Course Syllabus

Code - Course Title	**BYK623 - Cabohydrate Metabolism**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. HALİDE EDİP TEMEL

Mode of Delivery	face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	Biochemistry,
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Carbohydrates and their structural properties	
Week - 2		Classification of carbohydrates	
Week - 3		Digestion and Absorption of Carbohydrates	
Week - 4		Products derived from carbohydrate metabolism intermediates	
Week - 5		Glucose metabolism	
Week - 6		Glycolysis	
Week - 7		Glycolysis-related diseases	
Week - 8		Citric Acid Cycle	
Week - 9		Diseases associated with the citric acid cycle	
Week - 10		Gluconeogenesis metabolism	
Week - 11		Glycogen metabolism	
Week - 12		Pentose phosphate pathway	
Week - 13		Metabolism of fructose and galactose	
Week - 14		Regulation of Carbohydrate Metabolism	

Learning Outcomes

#	Learning Outcome
1	They know and explain the structural properties of carbohydrates.
2	Know the digestion and absorption of carbohydrates
3	It knows where the products from the carbohydrate metabolism intermediate products are used in the body.
4	Explain glucose metabolism
5	Explain the reactions of the citrate cycle,
6	Explains gluconeogenesis metabolism
7	Explains the importance of glycogen metabolism for metabolism.
8	Explains the metabolic importance of pentose phosphate pathway
9	Know fructose and galactose metabolism
10	Know how to organize the whole carbohydrate metabolism

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.