

Name of the discipline	<b>Analysis and quality control of packaging materials and excipients</b>		
Type	Free choice	Credits	2
Year of study	N	semester	quick
Number of hours	course	15	Practical/laboratory work
	SEMINARS	30	Individual work
compound	Specialized		
Course holder	Valica Vladimir, PhD in Pharmacy, University Professor		
location	Malina Mica, 66		
Prerequisites and requirements of:	Program: The discipline "Analysis and Quality Control of Packaging Materials and Excipients" requires multidisciplinary prerequisites, which combine knowledge from inorganic chemistry, organic chemistry, analytical chemistry and physical chemistry and correlate with other specialized disciplines such as pharmaceutical technology and drug control.		
	Skills: Knowledge of chemical structures; chemical and physico-chemical analysis techniques; chemical and physico-chemical analysis techniques; mathematical and statistical calculations; basic digital skills (use of the internet, document processing, use of text editors, spreadsheets and presentation applications), communication and teamwork skills.		
The mission of the discipline	The purpose of the discipline "Analysis and quality control of packaging materials and excipients" is to develop the methodology and strategy for the analysis and control of packaging materials and excipients in accordance with the trends in the continuous optimization of analysis methods. The discipline provides students with knowledge of the concepts of quality control of packaging materials and excipients, as well as the development of skills in understanding the procedures, methods of analysis and quality control of packaging materials and excipients, which ensure their effectiveness and harmlessness		
The topic presented	Risks related to the quality, safety and function of excipients and packaging materials. DAN requirements for packaging materials and excipients as raw materials. Chemical methods for analysis and quality control of packaging materials and excipients. Physico-chemical methods for analysis and quality control of packaging materials and excipients. Selection of storage procedures according to the type of packaging.		
Study purposes	<ul style="list-style-type: none"> <li>• have the ability and willingness to analyze excipients and packaging materials using chemical and physico-chemical methods according to quality standards ;</li> <li>• have the ability and capacity to evaluate and interpret the results of the analysis of excipients and packaging materials ;</li> <li>• be able to prepare reagents for the analysis of excipients and packaging materials in accordance with the requirements of the Pharmacopoeia (Ph. Eur.);</li> <li>• 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 the packaging material and the physicochemical properties of the active substances and excipients;</li> </ul>		

	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Purchased practical skills	<ul style="list-style-type: none"> <li>• taking samples for analysis;</li> <li>• analysis of pharmaceutical excipients and packaging materials;</li> <li>• knowledge and application of the requirements of regulatory acts in the field of drug analysis and control;</li> <li>• selecting drug storage procedures based on the type of packaging materials;</li> <li>• possession of a computer as a working tool in theoretical and practical activity;</li> <li>• establishing the correlation between the components of the analyst's activity process.</li> </ul>
Evaluation form	Exam.