Course Syllabus

Code - Course Title	**BYK507 - Biochemical Metabolism in Exercise**
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 YÜKSEL ÖĞÜNÇ KEÇECİ

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

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to exercise metabolism	
Week - 2		Parameters of exercise	
Week - 3		Muscular Contraction in Exercise	
Week - 4		Carbohydrate Metabolism in Exercise	
Week - 5		Glycolysis in Muscles, Pyruvate Oxidation, Citric acide cycle	
Week - 6		Lipid Metabolism in Exercise	
Week - 7		Protein Metabolism in Exercise	
Week - 8		Exercise and Gen Expression	
Week - 9		Integration of Exercise Metabolism	
Week - 10		Nutrition as Energy Source in Exercise	
Week - 11		Iron Status in Exercise	
Week - 12		Metabolites in Exercise	
Week - 13		Enzymes in exercise	
Week - 14		Hormones in exersize	

Learning Outcomes

#	Learning Outcome
1	Explains the definition and properties of metabolism
2	Explain the functions of some important elements and molecules for metabolism
3	Explains glucose formation and fate
4	Explain the respiratory in metabolism
5	Explains the mechanism of formation of five-carbon sugars and NADP in metabolism
6	Explains glycogen metabolism and metabolic communication

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.