

COURSE DESCRIPTOR

№	Topic	Total, hours	Lectures, hours	Workshops (seminars), hours	Labs, hours	Self-study of the material, hours	Individual tasks, hours
full-time course form of study							
Module 1. Methodology of scientific research							
1	General scientific aspects of research methodology.	5	0	2	0	3	0
2	Specific research methods and their application.	5	0	2	0	3	0
3	The motivation of scientific research. Methods of analysis of the literature selected for research.	5	0	2	0	3	0
4	Criteria for evaluating the methodological quality of the study.	5	0	2	0	3	0
5	Types of scientific data and methods of their calculation.	5	0	2	0	3	0
6	Description of scientific research.	5	0	2	0	3	0
Module 2. General research methods in medicine							
1	Histopathological research methods.	5	0	2	0	3	0
2	Biochemical methods in scientific research.	5	0	2	0	3	0
3	The use of cell cultures in scientific research.	5	0	2	0	3	0
4	Methods of microbiological laboratory diagnostics.	5	0	2	0	3	0
5	Methods of molecular genetic research.	5	0	2	0	3	0
Module 3. Specific research methods in medicine							
1	Methods for assessing the mechanical and physicochemical properties of biomaterials for medical purposes.	5	0	2	0	3	0
2	Visualization of the surface of biological objects.	5	0	2	0	3	0
3	Introduction of new methodological approaches to the development and study of nanomaterials for medical purposes.	5	0	2	0	3	0
Module 4. Arrangement and carrying out of independent research							
1	Arrangement of an independent research project.	5	0	2	0	3	0

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2	Conducting own research within the planned project.	5	0	2	0	3	0
3	Evaluation of the obtained research results and formation of conclusions.	5	0	2	0	3	0
4	Graded test	5	0	2	0	3	0
<i>Total (full-time course form of study)</i>		<i>90</i>	<i>0</i>	<i>36</i>	<i>0</i>	<i>54</i>	<i>0</i>