Course Syllabus

Code - Course Title	**ECZ496 - Pharmaceutical Technology IV**
Course Type	VIII. SEMESTER
Laboratory + Practice	4+2
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. EBRU BAŞARAN, PROF. DR. AHMET ALPER ÖZTÜRK

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.
Work Placement	Includes laboratory studies

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Granule. Preparation of Granule.	
Week - 2		Tablets. Preparation of Tablets.	
Week - 3		Tablets. Preparation of Tablets.	
Week - 4		Tablets. Preparation of Effervescent Tablets.	
Week - 5		Modified Drug Delivery Systems. Preparation of Modified Release Tablets.	
Week - 6		Modified Drug Delivery Systems. Preparation of Bioadhesive Tablets.	
Week - 7		Modified Drug Delivery Systems. Preparation of Coated Tablets.	
Week - 8		Modified Drug Delivery Systems. Preparation of Microcapsules.	
Week - 9		Modified Drug Delivery Systems. Quality Control Studies Conducted on Granules.	
Week - 10		Agrochemicals and Veterinary Medicines. Quality Control Studies Conducted on Granules.	
Week - 11		GLP/GMP. Quality Control Studies Conducted on Tablets.	
Week - 12		Patent Authorization. Quality Control Studies Conducted on Tablets.	
Week - 13		GMP/GLP, Preparation Microcapsule. Water, Packaging Material, and Surgical Material Control	
Week - 14		Patent License. Water, Packaging Material and Surgical Material Control.	

Learning Outcomes

#	Learning Outcome
1	Will be able to explain general information about granules.
2	Will be able to explain granule preparation methods.
3	Will be able to explain granule control.
4	Will be able to explain general information about tablets.
5	Will be able to define tablet formulation.
6	Will be able to explain tablet preparation methods.
7	Will be able to explain tablet compression.
8	Will be able to explain tablet control.
9	Will be able to define coated tablets.
10	Will be able to provide general information about modified drug delivery systems.
11	Will be able to explain the structural classification of modified drug delivery systems.
12	Will be able to explain the classification of modified drug delivery systems based on their method of application.
13	Will be able to explain targeting in modified drug delivery systems.
14	Will be able to explain bioavailability in modified drug delivery systems.
15	Will be able to explain the characteristics of agricultural chemicals.
16	Will be able to explain the use, storage, and packaging of agricultural chemicals.
17	Will be able to give examples of agricultural chemicals.
18	Will be able to explain the characteristics of veterinary drugs.
19	Will be able to explain the use, storage, and packaging of veterinary drugs.
20	Will be able to explain the prescription and prospectus for veterinary drugs.
21	Will be able to define GLP/GMP terminology.
22	Will be able to explain validation.
23	Will be able to explain production.
24	Will be able to explain quality.
25	Will be able to explain the basic concepts of granules.
26	Will be able to explain the application of granules.
27	Will be able to explain granule controls.
28	Will be able to explain the basic concepts of tablets.
29	Will be able to explain tablet preparation methods.
30	Will be able to explain tablet application.
31	Will be able to explain the basic concepts of effervescent tablets.
32	Will be able to explain the application of effervescent tablets.
33	Will be able to explain the basic concepts of modified-release tablets.
34	Will be able to explain the application of modified-release tablets.
35	Will be able to explain the basic concepts of bioadhesive tablets.
36	Will be able to explain the application of bioadhesive dosage forms.
37	Will be able to explain the basic concepts of tablet control.

Learning Outcomes

#	Learning Outcome
38	Will be able to explain the application of tablet control.
39	Will be able to explain the basic concepts of coated tablets.
40	Will be able to explain the control of coated tablets.
41	Will be able to explain the basic concepts of microcapsules.
42	Will be able to explain the control of microcapsules.
43	Will be able to explain the application of distilled water control.
44	Will be able to explain the application of glass control.
45	Will be able to explain the application of cotton control.
46	Will be able to explain the application of gauze control.

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.