

ABSTRACT OF ELECTIVE COURSE

BIOCHEMISTRY OF NUTRITION

*for training specialists of the second (master's) degree of higher education
educational qualification "master's degree of Pharmacy"*

*field of knowledge 22 "Healthcare"
specialty 226 "Pharmacy, industrial pharmacy"*



Abstract of the discipline: EIC 19 "Biochemistry of Nutrition" belongs to the cycle of disciplines of natural science (fundamental) training of specialists in specialty 226 "Pharmacy, Industrial Pharmacy".

Number of ECTS credits – 3. Final **examination** – credit test.

Objectives: To form special professional competencies necessary for understanding modern ideas about biochemical processes related to the intake and digestion of nutrients in the body to provide it with energy and structural components in order to implement any physiological function. The discipline is a connecting link between theoretical and clinical disciplines that form the profile of a Master of Pharmacy.

Main objectives: to acquire knowledge, skills and abilities in the field of biochemistry of balanced nutrition; to form a system of knowledge about macronutrients and micronutrients, their nutritional value, biochemical mechanisms of digestion, absorption and elimination; to understand the biochemical role of microelements, types and causes of micronutrient deficiencies; to know traditional and modern biochemical markers for assessing nutritional status and disorders of nutrient metabolism in the human body; to understand the concept of food additives and their importance in medicine.

Competencies that the discipline contributes to:

- Integral competence (IC): - The ability to solve problems and understand and solve practical problems of a research and innovation nature in the field of pharmacy.

- General competences (GC):

GC 02. Ability to abstract thinking, analysis and synthesis.

GC 03. Knowledge and understanding of the academic subject and professional activity.

Special (Professional, subject) competencies (SC):

SC 01. Ability to collect, give an explanation and apply data necessary for professional activities, conduct research and implement innovative projects in the field of pharmacy.

SC 07. Ability to conduct sanitary and educational work among the population in order to prevent common diseases, prevent dangerous infectious, viral and parasitic diseases. The ability to timely detect these diseases, maintain adherence to treatment in accordance with their medical, biological, and microbiological characteristics.

Learning program outcomes

LPO 01. Apply specialized knowledge, skills and abilities from general and professional disciplines in professional activities.

LPO 02. Critically reflect on scientific and applied problems in the field of pharmacy.

LPO 07. Demonstrate the ability to independently search, analyze and synthesize information from various sources, including professional literature, patents, databases; evaluate this information using statistical analysis; apply search results to solve typical and complex specialized tasks of professional activity, including the development and production of medicines.

LPO 15. Formulate, argue, clearly and specifically convey to specialists and non-specialists, higher education students information based on their own knowledge and professional experience, the main trends in the development of world pharmacy and related industries.

Developer: Department of Medical and Biological Chemistry (Head of department, profesor, d.med.s. Andriy MELNYK)