Course Syllabus

Code - Course Title	**ECZ393 - Pharmaceutical Technology I**
Course Type	V. 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. 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	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		Pharmaceutical Water. Basic Concepts and Definitions.	
Week - 2		Pharmaceutical Solution. Various Solution, Preparation of Aromatic Water, Syrup Preparations.	
Week - 3		Pharmaceutical Solution. Various Solution, Preparation of Aromatic Water, Syrup Preparations.	
Week - 4		Rheology. Various Solutions, Aromatic Water and Syrup Preparations.	
Week - 5		Macro Molecular Substance. Various Potions, Collitory and Corrosive Preparations.	
Week - 6		Macro Molecular Substance. Various Potions, Collitory and Corrosive Preparations.	
Week - 7		Colloidal System.Various Potions, Collitory and Corrosive Preparations.	
Week - 8		Colloidal System.Various Potions, Collitory and Corrosive Preparations.	
Week - 9		Suspension System. Various Suspension, Emulsion and Microemulsion Preparations.	
Week - 10		Suspension System. Various Suspension, Emulsion and Microemulsion Preparations.	
Week - 11		Suspension System. Emulsion System. Various Suspension, Emulsion and Microemulsion Preparations.	
Week - 12		Emulsion System. Various Suspension, Emulsion and Microemulsion Preparations.	
Week - 13		Emulsion System. Various Suspension, Emulsion and Microemulsion Preparations.	
Week - 14		Emulsion System. Preparation of Various Suspension, Emulsion, Microemulsion Preparations.	

Learning Outcomes

#	Learning Outcome
1	Can explain general properties of pharmaceutical water
2	Can explain methods of preparing pharmaceutical water
3	Can define types of water listed in pharmacopeias
4	Can explain quality control of pharmaceutical water
5	Can define general properties of pharmaceutical solutions
6	Can explain solubility and dissolution rate
7	Can explain preparation of pharmaceutical solutions
8	Can define orally administered solutions
9	Can explain injectable solutions
10	Can explain ophthalmic, otic, and nasal solutions
11	Can explain inhalation solutions
12	Can explain oral cavity solutions
13	Can explain topical solutions
14	Can explain rectal and vaginal solutions
15	Can explain irrigation solutions
16	Can explain lens solutions
17	Can explain the stability of pharmaceutical solutions
18	Can explain rheology and pharmaceutical technology
19	Can explain viscosity
20	Can explain flow models
21	Can explain thixotropy and rheopexy
22	Can explain rheometers
23	Can explain viscoelasticity
24	Can explain the structural properties of macromolecular substances
25	Can explain the classification of polymers
26	Can explain the diffusion mechanism from polymers
27	Can explain the general properties of colloidal systems
28	Can explain the classification of colloidal systems
29	Can explain the characterization of colloidal systems
30	Can explain the stability of colloidal systems
31	Can explain properties of suspension systems
32	Can explain the characterization of suspension systems
33	Can explain the preparation of suspension systems
34	Can explain the stability of suspension systems
35	Can explain properties of emulsion systems
36	Can explain emulsifying agents
37	Can explain preparation of emulsion systems
38	Can explain characterization of emulsion systems

Learning Outcomes

#	Learning Outcome
39	Can explain the stability of emulsion systems
40	Can explain weighing and measurement
41	Can perform alcohol dilution
42	Can explain packaging
43	Can explain Latin abbreviations
44	Can explain general properties of solutions
45	Can explain solution prescriptions
46	Can explain general properties of aromatic waters
47	Can explain aromatic water prescriptions
48	Can explain the definition and application of potions
49	Can explain the definition and application of collutories
50	Can explain the definition and application of corroside
51	Can explain the definition and preparation of syrups
52	Can explain basic concepts and methods in emulsions
53	Can explain emulsion prescriptions

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.