

**Thematic plan of seminars  
in the discipline "Medical and pharmaceutical commodity science"  
for students enrolled  
in the 2022 educational program  
33.05.01 Pharmacy,  
specialty,  
full-time education  
for the 2024-2025 academic year**

№	Thematic blocks	Hours (academic)
5 семестр		
1.	Commodity science as a science.1 Historical aspects. The subject and objectives of medical commodity science in the professional activity of a pharmacist. Theoretical foundations of medical and pharmaceutical commodity science.2	1
	Terminology.1 Definition of basic terms and concepts.2	1
2.	The use value of the product.1 The usefulness of pharmaceutical products. Use and exchange value2.	1
	Consumer properties of medical and pharmaceutical products.1 Consumer properties that determine the quality of medical and pharmaceutical products.2	1
3.	Factors influencing the formation and preservation of consumer properties of medical and pharmaceutical products.1	1
	Classification of goods, system, methods of classification1. Classification coding methods. Hierarchical and faceted classification methods.2	1
4.	The use value and quality of pharmaceutical and medical products.1 Quality as a philosophical category. The relationship of use value with the quality of the product. 2	1
	The quality of medical and pharmaceutical products and its properties. Quality indicators. Requirements for medical and pharmaceutical products. 2	1
5.	Quality assurance at the stages of the "life cycle" of medicines and medical products.1 Technical regulation, licensing of production and circulation of medical products. The State system of standardization and certification of medical and pharmaceutical products.2	1
	Standards. Regulatory documentation. Types of standards and regulatory documentation.1 Regulatory documentation for medicines. Methods of product quality control. Methods for evaluating the quality of medical devices.2	1
6.	Materials Science 1. Classification, properties, requirements for materials for medical devices.	1
	Metal materials. Metals and their alloys.1 Types of alloys Methods for the production of medical products from metals.1 The concept of a technological process.2	1
7.	Non-metallic materials.1 Types, general characteristics. Marking of materials. Glass and ceramic materials used in the manufacture of medical devices. 2	1
	Polymer materials. The concept, classification and application.1 Rubbers and rubbers, plastics. 2	1
8.	Corrosion and anticorrosive protection.1 Methods of protection from environmental factors to preserve the consumer properties and quality of medical and pharmaceutical products.2	1

	Factors that preserve the consumer properties and quality of medical and pharmaceutical products.1 Classification and basic packaging requirements. The main elements of the package.	1
9.	Packaging quality indicators (functional, ergonomic, aesthetic).1 Requirements for packaging materials and closures. Environmental aspects of packaging. 2	1
	Containers and packaging materials.1 General characteristics. Classification.2	1
10.	Labeling of medicines.1 General and specific requirements for labeling of medicines. 2	1
	Storage and transportation of medicines.1 General requirements for the storage and transportation (transportation) of medicines.2	1
11.	Control of knowledge and skills in thematic blocks 1-10 (1 part)	1
	Control of knowledge and skills in thematic blocks 1-10 (Part 2)	1
12.	Commodity analysis of medical and pharmaceutical products,1 functions, goals and objectives. Features of commodity analysis of medical and pharmaceutical products. Commodity analysis and commodity expertise.2	1
	Acceptance of medical and pharmaceutical products: general provisions.1 Acceptance of goods in terms of quantity and quality.2	1
13.	The procedure for registration and conclusion of contracts and contracts with suppliers. 1.2	1
	Movement of goods, sales, special conditions for the supply of medical products, claims.1.2	1
14.	Commodity analysis of medicines.1 The main stages, methods of implementation.	1
	Registration of the results of the commodity analysis.2	1
15.	Commodity analysis of sanitary and hygienic products, personal hygiene items and products, dressings and products made from them, items and products intended for patient care1.	1
	The main stages and methods of commodity analysis. Registration of the results of the commodity analysis.2	1
16.	Commodity analysis of specialized food products - products of therapeutic, children's and dietary nutrition, biologically active additives.1	1
	The main stages and methods of implementation. Registration of the results of the commodity analysis.2	1
17.	Final testing	2
18.	Assessment of practical skills	2
	Credit with an assessment	2
	Total	38

<sup>1</sup> -Subject

<sup>2</sup> - essential content

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Head of the Department,  
Doctor of Pharmacy



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