Course Syllabus

Code - Course Title	**ECZ497 - Pharmacy and Basic Medical Sciences III**
Course Type	VII. SEMESTER
Laboratory + Practice	6+0
ECTS	**6.0**
Language of Instruction	Türkçe
Course Type	Required Courses
Course Instructor(s)	PROF. DR. SÜLEYMAN AYDIN, DR. ÖĞR. ÜYESİ FEYZA ALYU ALTINOK

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		Bacterial Infectious Diseases. Fundamentals of Chemotherapy. Beta-lactam antibiotics.	
Week - 2		Beta-lactam antibiotics. Macrolide, Lincosamide, Streptogramin antibiotics, and Linezolid.	
Week - 3		Tetracyclines, Chloramphenicol, Aminoglycosides, Fluoroquinolones, Sulfonamides, Co-trimoxazole, and Trimethoprim.	
Week - 4		Narrow-spectrum antibiotics, Drugs used in the treatment of urinary tract infections. Adverse effects induced by antibacterial drugs.	
Week - 5		Virus and Fungal Infections. Mycobacterial and Parasitic Infections.	
Week - 6		Antifungal Drugs, Antiviral Drugs. Drugs used in Tuberculosis and other Mycobacterial Infections, Antiamoebic and Antiprotozoal Drugs.	
Week - 7		Antimalarial Drugs, Antihelmintic Drugs, Drugs used against Ectoparasites, Antiseptics, and Disinfectants.	
Week - 8		Adverse Effects Induced by Antifungal Drugs, Antiviral Drugs, and Infections Caused by Mycobacteria and Parasites.	
Week - 9		Anatomy and Physiology of the Respiratory System	
Week - 10		Antitussive Drugs, Expectorants, Mucolytic Drugs, and Surfactants; Bronchodilator Drugs and Other Anti-Asthmatic Drugs; Oxygen and Other Therapeutic Gases.	
Week - 11		Cancer	
Week - 12		Basic Information and Concepts Related to Cancer Chemotherapy, Cytotoxic Drugs, Hormones and Hormone Antagonists, and Other Approaches Used in Cancer Treatment.	

Course Syllabus

Weeks	Learning Outcomes	Topics	Teaching Methods
Week - 13		Adverse Effects Induced by Anticancer Drugs. Adverse Effects Induced by Respiratory System Drugs.	
Week - 14		Adverse Effects Induced by Anticancer Drugs. Adverse Effects Induced by Respiratory System Drugs.	

Learning Outcomes

#	Learning Outcome
1	Will explain the anatomy of the upper respiratory tract.
2	Will explain the anatomy of the lower respiratory tract.
3	Will explain lung ventilation.
4	Will explain pulmonary circulation.
5	Will explain the physical principles of gas exchange.
6	Will explain the transport of oxygen and carbon dioxide in the blood and tissue fluids.
7	Will explain the regulation of respiration.
8	Will explain respiratory insufficiency.
9	Will explain the tumor cell.
10	Will explain tumor growth.
11	Will explain the formation of cancer.
12	Will explain the factors that influence cancer formation.
13	Will explain the treatment methods for cancer.
14	Will explain bacterial infections.
15	Will explain viral infections.
16	Explains parasitic infections.
17	Explains the basics of chemotherapy.
18	Will explain beta-lactam antibiotics.
19	Will explain macrolide, lincosamide, streptogramin antibiotics, and linezolid.
20	Will classify tetracyclines.
21	Will explain amphenicols.
22	Will explain aminoglycosides.
23	Will explain narrow-spectrum antibiotics.
24	Will explain fluoroquinolones.
25	Describes the mechanisms of action of fluoroquinolones.
26	Differentiates the indications of fluoroquinolones.
27	Will explain sulfonamides, co-trimoxazole, and trimethoprim.
28	Differentiates the indications of sulfonamides.
29	Explains the pharmacokinetic properties of trimethoprim.
30	Will explain the medications used in the treatment of urinary infections.
31	Will explain the medications used in the treatment of tuberculosis and other mycobacterial infections.

Learning Outcomes

#	Learning Outcome
32	Will explain the antimicrobial and antiprotozoal medications.
33	Will explain the antimalarial medications.
34	Will explain the antihelminthic medications.
35	Will explain the medications used against ectoparasites.
36	Will explain the antiviral medications.
37	Will explain antiseptics and disinfectants.
38	Will explain the basic information and concepts related to cancer chemotherapy.
39	Will explain hormones and hormone antagonists.
40	Will explain other approaches used in cancer treatment.
41	Will explain antitussive medications.
42	Classifies antitussive medications.
43	Explains the contraindications of antitussive medications.
44	Will explain expectorants.
45	Classifies expectorant medications.
46	Explains the mechanisms of action of expectorant medications.
47	Will explain mucolytic medications.
48	Will explain surfactants.
49	Will explain bronchodilator medications and other anti-asthmatic drugs.
50	Will explain oxygen and other therapeutic gases.
51	Will explain the adverse effects induced by penicillins.
52	Will explain the adverse effects induced by cephalosporins.
53	Will explain the adverse effects induced by other beta-lactam antibiotics.
54	Will explain the adverse effects induced by macrolides.
55	Explains the mechanism of the adverse effects induced by macrolides.
56	Will explain the adverse effects induced by tetracyclines.
57	Will explain the adverse effects induced by amphenicols.
58	Will explain the adverse effects induced by aminoglycosides.
59	Will explain the adverse effects induced by narrow-spectrum antibiotics.
60	Will explain the adverse effects induced by fluoroquinolones.
61	Will explain the adverse effects induced by sulfonamides, co-trimoxazole, and trimethoprim.
62	Will explain the adverse effects induced by antifungal drugs.
63	Will explain the adverse effects induced by drugs used in tuberculosis and other mycobacterial infections.
64	Will explain the adverse effects induced by drugs used in the treatment of urinary infections.
65	Will explain the adverse effects induced by antiamoebic drugs.
66	Will explain the adverse effects induced by antimalarial drugs.
67	Will explain the adverse effects induced by anthelmintic drugs.
68	Will explain the adverse effects induced by drugs used against ectoparasites.

Learning Outcomes

#	Learning Outcome
69	Will explain the adverse effects induced by antiviral drugs.
70	Will explain the adverse effects induced by antiseptics and disinfectants.
71	Will explain the adverse effects induced by cytotoxic drugs.
72	Will explain the adverse effects induced by hormones and hormone antagonists.
73	Will explain the adverse effects induced by antitussives, expectorants, mucolytic drugs, and surfactants.
74	Will explain the adverse effects induced by bronchodilators and other anti-asthmatic drugs.

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.