General properties of enzymatic reactions	
Week - 5		Coenzymes, General properties of enzymatic reactions	
Week - 6		Enzyme activity measurement methods	
Week - 7		Overview of chemical kinetics	
Week - 8		Micaleis-Menten equation	
Week - 9		Finding Vmax and Km values	
Week - 10		Evaluation of enzymatic reactions kinetics	
Week - 11		Evaluation of enzymatic reactions kinetics	
Week - 12		Inhibition types and inhibition kinetics; Allosteric enzyme kinetics	
Week - 13		Inhibition types and inhibition kinetics; Allosteric enzyme kinetics	
Week - 14		Kinetic Calculations	

Learning Outcomes

#	Learning Outcome
1	Explains the three-dimensional structures of proteins
2	Explains the active sites of the enzymes and general properties of reactions with coenzyme
3	Kimyasal kinteiğin genel kurallarını açıklar
4	Explains the properties of enzyme kinetics
5	Explains the types of inhibition and their kinetic properties

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.