Course Syllabus

Code - Course Title	**ECZ123 - Pharmaceutical Microbiology I**
Course Type	I. SEMESTER
Laboratory + Practice	2+0
ECTS	**2.5**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. YAĞMUR TUNALI, PROF. DR. ZERRİN CANTÜRK

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 oitional programme component for the student to take this course.
Recommended Resources	BROCK BIOLOGY OF MICROORGANISMS, Twelfth Edition, Madigan, M.T.., Martinko, J.M., Dunlap, P.V., Clark, D.P., 2009, Pearson.
Work Placement	No

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction Microorganism and microbiology	
Week - 2		Microbial Cells and Organisation	
Week - 3		Microbial Physiology: Microbial Physiology, Microbial Reproduction and Effective Physiological Factors, Microbial Nutrition, Effective Factors on Microbial Reproduction	
Week - 4		Microbial Physiology: Microbial Culture and Types, Sowing Techniques, Storage Methods of Microorganisms	
Week - 5		Microbial Metabolism: Energy Obtaining Pathways of Microorganisms	
Week - 6		Microbial Metabolism: Energy Obtaining Pathways of Microorganisms	
Week - 7		Microbial Genetics: Microorganisms and Genetic materials	
Week - 8		Microbial Genetics: Mutations	
Week - 9		Microbial Diversity: Bacteria	
Week - 10		Microbial Diversity: Fungus	
Week - 11		Microbial Diversity: Viruses	
Week - 12		Microbial Diversity:Parasites	
Week - 13		Microbial Diversity:Algae	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Microbial Diversity: Algae	

Learning Outcomes

#	Learning Outcome
1	Explain the history of microbiology.
2	Will be able to explain microbial evolution.
3	Explain the sub-branches and application areas of microbiology.
4	Classification of microorganisms makes.
5	will be able to explain prokaryotic cell organisation.
6	Will be able to explain eukaryotic cell organisation.
7	Will be able to explain microbial growth and effective physiological factors.
8	Will be able to explain microbial nutrition.
9	Will be able to explain the factors affecting microbial growth.
10	Will be count microbial culture and types.
11	Will be able to explain sowing techniques.
12	Will be able to explain the storage methods of microorganisms.
13	Will be explain the ways of microorganisms to obtain energy.
14	Will be able to explain microorganisms and genetic materials.
15	Will be able to explain mutations.
16	Will be able to explain bacteria.
17	Will be able to explain fungi.
18	Will be able to explain viruses.
19	Will be able to explain parasites.
20	Will be able to explain algae.

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

AKTS Workload

Activity	Duration (Hour)	Count	Workload
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.