Name of discipline	Pharmacology			
Туре	Compulsory		Credits	8
Academic year	III		Semester	V-VI
Number of hours	Course	60	Laboratory work	50
	Seminar	40	Self-training	90
Component	Fundamental	1	6	
Course holder	Pogonea Ina, Corețchi Ianoș			
Location	Str. Testemițanu, 27, et. II			
Preconditions and	Program: basic knowledge in related disciplines such as: human			
requirements of:	anatomy, physiology, biochemistry, molecular biology, microbiology,			
	pathophysiology, morphopathology, internal diseases - semiology,			
	surgical diseases - semiology.			
	Abilities: basic digital (internet use, document processing, use of text			
	editors, electronic tables and presentation applications), communication			
	skills and teamwork.			
Aim of the	The main goal of this subject is to study the fundamental			
discipline		narmacokinetics and pharmacodynamics of drugs, their		
1 I	interaction with the human body, formation of knowledge about			
			ct administration, effective	-
	treatment of mul	tiple dise	eases and pathological cond	itions.
	Achieving	the goal	will allow you: the formation	on of a theorethical
	basis about dru	ugs; dev	veloping a logic way of	thinking for the
	application of th	e obtain	ed information; highlighting	g the importance of
	pharmacology as	s a medi	cal- biological discipline to	achieve a rational,
	effective and har	mless tro	eatment.	
	Knowledge	e about j	pharmacology and its contin	nuous perfection is
			medicine of the 21st ce	entury is a more
	personalized me			
Overview of the			eneral pharmacology. Drug	
topics			Drugs influencing the CNS.	
			systems. Drugs influenci	
		-	ystems. Antimicrobal and ar	
Outcomes			ying the discipline, the stude	ent will be able to:
	1	-	of classification of drugs;	
		particul	arities of prescribing drug	s in all forms of
	delivery;	.1	1 1	1 1
	• To know		general principles of	pharmacokinetics,
	 pnarmacogenetic Demonstrate 		armacodynamics;	
			ies to characterize d harmacokinetic properties	rug groups by
		-	1 1	rious discosses and
		-	the selection of drugs in va	allous diseases and
	pathological con		ial in resolving the tests, t	ables and problem
			r implementation in the rese	
Clinical skills			e and understanding:	
		-	•	d the principles of
	To define t drugs in diff		ture of the prescription and	a die principies of
	-			ubstance form and
			cept of raw drug material, su	uostance, form and
	nomenclatu	10,		

• To identify drug interactions and incompatibilities;
• To list the basic principles of general drug classification;
• To describe basic principles of general and special
pharmacokinetics, pharmacodynamics, chronopharmacology and
pharmacogenetics;
• To memorize the groups of drugs, the obligatory drugs with their
prescription in different medicinal forms;
• To list the classification, mechanism of action, effects, indications,
contraindications and side effects of groups of drugs and specific
drugs;
• To name the groups of drugs: definition, classification;
• To recognize the affiliation of the drugs to certain groups of
chemical compounds; pharmacodynamics of substances
(mechanism and site of action, effects, indications,
contraindications, side effects and toxicity), pharmacokinetics of
substances (route of administration, elimination), comparative
characteristics of drugs;
• To find possibilities of using drugs for medical purposes based on
the knowledges of their properties.
at application level:
• To select and prescribe drugs in different diseases and
pathological conditions;
• To demonstrate pharmacological effects in experimental studies;
• To implement the principles of cause and effect (dose-effect), benefit – injury;
 To solve tests and problematic cases;
 To be able to solve emergencies;
 To select the most effective ways of drug administration based on
their pharmacokinetic and pharmacodynamic properties,
preventing interaction, incompatability and complications of the
medical treatment;
• To apply rules of prescription and the prescription of drugs in all
their medical forms;
• To prescribe the medication of choice in various diseases and first
of all in states of emergency, and depending on the pathogen
agent, etc.;
• Apply the dosing principles and determine the routes of
administration of age-dependent drugs;
• To estimate pharmacogenetically which drugs pose a risk to the
patient in various enzymopathies;
• To estimate the clinical picture and the basic symptoms in drug
intoxications, first aid measures, antidotes and general principles
of treatment, methods of neutralization of the toxic absorbed in the
body and correction of disordered functions;
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• To sketch the biological standardization of the drugs;
• To use the concomitant administration of several drugs without
risk of incompatibility;

	 rhythms; To apply the theoretical knowledge to solve the situation problems, of the case - clinical problems; Expressly modify a drug with another drug substance in the same group to minimize side effects and perform effective treatment; To apply the method for determining the therapeutic index of the drug substance in experimental and clinical conditions, renal and hepatic clearance; To demonstrate the dose-effect relationship and the bioavailability of the drugs; To operate optimally in the provision of emergency assistance in situations of overdose or inadequate drug reactions. at the integration level: To assess the importance and role of pharmacology in the context of general medicine and its integration into related disciplines; To distinguish the correlations between physiological and pathological processes and pharmacological properties of drugs; To form basic principles of ethics and deontology in medical treatment (pharmacotherapy); To propose research programs to develop new drugs and study further known medical substances;
Evaluation form	
Evaluation form	Current assessments and final chain