

Doctoral School at the Maria Grzegorzewska University

LEARNING OUTCOMES

Reference to the universal level characteristics of the Polish Qualification Framework (PQF)		
Graduate of the doctoral school		PQF effect symbol
knows and understands:	the world's scientific and creative achievements and the resulting implications for practical applications.	P8U_W
can:	analyze and creatively synthesize scientific and creative achievements to identify and solve research problems and issues those related to innovative and creative activities; create new elements based on these achievements; independently plan their own development and inspire the development of others; participate in the exchange of experiences and ideas, including in an international environment.	P8U_U
is ready to:	carry out independent research expanding the existing scientific and creative achievements, taking on challenges in the professional and public sphere with consideration of: <ul style="list-style-type: none">– their ethical dimension,– responsibility for their consequences and the shaping of models of appropriate conduct in such situations.	P8U_K

Reference to second-level characteristics		
Symbol of the learning outcome	LEARNING OUTCOMES obtained as part of the doctoral school	Symbol of the second-cycle characteristics learning outcome
	Graduate of the doctoral school	
KNOWLEDGE		
SD_W01	the student knows and understands, to an extent enabling the revision of existing paradigms, the global achievements, including theoretical foundations, general issues, and selected topics relevant to the scientific discipline;	P8S_WG
SD_W02	the student knows and understands major trends in the development of scientific disciplines relevant to their education;	P8S_WG
SD_W03	the student knows and understands the methodologies of scientific research;	P8S_WG
SD_W04	the student knows and understands the principles of disseminating scientific research results, including through open access;	P8S_WG
SD_W05	the student knows and understands the fundamental dilemmas of modern civilization;	P8S_WK
SD_W06	the student knows and understands the economic, legal, ethical, and other significant determinants of scientific activity;	P8S_WK
SD_W07	the student knows and understands the basic principles of knowledge transfer to the economic and social spheres and the commercialization of research results and associated know-how;	P8S_WK
SKILLS		
SD_U01	the student is able to apply knowledge from various fields of science to creatively identify, define, and innovatively solve complex problems or carry out research-related tasks, in particular: <ul style="list-style-type: none"> - define the purpose and subject of scientific research, formulate a research hypothesis, - develop research methods, techniques, and tools and apply them creatively, - draw conclusions based on scientific research results; 	P8S_UW

SD_U02	the student is able to critically analyze and assess the results of scientific research, expert activities, and other creative work, as well as their contribution to the development of knowledge;	P8S_UW
SD_U03	the student can transfer research results to the economic and social spheres;	P8S_UW
SD_U04	the student is able to communicate on specialized topics to a degree that allows active participation in the international scientific community;	P8S_UK
SD_U05	the student can disseminate research results, including in popular forms;	P8S_UK
SD_U06	the student is able to initiate debate;	P8S_UK
SD_U07	the student can participate in scientific discourse;	P8S_UK
SD_U08	the student can speak a foreign language at the B2 level according to the Common European Framework of Reference for Languages to the extent necessary to participate in international scientific and professional environments;	P8S_UK
SD_U09	the student can plan and implement individual and team research or creative projects, including in an international setting;	P8S_UO
SD_U10	the student can independently plan and take action for their own development and inspire and organize the development of others;	P8S_UU
SD_U11	the student can plan and deliver courses or groups of classes using modern methods and tools.	P8S_UU
SOCIAL COMPETENCIES		
SD_K01	the student is ready to critically assess achievements within a given scientific discipline;	P8S_KK
SD_K02	the student is ready to critically evaluate their own contribution to the development of a particular scientific discipline;	P8S_KK
SD_K03	the student is ready to recognize the importance of knowledge in solving cognitive and practical problems;	P8S_KK
SD_K04	the student is ready to fulfill the social obligations of researchers;	P8S_KO
SD_K05	the student is ready to initiate action for the public interest;	P8S_KO
SD_K06	the student can think and act resourcefully;	P8S_KO

SD_K07	<p>the student is ready to uphold and develop the ethos of research and creative communities, including by:</p> <ul style="list-style-type: none"> - conducting scientific work independently, - respecting the principle of public ownership of research results, taking into account the principles of intellectual property protection. 	P8S_KR
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