Course Syllabus

Code - Course Title	**BYK604 - Biochemical Cascade Systems**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. GÜLŞEN AKALIN ÇİFTÇİ

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	Harper\\\'s Biochemistry, Human Biochemistry
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to Cascad Systems: Signal Transduction in Cell	
Week - 2		Receptors	
Week - 3		G proteins and Secondary Messangers	
Week - 4		Coagulation Cascad	
Week - 5		Compleman Cascad	
Week - 6		Vitamin A and Vitamin D Cascad	
Week - 7		Apoptosis Cascad	
Week - 8		Arachidonic Acid Cascad	
Week - 9		Insulin Cascad	
Week - 10		Muscle Contraction	
Week - 11		Grwth Factors and Cytokine Cascad Systems	
Week - 12		Hearing, Smelling and Vision Cascads	
Week - 13		Glycogen Organization	
Week - 14		Leptin Cascad	

Learning Outcomes

#	Learning Outcome
1	assess the cascad systems in terms of biochemistry
2	evaluate the biochemistry of signal transduction in cell
3	evaluate the structures of coagulation systems and occuring biochemical events
4	evaluate the matabolism of compleman cascad systems
5	Evaluate Vitamins A and D
6	evaluate the biochemistry of apoptosis
7	assess the arachidonic systems in terms of biochemistry
8	assess the insulin pathway and glycogen metabolism
9	Evaluate Hearing, Smelling and Vision Cascads

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.