The name of the academic discipline: "Molecular-genetic methods of analysis of biological objects"

Specialty code and name	1-80 02 01 Biomedical Science
Year of study	4
Semester of study	7
Number of in-class	48
academic hours:	
Lectures	24
Seminar classes	-
Practical classes	12
Laboratory classes	12
Form of the current	exam
assessment (<i>credit</i> /	
graded credit /exam)	
Number of credit points	3
Competences	Mastering the academic discipline "Molecular-genetic methods of analysis of biological objects" should ensure the formation of specialized competencies: being able to apply modern knowledge about the basics of biotechnological and biomedical production, genetic engineering, nanobiotechnology, molecular modeling.

Summary of the academic discipline:

The academic discipline "Molecular-genetic methods of analysis of biological objects" is closely related to such disciplines as "Genetics", "Microbiology", "Molecular biology", "Genetic engineering", "Biochemistry", "Immunology", "Biotechnology", and examines the main approaches that allow a comprehensive study of the structure and functions of the genetic material of living organisms (plants, animals, fungi, bacteria, viruses, humans). Analysis of genotypes as a complex open integral system of interacting genetic determinants, taking into account the peculiarities of the organization of biological objects, allows not only to study the nature of genes, but also to manipulate them for the purposeful design of organisms with specified properties for biotechnological use.