Course Syllabus

Code - Course Title	**ECZ391 - Pharmaceutical and Medicinal Chemistry I**
Course Type	V. SEMESTER
Laboratory + Practice	3+1
ECTS	**4.5**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	DOÇ. DR. ASİYE MERİÇ, DOÇ. DR. BELGİN SEVER

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	Not Applicable

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		General Synthesis Information; General Laboratory Rules	
Week - 2		Separation and Purification Methods; Synthesis and Separation and Purification Application I (Demostrative)	
Week - 3		Reaction Types Commonly Used in Drug Synthesis; Synthesis and Separation and Purification Application II (Demostrative)	
Week - 4		Spectroscopic Analysis Methods; Yield Calculation of Synthesized Compounds, Spectroscopic Analysis Evaluation and Reporting (Demostrative)	
Week - 5		Parasympathomimetic Drugs; Synthesis and Separation Purification Application I (Group)	
Week - 6		Parasympatholytic Drugs; Yield Calculation of Synthesized Compounds, Spectroscopic Analysis Evaluation and Reporting I	
Week - 7		Sympathomimetic Drugs; Synthesis and Separation Purification Application II (Group)	
Week - 8		Sympatholytic Drugs Ganglion Stimulants and Blockers; Yield Calculation of Synthesized Compounds, Spectroscopic Analysis Evaluation and Reporting II	
Week - 9		Antihypertensive Drugs, Peripheral Vasodilators; Synthesis and Separation Purification Application III (Group)	
Week - 10		Drugs Used Against Heart Failure, Antiarrhythmic Drugs, Antianginal Drugs; Yield Calculation of Synthesized Compounds, Spectroscopic Analysis Evaluation and Reporting III	
Week - 11		Hypolipidemic Drugs, Antithrombotic Drugs; Synthesis and Separation Purification Application IV (Group)	

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Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 12		Hemostatic Drugs, Blood, Plasma Products and Antianemic Drugs; Yield Calculation of Synthesized Compounds, Spectroscopic Analysis Evaluation and Reporting IV	
Week - 13		Diuretics, Drugs Used in Water and Electrolyte Balance Disorders; General Evaluation and Compensation Laboratory	
Week - 14		Diuretics, Drugs Used in Water and Electrolyte Balance Disorders; General Evaluation and Compensation Laboratory	

Learning Outcomes

#	Learning Outcome
1	Explain parasympathomimetics.
2	Explain parasympatholytics.
3	Explain symptomomimetics.
4	Explain sympatholytics.
5	Explain the drugs used in heart failure.
6	Explain antiarrhythmic drugs.
7	Explain antianginal drugs.
8	Explain Peripheral Vasodilators.
9	Explain antihypertensive and antihypotensive drugs.
10	Explain antihyperlipidemic drugs.
11	Explain Antivaricose Drugs.
12	Explain hemostatic drugs.
13	Explain antithrombotic drugs.
14	Explain antianemic drugs.
15	Explain the Plasma Substitute Compounds.
16	Explain the drugs used in water and electrolyte balance disorders.
17	Explain the drugs used in acid-base balance disorders.
18	Be able to perform synthesis applications.
19	Be able to perform separation and purification applications.
20	Be able to perform IR Spectroscopy applications.
21	Be able to perform 1H NMR Spectroscopy applications.
22	Be able to perform mass spectroscopy applications.

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.