Course Syllabus

Code - Course Title	**FTM501 - Advanced Pharmaceutical Microbiology**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. BAŞAK KAYHAN

Mode of Delivery	Face to face or remotely
Prerequisites	Students should have basic microbiology knowledge
Courses Recomended	There is no recommended course
Recommended Resources	The course is conducted with updated articles.
Work Placement	No need internship or practice

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		İntroduction to Pharmaceutical Microbiology and Microbial Physiology	
Week - 2		Bacteria and Fungi	
Week - 3		Virus and Protozoa	
Week - 4		Microbial Pathogenicity and Epidemiology	
Week - 5		İmmunology and Immunization	
Week - 6		Antibiotics and Synthetic Antimicrobial Agents	
Week - 7		Bacterial Resistance to Antibiotics	
Week - 8		Public Health Microbiology	
Week - 9		Contamination and Sterilization	
Week - 10		Pharmaceutical Production and Good Manufacturing Practice	
Week - 11		Recombinant DNA Technology	
Week - 12		Contribution of Microbiology to the Pharmaceutical Sciences	
Week - 13		Microbial Biotechnological Pharmaceutical Product	
Week - 14		Human Microbiome	

Learning Outcomes

#	Learning Outcome
1	List the basic properties of microorganisms and explain the microorganism groups.
2	Explain the microbial pathogenicity and epidemiology
3	Explains immunology and immunization and explains their connection with each other.
4	Explain antibiotics and synthetic antimicrobial agents and bacterial resistance against them.
5	Explain public health microbiology
6	Explain the contamination, sterilization and good manufacturing practices in pharmaceutical products.
7	Explains recombinant DNA technology and lists pharmaceutical products produced by this system.
8	Explain the contribution of microbiology to pharmaceutical sciences.
9	Describes the human microbiome, lists the microorganisms found in different regions, explains the human microbiome project.

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.