

Name of discipline	<b>Informational Systems and Pharmaceutical Care</b>			
Type	Compulsory		Credits	3+1
Academic year	V		Semester	IX-X
Number of hours	Course	0+14	Practice work	39+16
	Seminar	-	Self-training	51+0
Component	Specialized			
Course holder	Adauji Stela, PhD, associate professor Priscu Vitalie, university assistant			
Location	Chisinau, str. Nicolae Testemițanu, 22, <i>Vasile Procopișin</i> University Pharmaceutical Center			
Conditionings and prerequisites of:	Program: knowledge of the nomenclature of pharmaceutical products and their classification; knowledge of the pharmacological action of drugs, the nomenclature of diseases and the use of drugs in their treatment; how to form prices for pharmaceuticals and parapharmaceuticals; knowledge of the literature sources of pharmaceutical and medical information			
	Competences: Having practical skills with personal computer. Use of different external data storage devices. Knowledge of medicines nomenclature and their classification. Knowing of pharmacological action of medicines, of disease nomenclature and use of medicines in their treatment. Mode of price formation for pharmaceutical and medical products. Knowledge of literature sources regarding pharmaceutical and medical information.			
Mission of the discipline	The main goal of discipline is to create a modern cultural informational foundation, acquiring of PC skills in local and global networks and principles of selection of professional information about medicines from different sources, organization of storage, processing and informational assistance of different users (doctors, pharmacists, public), assurance of the qualitative, efficient, safe, accessible and affordable pharmaceutical assistance.			
Overview of the topics	General notion of information. Pharmaceutical information. Official pharmacotherapeutic documents. Use of informational technologies in medication process. Automated informational systems on medicines circulation. Elaboration of documents regarding medicines circulation evidence. Information system "Evidence of Reimbursed Medicines". Databases (BDs) and the importance for practical work. The Importance of the e-Health Strategy for the Pharmaceutical System. OTC and Rx medicines - regulation. Pharmaceutical care – general aspects. Special pharmaceutical care: colds and flu. Special pharmaceutical care: gastrointestinal conditions. Special pharmaceutical care: gastrointestinal conditions: symptomatology in gastrointestinal minor ailments: constipation, hyperacidity, diarrhea, flatulence, dysbacteriosis, alimentary intoxication, hepato-biliary disorders, gastritis, peptic and duodenal ulcer, helminths prophylaxis and hemorrhoids. Special pharmaceutical care: dermatologic conditions: symptomatology of dermatological disorders – herpes, acne, mycosis, seborrhea, dandruff. Special pharmaceutical care: central nervous system conditions:			

	<p>symptomatology of central nervous disorders – headaches, anxiety, asthenia. Special pharmaceutical care: avitaminosis. Special pharmaceutical care: musculoskeletal conditions. Special pharmaceutical care: contraception. Special pharmaceutical care: combating excessive use of alcohol, smoking, drug abuse and addiction.</p>
<p>Outcomes</p>	<ul style="list-style-type: none"> <li>• acquisition of working skills in local networks and the Internet on remote access in the automated information system and evidence-based information;</li> <li>• study of the theoretical basis of information, medical and pharmaceutical information system. Acquisition of the legislation of the Republic of Moldova regulating the access to information;</li> <li>• acquisition of working skills with the sources of literature on pharmaceutical and medical information, selection of the necessary information on medicines in order to develop instructions for specialists and consumers;</li> <li>• acquiring the way of processing the pharmaceutical information at different levels and stages: the circulation of drugs in the Automated Information System "State Drug Nomenclature";</li> <li>• assimilation of the principles and modalities of application of the pharmaceutical guardianship and the provision of primary care services in the pharmacy for the diseases, the symptoms of which can be eliminated with the use of OTC drugs;</li> <li>• knowing the concept, the OTC list particularities and the pharmacist's responsibilities for the rational use of the drugs included in this list.</li> </ul>
<p>Clinical skills</p>	<ul style="list-style-type: none"> <li>• to apply the Automated Record System for the circulation of pharmaceutical and parapharmaceutical products in wholesale and retail pharmaceutical enterprises;</li> <li>• to apply pharmaceutical care in the practice of the community pharmacist;</li> <li>• to assess the symptoms in case of TGI: constipation; hyperacidity; diaries; flatulence; dysbacteriosis; food poisoning; diseases of the hepato-biliary tract; gastritis; peptic and duodenal ulcer; helminth prophylaxis; hemorrhoids;</li> <li>• to appreciate the symptoms in case of colds - sore throat, rhinitis, cough, weakness, fever;</li> <li>• to apply various methods of prophylaxis of cold conditions;</li> <li>• to appreciate the symptoms in case of dermatological diseases - herpes; acne; mycoses; seborrhea, dandruff. Medicines used in the treatment of symptoms;</li> <li>• to provide pharmaceutical care in case of microtraumas (skin lesions, blows, scratches) and burns, frostbite;</li> <li>• to appreciate the symptoms of central nervous system disorders - headache, anxiety, asthenia;</li> <li>• to apply the measures of prophylaxis of CNS diseases;</li> <li>• to appreciate the symptoms of avitaminosis, anemia and hypiodysmism;</li> <li>• apply avitaminosis prophylaxis measures;</li> </ul>

	<ul style="list-style-type: none"><li>• to assess the symptoms in case of diseases of the locomotor system - arthralgias and myalgia, osteoarthritis, osteoporosis;</li><li>• to assess the risk groups in case of diseases of the musculoskeletal system;</li><li>• to highlight the patient's problem with the assessment of the diagnosis and the possibility of applying treatment with OTC drugs.</li></ul>
Evaluation form	Exam