Course Syllabus

Code - Course Title	**FKG529 - Biotrasformations in Pharmacognosy**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. FATİH DEMİRCİ

Mode of Delivery	face to face
Prerequisites	There is no prerequisite or co-requisite for this course.
Courses Recomended	-
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Historical development of Pharmacobiotechnology, definitions, introduction	
Week - 2		Drugs obtained by fermentation and their preparations	
Week - 3		Production of pharmaceuticals by microorganisms	
Week - 4		Antibiotics, antimicrobials, anticancer natural products, secondary metabolites, aromatic compounds and others	
Week - 5		Biotransformation, biocatalysis, biomimetic catalyses, biodegradation - examples	
Week - 6		Biotransformation, biocatalysis, biomimetic catalyses, biodegradation - examples	
Week - 7		Biotransformations by enzymes, plant cells and cell cultures	
Week - 8		Microbial transformations	
Week - 9		Natural products as substrates for microbial transformations	
Week - 10		Bioactive metabolite production	
Week - 11		Biocatalysts and industrial examples	
Week - 12		Biotransformations with and on pharmaceuticals	
Week - 13		Analytical and chromatographic methods used in biotransformations	
Week - 14		Examples for biotransformations used in pharmacognosy	

Learning Outcomes

#	Learning Outcome
1	discuss basic biotransformation principles and methods
2	distinguish biotransformation applications
3	compare pros and cons of biotransformation 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.