Course Syllabus

Code - Course Title	**BİY451 - Diagnostic Microbiology**
Course Type	VII. SEMESTER
Laboratory + Practice	2+0
ECTS	**3.5**
Language of Instruction	Türkçe
Course Type	Area Elective Courses
Course Instructor(s)	PROF. DR. KIYMET GÜVEN

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	*Tang Yi-Wei, Stratton, C. W. (2006). Advanced techniques in Diagnostic Microbiology. Springer. * Madigan, M.T., Martinko, J. M. and Parker, J. (2003). Brock Biology of Microorganisms. Prentice Hall * Wilks, D. Farrington, M. and Rubenstein, D. (1995) The infectious diseases manual, Oxford : Blackwell Science, * Black, J. G. (1996). Microbiology : principles and applications (3rd ed.) Prentice Hall * Poyraz, Ö. (1998). Tıbbi mikrobiyoloji Laboratuvar kılavuzu. * Karahan, A.G. (2002). Genel mikrobiyoloji uygulama kılavuzu * Baybek, H. (2002) Mikrobiyoloji pratiği ders notları
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Overview of human pathogens	
Week - 2		Overview of human pathogens	
Week - 3		Isolation of pathogens from Clinical Specimens	
Week - 4		Growth dependent identification methods	
Week - 5		Testing cultures for antimicrobial drug sensitivity	
Week - 6		Immunodiagnostics	
Week - 7		Agglutination	
Week - 8		Immunoelectron microscopy	
Week - 9		Fluorescent antibodies	
Week - 10		ELISA	
Week - 11		Radioimmunoassay	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 12		Immunoblot procedures	
Week - 13		Nucleic acid probes	
Week - 14		Diagnostic virology	

Learning Outcomes

#	Learning Outcome
1	explain the isolation of pathogens from clinical samples.
2	evaluate the growth dependent identification methods.
3	define the antimicrobial sensitivity tests of microorganisms.
4	define the identification by serological methods.
5	explain the identification by nucleic acid probs.
6	explain the identification of clinically pathogen viruses.

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.

Assessment Method and Passing Requirements	Quamtity	Percentage (%)
Final Exam	1	50
2.Midterm Exam	1	25
Homework	1	25
	Sum (%)	**100**