Course Syllabus

Code - Course Title	**BİY319 - Enzymology**
Course Type	VII. SEMESTER
Laboratory + Practice	2+0
ECTS	**2.0**
Language of Instruction	Türkçe
Course Type	Area Elective Courses
Course Instructor(s)	PROF. DR. HATİCE MEHTAP KUTLU

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	Petsko,G., Ringe, D., (2003) Protein Yapısı ve Fonksiyonu. New Science Press
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		define enzyme structure, cofactor, coenzyme	
Week - 2		differences between enzymes and normal catalytic substances, catalytic substances	
Week - 3		chemical structure of enzymes, enzymes chemical structure	
Week - 4		cofactor and coenzymes chemical structure, chemical structures of biological cofactor and coenzymes	
Week - 5		Important coenzymes and the groups they transfer, biologic coenzymes	
Week - 6		activity of catalytic center	
Week - 7		factors that effect enzyme activity, heat, pH , concentration and the others factors on the effect of activity	
Week - 8		enzyme kinetics, Km	
Week - 9		conformation changes of enzyme, conformation	
Week - 10		enzyme specifity	
Week - 11		allosteric enzymes	
Week - 12		activators and inhibitors	
Week - 13		Classification of enzymes	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		discussion	

Learning Outcomes

#	Learning Outcome
1	define enzyme structure
2	define differences between enzymes and normal catalytic substances
3	explain cofactor and coenzymes chemical structure
4	express Important coenzymes and the groups they transfer
5	explain activity of catalytic center
6	define factors that effect enzyme activity
7	define enzyme kinetics
8	define conformation changes of enzyme
9	define enzyme specifity
10	explain allosteric enzymes
11	define activators and inhibitors

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 (%)
Final Exam	1	60
2.Midterm Exam	1	40
	Sum (%)	**100**