

**Thematic lesson plan of lectures
in the discipline "Organic Chemistry"
for students of 2025 the educational program
specialist in the specialty 33.05.01 Pharmacy,
direction (profile) Pharmacy,
form of study full time
for the 2025-2026 academic year**

№	Темы занятий лекционного типа	Часы (академ.)
2 SEMESTER		
1.	The structure and classification of organic compounds. ¹ The Butlerov`s theory of organic compounds structure. Types of isomerism: structural isomerism and stereoisomerism. ²	2
2.	Classification of organic reactions. Substitution reactions. The free-radical chain mechanism (S _R). Nucleophilic substitution mechanisms ² . The mechanism of electrophilic aromatic substitution S _E ²	2
3.	Classification of organic reactions. ¹ Elimination reaction mechanism E ₁ and E ₂ . Substitution and elimination in competition. ² Mechanisms of addition (free-radical, nucleophilic, electrophilic). ²	2
3 SEMESTER		
4	Aldehydes and ketones. ¹ Preparation, classification, structure, nomenclature, chemical properties of aldehydes and ketones ² .	2
5	Carbohydrates. ¹ Preparation, classification, structure, nomenclature, chemical properties of monosaccharides, disaccharides, polysaccharides ² .	2
6	Nucleic acids. ¹ The general structure of nucleic acids. The primary and secondary structure of nucleic acids. ²	2
	Total	6

Considered at the meeting of the department of chemistry "30" may 2025, protocol N10.

Head of the Department

A.K. Brel'