Course Syllabus

Code - Course Title	**FTM503 - Advanced Pharmaceutical Microbiological Applications**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. ZERRİN CANTÜRK

Mode of Delivery	Face to face
Prerequisites	Having taken the Advanced Pharmaceutical Microbiology course
Courses Recomended	Advanced Pharmaceutical Microbiology course
Work Placement	-

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Safe Working in the Laboratory	
Week - 2		Minimizing the risk in the laboratory	
Week - 3		Safe working with biological materials	
Week - 4		Use of Basic Devices Used in Microbiology Laboratory	
Week - 5		Preparation and Application of Liquid and Solid Media	
Week - 6		Laboratory Application	
Week - 7		Midterm Exam	
Week - 8		Staining Methods of Microorganisms	
Week - 9		Gram staining, Spore staining and Capsule staining	
Week - 10		Antimicrobial Activity Tests Applied on Microorganisms	
Week - 11		Macrobroth dilution, Microbroth dilution, Disk diffusion and Time-Kill tests and applications	
Week - 12		Sterilization and Disinfection Methods	
Week - 13		Sterilizer, Autoclave usage, Disinfectant usage and application procedures.	
Week - 14		Fınal Exam	

Learning Outcomes

#	Learning Outcome
1	Learn to Work Safely in the Laboratory
2	Learn how to use basic equipment used in the Microbiology Laboratory.
3	Prepares and applies liquid and solid media.
4	Learn the Staining Methods of Microorganisms.
5	Learn how to perform antimicrobial activity tests on microorganisms.
6	Lists the Sterilization and Disinfection Methods.

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.