Course Syllabus

Code - Course Title	**ECZ395 - Pharmacy and Basic Medical Sciences I**
Course Type	V. SEMESTER
Laboratory + Practice	6+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. ÜMİDE DEMİR ÖZKAY, PROF. DR. NURCAN BEKTAŞ TÜRKMEN

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.

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 1		Introduction to the Nervous System. General Concepts of Nervous System Physiology. Synapse and Action Potential.	
Week - 2		Autonomic Nervous System Anatomy and Physiology	
Week - 3		Cardiovascular System Anatomy and Physiology	
Week - 4		Cardiovascular System Anatomy and Physiology	
Week - 5		Cholinomimetic and Parasympatholytic Drugs	
Week - 6		Sympathomimetic Drugs	
Week - 7		Sympatholytic Drugs. Ganglionic Stimulants and Blockers.	
Week - 8		Adverse Effects Induced by Autonomic Nervous System Drugs.	
Week - 9		Autocoids	
Week - 10		Antihypertensive Drugs. Peripheral Vasodilators.	
Week - 11		Drugs Used for Heart Failure. Antiarrhythmic Drugs. Antianginal Drugs.	
Week - 12		Hypolipidemic Drugs. Antithrombotic Drugs. Hemostatic Drugs, Blood, Plasma Products, and Antianemic Drugs. Diuretics, Drugs Used in Fluid and Electrolyte Imbalances.	
Week - 13		Adverse Effects Induced by Cardiovascular System Drugs	
Week - 14		Adverse Effects Induced by Cardiovascular System Drugs	

Learning Outcomes

#	Learning Outcome
1	Will explain the general concepts related to the anatomy of the nervous system.
2	Will explain the sympathetic nervous system.
3	Will explain the parasympathetic nervous system.
4	Will explain the enteric nervous system.
5	Will explain the anatomy of the heart.
6	Will explain the arteries.
7	Will explain the veins.
8	Will explain the lymphatic system.
9	Will explain the anatomy of the kidney.
10	Will explain the general concepts related to the physiology of the nervous system.
11	Will explain the synapse and action potential.
12	Will explain the functions of the autonomic nervous system and adrenal medulla.
13	Will explain the main neurotransmitter of the parasympathetic nervous system.
14	Will explain the main neurotransmitter of the sympathetic nervous system.
15	Will explain cardiac muscle and the cardiac cycle.
16	Will explain the regulation of the heart's pumping function.
17	Will explain the rhythmic stimulation of the heart.
18	Will explain the electrocardiogram (ECG).
19	Will explain cardiac arrhythmias.
20	Will explain the basic physiological characteristics of the circulatory system.
21	Explain the excitation and contraction of smooth muscle.
22	Will explain the ability of blood vessels to recoil and the functions of the arterial and venous systems.
23	Describe the normal values of cardiac output at rest and during activity.
24	Will explain the local control of blood flow by tissues.
25	Will explain the neural regulation of circulation and the rapid control of arterial pressure.
26	Will explain cholinomimetic drugs.
27	Will explain parasympatholytic drugs.
28	Will explain sympathomimetic drugs.
29	Will explain sympatholytic drugs.
30	Will explain ganglionic stimulants and blockers.
31	Will explain antihypertensive drugs.
32	Will explain peripheral vasodilator drugs.
33	Will explain antianginal drugs.
34	Will explain antiarrhythmic drugs.
35	Will explain drugs used for heart failure.
36	Will explain hypolipidemic drugs.
37	Will explain antithrombotic drugs.
38	Explains hemostatic drugs and other hemostatic blood products used for replacement.

Learning Outcomes

#	Learning Outcome
39	Explains blood, plasma products and solutions that expand plasma volume.
40	Will explain antianemic drugs.
41	Explains medications that affect water, salt and acid-base balance.
42	Explains the mechanisms of action of drugs affecting water, salt and acid-base balance.
43	Will explain the adverse effects induced by cholinomimetic drugs.
44	Will wxplain the adverse effects induced by parasympatholytic drugs.
45	Will explain the adverse effects induced by sympathomimetic drugs.
46	Will explain the adverse effects induced by sympatholytic drugs.
47	Will explain the adverse effects induced by ganglion stimulants and blockers.
48	Explains the mechanism of adverse effects induced ganglion stimulants and blockers.
49	Will explain the adverse effects induced by antihypertensive drugs.
50	Will explain the adverse effects induced by peripheral vasodilator drugs.
51	Will explain the adverse effects induced by antianginal drugs.
52	Will explain the adverse effects induced by antiarrhythmic drugs.
53	Will explain the adverse effects induced by drugs used in the treatment of heart failure.
54	Will explain the adverse effects induced by hypolipidemic drugs.
55	Will explain the adverse effects induced by antithrombotic drugs.
56	Explains the risk factors for adverse effects induced by anticoagulant drugs.
57	Lists drug-drug and drug-food interactions.
58	Will explain the adverse effects induced by hemostatic drugs, replacement therapies, and other hemostatic blood products.
59	Will explain the adverse effects induced by blood, plasma products, and plasma volume expanders.
60	Will explain the adverse effects induced by antianemic drugs.
61	Will explain the adverse effects induced by drugs that affect water, salt, and acid-base balance.

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

AKTS Workload

Activity	Duration (Hour)	Count	Workload
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.