

**Study programme****Part A) of the study programme \*****Learning outcomes**

<b>Faculty offering the field of study:</b>		<b>Faculty of Chemistry (the leading faculty)</b> <b>Faculty of Biological and Veterinary Sciences</b>
<b>Field of study:</b>		<b>Medical Chemistry</b>
<b>Level of study:</b>		<b>First-cycle studies</b>
<b>Level of the Polish Qualification Framework:</b>		<b>Level 6</b>
<b>Profile:</b>		<b>General academic</b>
<b>Professional degree awarded to the graduate:</b>		<b>Licencjat</b>
<b>Allocation of the field of study within academic or artistic discipline(s), to which learning outcomes for a given field of study refer::</b>		<b>Disciplines:</b> <b>Chemical Sciences (75.6%)</b> <b>Biological Sciences (24.4%)</b>  <b>Major discipline: Chemical Sciences</b>
<b>Symbol</b>	<b>Upon completion the graduate achieves the learning outcomes specified below:</b>	
<b>KNOWLEDGE</b>		
K_W01	The graduate has knowledge of major fields of chemistry, uses relevant terminology and nomenclature valid in chemistry.	
K_W02	The graduate knows the basics of mathematical analysis, statistics and IT methods necessary for the description of chemical and biological phenomena, and for data elaboration.	
K_W03	The graduate has advanced knowledge of biological and chemical sciences used in biomedical research and describes basic physical, chemical and biological phenomena occurring in a living organism.	
K_W04	The graduate knows theoretical and practical aspects of research methods, techniques and tools used in chemical and biological analyses.	
K_W05	The graduate knows basic methods of synthesis, isolation and analysis of chemical compounds, including biologically active ones.	
K_W06	The graduate knows relations between the structure and activity of chemical compounds, including biologically active compounds.	
K_W07	The graduate knows methods of synthesising organic and inorganic compounds and their properties.	
K_W08	The graduate defines terms and explains mechanisms underlying physiological and pathological processes in the human body.	
K_W09	The graduate knows legal regulations pertaining to standards and requirements binding in chemical laboratories as well as legal regulations concerning toxic substances, their storage and labelling.	
K_W10	The graduate knows primary field literature in Polish and in a foreign language in a selected specialisation.	

K_W11	The graduate has knowledge enabling the understanding of basic problems related to the field of study.
<b>SKILLS</b>	
K_U01	The graduate is able to analyse and solve chemical and biological problems on the basis of the knowledge acquired.
K_U02	The graduate is able to use mathematical methods in chemistry and natural sciences and uses them to describe the properties and structures of compounds.
K_U03	The graduate is able to use basic knowledge of chemical and biological sciences in biomedical research, and describes basic phenomena occurring in a living organism.
K_U04	The graduate is able to plan an experiment and to use research appliances and equipment intended for the accomplishment of a given research task.
K_U05	The graduate is able to use basic analytical methods used in chemical and biomedical sciences and is able to develop experimental results.
K_U06	The graduate is able to synthesise and analyse chemical compounds, including biologically active compounds.
K_U07	The graduate is able to describe the structure and functions of macromolecular compounds occurring in living organisms.
K_U08	The graduate is able to describe and present chemical and biological issues using a specialist language.
K_U09	The graduate is able to expand the knowledge of a selected specialisation on their own.
K_U10	The graduate is able to understand and assess threats to human life and health and ethical determinants of a selected specialisation.
K_U11	The graduate displays language skills in a foreign language at the B2 level as stipulated in the Common European Framework of Reference for Languages; the graduate is able to seek information in the field literature.
<b>SOCIAL COMPETENCES</b>	
K_K01	The graduate understands the need for constant development and improvement of professional competences.
K_K02	The graduate is able to organise work, and strives at accomplishing entrusted tasks.
K_K03	The graduate is able to adequately specify priorities in order to plan and accomplish a given task.
K_K04	The graduate identifies and solves problems related to the profession.
K_K05	The graduate knows and respects rules and standards, and takes care of their health and the natural environment.
K_K06	The graduate understands ethical and social aspects of practical application of the acquired knowledge and skills.