Course Syllabus

Code - Course Title	**BYK501 - Biomolecules**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. GÜLŞEN AKALIN ÇİFTÇİ

Mode of Delivery	Presentations
Prerequisites	There is no prerequisite or co-requisite for this course.
Recommended Resources	Campell Biology and Human Biochemistry
Work Placement	No internship/practice is available

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Cellular Functional Units and Transport Systems	
Week - 2		Acid Base Balance	
Week - 3		The Importance of Weak Interactions	
Week - 4		Water and Biomolecular Structure	
Week - 5		Cell Cycle and Regulation	
Week - 6		Macromolecules	
Week - 7		Structure and Functions of Proteins	
Week - 8		Functions and Classification of Enzymes	
Week - 9		Structure and Transport of Lipids	
Week - 10		Structure of carbohydrates	
Week - 11		Structure of Nucleic Acid	
Week - 12		Structure and Classification of Hormones	
Week - 13		Structure and Classification of Vitamins	
Week - 14		Biochemical Energy Exchange	

Learning Outcomes

#	Learning Outcome
1	analyse the cell structure.
2	explain the synthesis pathway of proteins
3	debate the definition and function of enzyme.
4	debate the function and regulation of carbonhydrate metabolism.
5	debate the function and transport of lipids
6	explain the structure of nucleic acids
7	explain the structure and classification of hormons
8	explain the structure and classification of vitamins

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.