Name of the discipline	Drug control			
Туре	compulsory		Credits	5
Year of study	V		semester	IX
Number of hours	course	26	Practical/laboratory work	52
	SEMINARS		Individual work	72
compound	Specialized			
Course holder	Dr. habilitated in pharmaceutical sciences, university professor			
	Valica Vladimir			
location	Malina Mica, 66			
Prerequisites and	Program: Pharmaceutical chemistry is a science with			
requirements of:	multidisciplinary prerequisites, combining knowledge of inorganic,			
	organic, analytical chemistry, physical-colloidal chemistry,			
	previously accumulated physical-chemical analysis methods, and			
	tounding other specialized disciplines such as pharmaceutical			
	technology, pharmacology and pharmacognosy, medicinal chemistry.			
	Skills: Knowledge of chemical structures; skills in working with			
	laboratory glassware and equipment; chemical and physico-chemical			
	analysis techniques; compliance with safety techniques in the			
	processing documents, using text editors, spreadshoots and			
	processing documents, using text editors, spreadsneets and			
The mission of the	The mission of the discipline Drug control is the formation of the			
discipline	methodology and strategy for drug analysis and control in accordance			
allocipillio	with the trends of continuous ontimization of analysis and control			
	methods and	methods and in accordance with general analytical strategies to		
	ensure the scientific and practical foundations of drug analysis and			
	control. The discipline provides students with knowledge of the			
	concepts of drug quality control, as well as the development of skills			
	in understanding the procedures, methods of drug analysis and quality			
	control, which ensure their effectiveness and harmlessness, for			
	qualitative pha	rmaceut	ical care of patients.	
The topic presented	Drug quality,	Drug quality, objectives and problems. Organization of drug control		
	in the Republic	c of Mol	dova. Current national and internat	ional norms
	regarding drug	g quality.		<b>61</b> 16 116
	Drug stability.	Drug de	egradation by various mechanisms	. Shelf life.
	Ways to solve	instabilit	y problems. General problems of d	rug analysis
	and control. G	eneral m	ethodology of analysis and contro	ol. Stages of
	Organoleptic	control	Determination of physical ch	amical and
	physico-chemi	ical prop	erties Chemical methods in drug	analysis and
	control Deter	mination	of identity purity and dosage	of drugs by
	chemical me	thods	Instrumental methods in dru	ig control
	Determination	of iden	tity, purity and dosage of drugs	by physico-
	chemical meth	hods. Sta	andardization of drugs. Normativ	e analytical
	documents regulating the quality of drugs.			
	Standardization and quality control of medicines. Counterfeiting of			
	medicines: ana	alytical a	nd control aspects.	Ũ
Study purposes	• have the	ability	and willingness to analyze d	rugs using
	chemical, physico-chemical and biological methods in			
	accordance with the requirements of the Pharmacopoeia (Ph.			
	Eur.);			
	• have the a	bility a	nd capacity to evaluate and in	terpret the

	results of drug analysis ;			
	• be able to prepare reagents for drug analysis in accordance with			
	requirements of the Pharmacopoeia (Ph. Eur.);			
	• have the ability and willingness to determine the			
	physicochemical characteristics of pharmaceutical forms,			
	including tablets, ointments, injectable solutions and others.			
	• to know the types of control required in the analysis of mast			
	forms and to record the results of the control;			
	• be able to carry out quality control of medicines according to			
	quality standards;			
	• have the ability and willingness to provide advice to medical			
	workers and consumers of medicines and other pharmaceutical			
	products in accordance with the rules on the storage of			
	medicines and other pharmaceutical products, taking into			
	account their physicochemical properties;			
	• to be able to work with scientific literature, to be able to search for			
	scientific information, to analyze the information obtained, to			
	transform the information found into a tool for solving professional			
	problems.			
Purchased practical	• assessing drug stability and selecting storage procedures;			
SK1IIS	• taking samples for analysis;			
	• performing chemical, physical and physico-chemical analyses;			
	• determining the identity of drugs through various pharmacopoeial			
	and alternative methods;			
	• determining the degree of purity of medicines;			
	• dosing of pharmaceutical substances and dosage forms by chemical			
	and physico-chemical methods;			
	• analysis of pharmaceutical excipients and packaging materials;			
	• knowledge and application of the requirements of regulatory acts			
	in the field of drug analysis and control;			
	• possession of a computer as a working tool in theoretical and			
	practical activity;			
	• establishing the correlation between the components of the analyst's			
	activity process.			
Evaluation form	Exam at the end of the semester.			