

Vocational School / Emergency and Medical Aid
2024 - 2025 Academic Year
PHARMACOLOGY in FIRST AID and EMERGENCY
Syllabus

Course Description					
Name	Code	Semester	T+A Hour	Credit	ECTS
PHARMACOLOGY in FIRST AID and EMERGENCY	İAY1213040	Spring Semester	2+0	2	2
Prerequisites Courses					
Recommended Elective Courses					
Language of Instruction	Turkish				
Course Level	Short Cycle (Associate's Degree)				
Course Type	Required				
Course Coordinator	Assoc.Prof. Ayşe Arzu ŞAKUL				
Name of Lecturer(s)	Lect. Bade Cevriye BAHTİYAR				
Assistant(s)					
Aim	The aim of the course is to teach the mechanisms of action, indications for use and doses, contraindications, possible adverse effects and drug interactions of pharmacological agents to be used in first and emergency aid.				
Course Content	This course contains; Introduction to the autonomic nervous system. ,Symphatomimetic agents, symphatolytic agents.,Parasympathomimetic agents, parasympatholytic agents.,Antihypertensive agents.,Drugs used in heart failure, drugs acting on the hematopoietic system.,The treatment of angina pectoris, peripheral vasodilators.,Agents used in cardiac arrhythmias, antihyperlipidemics.,Sedative-hypnotic drugs, anticonvulsant drugs.,The drugs used in the treatment of psychiatric disorders and Parkinson's disease.,Analgesics.,Anesthetic drugs, neuromuscular blocking drugs.,Adrenal corticosteroids, sex hormones.,Antidiabetic drugs, drugs that affect the thyroid gland.,Drugs and solutions used in emergency..				
Course Learning Outcomes			Teaching Methods	Assessment Methods	
Defines the analgesics and anesthetics.			10, 16, 19, 9	A	
Explains the pharmacodynamics of analgesics and anesthetics.			16, 19, 9	A	
Defines the mechanism of action of the analgesics and anesthetics.			10, 16, 19, 9	A	
Explains the autonomic and central nervous system medications.			16, 19, 9	A	
Explains the pharmacokinetics, pharmacodynamics, adverse effects, contraindications of autonomic and central nervous system medications.			10, 16, 19, 9	A	
Explains the mechanism of action of the autonomic and central nervous system medications.			16, 19, 9	A	
Explains the cardiovascular system medications.			10, 16, 19, 9	A	
Explains the pharmacokinetic, pharmacodynamics features of cardiovascular system medications.			10, 16, 19, 9	A	
Explains the mechanism of action of the cardiovascular system medications.			10, 16, 19, 9	A	
Teaching Methods	10: Discussion Method, 16: Question - Answer Technique, 19: Brainstorming Technique, 9: Lecture Method				
Assessment Methods	A: Traditional Written Exam				
Lecture Schedule					
Sequence	Topics	Preliminary Preparation			
1	Introduction to the autonomic nervous system.	Preparation for the lecture notes previously issued.			
2	Symphatomimetic agents, symphatolytic agents.	Preparation for the lecture notes previously issued.			
3	Parasympathomimetic agents, parasympatholytic agents.	Preparation for the lecture notes previously issued.			
4	Antihypertensive agents.	Preparation for the lecture notes previously issued.			
5	Drugs used in heart failure, drugs acting on the hematopoietic system.	Preparation for the lecture notes previously issued.			
6	The treatment of angina pectoris, peripheral vasodilators.	Preparation for the lecture notes previously issued.			
7	Agents used in cardiac arrhythmias, antihyperlipidemics.	Preparation for the lecture notes previously issued.			
8	Sedative-hypnotic drugs, anticonvulsant drugs.	Preparation for the lecture notes previously issued			
9	The drugs used in the treatment of psychiatric disorders and Parkinson's disease.	Preparation for the lecture notes previously issued.			
10	Analgesics.	Preparation for the lecture notes previously issued.			
11	Anesthetic drugs, neuromuscular blocking drugs.	Preparation for the lecture notes previously issued.			
12	Adrenal corticosteroids, sex hormones.	Preparation for the lecture notes previously issued.			
13	Antidiabetic drugs, drugs that affect the thyroid gland.	Preparation for the lecture notes previously issued.			
14	Drugs and solutions used in emergency.	Preparation for the lecture notes previously issued.			
Evaluation Methods			Weight(%)		
Midterm Exam			40		
General Exam			60		

Resources	
Goodman & Gilman'nın Tedavinin Farmakolojik Temeli - / Laurence L.Brunton - John S.Lazo - Keith L.Parker Nobel Tıp Kitapevleri Yayınları,İstanbul, 2008	
Katzung & Trevor's Pharmacology Examination and Board Review: Eighth Edition McGraw-Hill Medical Publishing USA, 2008.	
Rasyonel Tedavi Yönünden Tıbbi Farmakoloji 13. Baskı - Prof.Dr. Oğuz Kayaalp, Pelikan Yayınları, 2012.	
Sağlık Bilimleri için Farmakoloji- Dr. Öğr. Ü. A. Arzu SAYIN ŞAKUL, İstanbul Tıp Yayınevi-20211. Kayaalp, SO: Rasyonel Tedavi Yönünden Tıbbi Farmakoloji, Ankara	
2. Hardman JG, Limbird LE, Eds.: Goodman and Gilman's The Pharmacological Basis of Therapeutics, New York.	
3. Katzung & Trevor: Farmakoloji, Ankara.	