Name of the	Sources and methods of obtaining of drugs			
discipline				
Type Veen of study	Optional II		Credits	2 III
Year of study Number of hours		15	semester Practical/laboratory work	111
Number of hours	course SEMINARS	30	Individual work	15
compound	Specialized	30	marviduai work	13
Course holder	PhD in Pharmaceutical Sciences, Associate Professor Uncu Livia			
location	Malina Mica, 66			
Prerequisites and	Program: knowledge of general, inorganic, organic chemistry, biological chemistry, physiology, molecular biology, microbiology. Competencies: Knowledge of chemical structures; physiological			
requirements of:				
	and pathological processes in the human body; biochemical			
	processes and biochemistry of xenobiotics; structure of biologically			
	1 /			ne tissues;
TP1 ' ' C.41	characterization of pathogenic microorganisms.			
The mission of the	Discipline that integrates the knowledge of fundamental and general disciplines and shows their practical value in the rational design and synthesis of the drug. Knowledge of the sources of obtaining, the			
discipline				
		U	the method, equipment and the pa	<i>O</i> ,
		_	bstances obtained, helps to und	
	_		drug, by forming cause-effect re	
			indispensable for activatio	
			try. At the same time, unders	
	particularities	of obtai	ning biological drugs correlates w	with the new
	_		formation of the professional s	kills of the
	future pharmacist.			
			the discipline is to provide st	
	knowledge about the sources of obtaining medicines, as well as			
	developing skills in understanding the processes and methods of			
	rational drug d	lesign.		
The topic presented		-	the creation of medicinal p	-
	_		the structure of the substance m	
		-	Sources and methods of obtaining	-
		-	and directed search. Principles	
			ds used. Sources, reagents, ap or obtaining synthetic drugs. Synt	-
		-	gs (inorganic, aliphatic, alicyclic	
	heterocyclic co	_		o, aromano,
	•	-	applied in chemical synthesis. Ser	mi-synthesis
			gents, apparatus and conditions n	-
	_		hesis of antibiotics. Biosynthetic	
			Plant and animal sources and a	methods for
	obtaining med			
			supplements of plant and ani	_
	_		Sources and particularities of ob-	_
	_		from animal extracts. Biologicand blood products. Vaccines. Imp	
	products.	טטטום מ	na oloou products. Vaccines. IIII	munological
Study purposes	 to know general methods and procedures for rational drug design, 			
The Post			rug action, biological drugs;	
	Tactors millu	chenig u	iug action, biological diugs,	

	 to determine the vegetable, mineral, and animal sources of obtaining medicines; to describe the steps of synthesis/extraction of compounds with a medicinal role; 		
	 be able to identify and avoid the main types of errors frequently encountered when obtaining medicines; to know the stages of drug development. 		
Purchased practical	• defining and characterizing all sources of obtaining medicines;		
skills	• knowledge of various methods of obtaining medicines: pure chemical		
	synthesis, semi-synthesis, extraction, biotechnologies, etc.		
	• communication skills, information accumulation and presentation.		
Evaluation form	End of semester exam		