

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

<b>Faculty offering the field of study:</b>	<b>Faculty of Chemistry</b>
<b>Field of study:</b>	<b>Forensic Chemistry</b>
<b>Level of study:</b>	<b>Second-cycle studies</b>
<b>Level of the Polish Qualification Framework:</b>	<b>Level 7</b>
<b>Profile:</b>	<b>General academic</b>
<b>Professional degree awarded to the graduate:</b>	<b>Magister</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: Chemical Sciences (100%) 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 extended general knowledge of chemistry that forms solid theoretical grounds for education in forensic chemistry; knows main development trends concerning the application of chemical methods in forensic science
K_W02	The graduate knows and understands legal grounds as well as positive and negative aspects of applying chemical methods in forensic science, including protection of copyright
K_W03	The graduate knows and understands, to an advanced extent, theories, methods and instrumental measurement techniques used in forensic chemistry as well as their importance for the development of science and natural sciences, world cognition and development of humankind
K_W04	The graduate knows current development trends and most recent achievements related to forensic chemistry.
K_W05	The graduate knows and understands ethical determinants as well as the risk and responsibility connected with research in forensic chemistry.
<b>SKILLS</b>	
K_U01	The graduate is able to use knowledge of chemical methods in forensic science, correctly select analytical and instrumental methods that are used in forensic science; is able to develop, present and creatively interpret research results
K_U02	The graduate is able to communicate on issues related to forensic science while studying and preparing the diploma thesis. The graduate is able to elaborate on research results in Polish and in a foreign language on the B2+ level and has language skills enabling to deliver oral presentations in forensic chemistry
K_U03	The graduate is able to work in a team, undertake commitments and coordinate the team work
K_U04	The graduate is able to plan on their own, accomplish and expand knowledge of chemical methods applied in forensic research

K_U05	The graduate is able to use basic measurement techniques and research tools; carries out observations, plans and performs tests; finds solutions to problems relying on the issues in forensic chemistry
K_U06	The graduate is able to critically evaluate results of analyses, discuss measurement errors and use a relevant software package relevant to perform a statistical analysis of an experiment
K_U07	The graduate is able to use the acquired knowledge of forensic chemistry to related scientific fields and disciplines
<b>SOCIAL COMPETENCES</b>	
K_K01	The graduate is able to formulate and present opinions on chemical problems in forensic studies and is aware of the importance of the knowledge acquired in solving problems
K_K02	The graduate is able to think and act as an entrepreneur, understands ethical and social aspects of the practical application of acquired knowledge and skills
K_K03	The graduate is prepared to undertake actions on their own; solves problems related to the profession of a chemist in a research laboratory