Course Syllabus

Code - Course Title	**BYK620 - Nucleic Acid Metabolism**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. ZERRİN SELLER

Mode of Delivery	face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	Cell Biology and Molecular Biology
Recommended Resources	Biochemisdtry (Jeremy M Berg; John Tymoczko; Lubert Stryer, 2012, Seventh EditionISBN-10: 1429229365)Lehninger Principles of Biochemistry (David L. Nelson, Michael M. Cox,2009, Fifth EditionISBN-10: 071677108X)
Work Placement	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Structural Units of Nucleic Acids and Their Functions	
Week - 2		Nucleotides	
Week - 3		Methods of Sequencing Nucleic Acids	
Week - 4		Base-Specific Chemical Fracture Method	
Week - 5		Dideoxy Scaling Gel Method	
Week - 6		Chain Termination Method	
Week - 7		Nucleotide Biosynthesis	
Week - 8		Purine re-synthesis and recovery responses	
Week - 9		Conversion Reactions of One, Two and Three Phosphate Nucleotides	
Week - 10		Biosynthesis of Pyrimidines	
Week - 11		The control points in biosynthesis of pyrimidines	
Week - 12		Degradation of nucleotides	
Week - 13		Synthetic and Inhibitory Inhibitor Compounds	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Nucleotide Metabolism Disorders	

Learning Outcomes

#	Learning Outcome
1	explain the structure and functions of nucleic acids
2	debate the synthesis methods of nucleic acids
3	explain the biosynthesis of nucleic acids
4	explain the degredation reaction of nucleic acids

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.