Course Syllabus

Code - Course Title	**FTE629 - Dissolution Rate in Drug Delivery Systems**
Course Type	I. SEMESTER
Laboratory + Practice	3+0
ECTS	**7.5**
Language of Instruction	Türkçe
Course Type	Elective Courses
Course Instructor(s)	PROF. DR. MÜZEYYEN DEMİREL

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 optional programme component for this course.
Recommended Resources	United states pharmacopeia (USP), British pharmacopeia (BP), European Pharmacopeia (EP)
Work Placement	N/A

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Definition of solubility and dissolution rate	
Week - 2		Factors affecting the solubility of the active substance	
Week - 3		Factors affecting release of active agent from solid dosage forms	
Week - 4		Equipments of In Vitro Dissolution Rate 1	
Week - 5		Equipments of In Vitro Dissolution Rate 2	
Week - 6		In vitro dissolüsyon test cihazları 3	
Week - 7		Design and Calibration of Dissolution Rate Tests 1	
Week - 8		Design and Calibration of Dissolution Rate Tests 2	
Week - 9		Validation of Dissolution Rate Test 1	
Week - 10		Validation of Dissolution Rate Test 2	
Week - 11		The Role of Dissolution Tests in Drug Development Process	
Week - 12		Evaluation of Dissolution Tests 1	
Week - 13		Evaluation of Dissolution Tests 2	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 14		Calculating the Similarity Factor (f2)	

Learning Outcomes

#	Learning Outcome
1	Explain the concepts of solubility and dissolution rate.
2	Classify dissolution rate tests.
3	Have an idea about the dissolution rate experiment design.
4	Conduct of dissolution rate tests and interpretation of results.

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.