Course Syllabus

Code - Course Title	**FTE540 - Powder Drugs and Micromeritics**
Course Type	II. SEMESTER
Laboratory + Practice	3+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. MUSTAFA SİNAN KAYNAK

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	The students that take this course recommended take also FTE525 Solid Drug Delivery Systems course.
Work Placement	Students do not need to do an internship or practice.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		The terminology related to micromeritic	
Week - 2		Microscopy and shape factors	
Week - 3		The important of particle size and distribution on pharmaceutical area	
Week - 4		The sample preparation methods which are used for particle size and distribution analysis.	
Week - 5		The methods of particle size and distribution analysis; microscop method, sieve analysis and sedimentation method	
Week - 6		The methods of particle size and distribution analysis; conductivity method and laser light scattering method.	
Week - 7		The methods of particle size and distribution analysis; photon corelation spectroscopy, permeability method and adsorption method.	
Week - 8		The physical and chemical adsorption, the factors affecting adsorption.	
Week - 9		The adsorption analysis, gase-solid interfaces	
Week - 10		Adsorption isotherms	
Week - 11		Liquid-solid interfaces, the technological applications of adsorption	
Week - 12		The density and Housner Index on powder drugs.	
Week - 13		The flow properties of powder drugs and changing of properties of powders	
Week - 14		Porosity	

Learning Outcomes

#	Learning Outcome
1	explain to important of particle size and distribution on pharmaceutical area.
2	define the methods of particle size and distribution analysis.
3	compare the methods of particle size and distribution analysis.
4	explain the factors affecting adsorption.
5	define the methods of adsorption analysis.
6	define the adsorption isotherms.
7	summarize the technological applications of adsorption.
8	define the dansity and Housner index on powders.
9	evaluate the flow properties of powder drugs.
10	translate the methods used for changing of powder properties.
11	explain the important of porosity.
12	define the micromeritic and porosity.

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.