

**Description of the assumed learning outcomes for the field of study****Name of the field of study: MEDICINE OF PLANTS****Level of education: first-cycle studies****Profile of education: general-academic****Form of study: full-time studies****Area/areas of education: area of agricultural, forestry and veterinary sciences****Field (s) of science and scientific disciplines to which learning outcomes apply:**

fields of science: agricultural sciences, disciplines: gardening, agronomy

The description of the assumed learning outcomes takes into account the universal first level characteristics for level 6 defined in the Act of 22 December 2015 on the Integrated Qualification System (Journal of Laws of 2016, items 64 and 1010) and second level characteristics for level 6 defined in Regulation of the Minister of Science and Higher Education of September 26, 2016 on the characteristics of the second degree of the Polish Qualification Framework typical for qualifications obtained under higher education after obtaining full qualification on level 4 - levels 6-8 (Journal of Laws of 2016, item 1594), including selected learning outcomes relevant to the area or areas of education to which the field of study was assigned.

Description of the assumed learning outcomes for qualifications at level 6 of the Polish Qualifications Framework.

<b>Symbols of learning outcomes for the field of study</b>	<b>Directional learning outcomes</b>	<b>Reference to the second-order PRK characteristics</b>	<b>Reference to learning outcomes relevant to the area / areas of education</b>
<b>KNOWLEDGE</b>			
<b>The graduate knows and understands:</b>			
MR_W01	concepts/issues and mechanisms of functioning of natural phenomena in the scope of the field of study in biology, chemistry and biochemistry, genetics and biotechnology of plants and related sciences and processes occurring in plants and soil environment	P6S_WG	P6S_WG1
MR_W02	principles of application and division of methods, techniques and technologies of cultivation and reproduction of plants as well	PS6_WK	P6S_WG4

	as methods and techniques in plant protection.		
MR_W03	principles of balanced fertilization of plants; has knowledge about the symptoms of deficiency or excess nutrients of plants and diseases caused by abiotic factors.	P6S_ WG PS6_ WK	P6S_ WG1 P6S_ WG4
MR_W04	the role and importance of the natural environment, its threats and rational use in the aspect of integrated plant protection.	PS6_ WK	P6S_ WG2
MR_W05	general issues concerning the construction, functioning, biology and development of basic groups of pests and beneficial organisms and their interrelationships.	P6S_ WG	P6S_ WG1 P6S_ WG2
MR_W06	rules for the identification and classification of different groups of living organisms; methods of collection, preservation, preparation and breeding of selected pathogens and pests as well as techniques used in phytopathological and entomological diagnostics.	PS6_ WK	P6S_ WG1
MR_W07	concepts / regulations in the field of protection of intellectual property and copyright law as well as issues in the field of economics, law and social knowledge adapted to the forms of activity in agriculture, horticulture and forestry.	P6S_ WG PS6_ WK	P6S_ WK
MR_W08	goals and functions of organizational structures of protection and quarantine of plants, their contemporary problems as well as technical engineering tasks, adapted to the field of study.	PS6_ WK	P6S_ WG3
MR_W09	the importance of living organisms in the economy and human life.	P6S_ WG	P6S_ WG2
MR_W010	principles of safe conduct at the workplace and counteracting hazards resulting from the use of plant protection products.	PS6_ WK	P6S_ WG4
MR_W011	threats resulting from contamination of agricultural products and methods of their prevention.	P6S_ WG	P6S_ WG3 P6S_ WG4
MR_W012	concepts and principles of using contemporary information and communication technologies	PS6_ WK	P6S_ WG4
<b>SKILLS the graduate can:</b>			
MR_U01	search, analyze and use the necessary information from various sources in the field of basic and directional subjects.	P6S_ UW	P6S_ UW1

			P6S_UW3
MR_U02	prepare a written paper and present an issue from the field of plant medicine, communicate with various entities in spoken and written forms	P6S_UK	P6S_UW1 P6S_UW2
MR_U03	perform simple conceptual, practical or design tasks in the field of agricultural and forestry sciences tailored to the field of study; correctly interpret the results and draw conclusions by training throughout life.	P6S_UW P6S_UK P6S_UU	P6S_UW2
MR_U04	analyze biological processes occurring in soil and plants and interpret phenomena and factors determining the size of the population of living organisms, as well as their impact on the environment.	P6S_UW	P6S_UW3
MR_U05	use the knowledge of methods and technologies used in the cultivation and protection of horticultural, agricultural and forest plants.	P6S_UW P6S_UK	P6S_UW3
MR_U06	apply the acquired knowledge for the good of man and the environment.	P6S_UW	P6S_UW3
MR_U07	identify and classify living organisms, diagnose pests and apply appropriate methods of plant protection.	P6S_UW	P6S_UW1 P6S_UW3
MR_U08	act as consultants in order to obtain high-quality gardening and agricultural products and make decisions regarding ensuring phytosanitary security while maintaining the principles of environmental protection and rational management.	P6S_UW P6S_UK	P6S_UW3
MR_U09	use legal documents, carry out a basic economic analysis and consciously plan and organize independent and team work and development of activities related to plant production.	P6S_UW P6S_UO	P6S_UW1 P6S_UW3
MR_U10	recognize the basic taxa of horticultural, agricultural and forest plants and use their utility values for animal and human health as well as the human economy while maintaining the principles of environmental protection.	P6S_UW	P6S_UW3
MR_U11	properly choose and apply equipment and apparatus for detecting and forecasting the appearance of pathogens and pests and for performing plant protection treatments.	P6S_UW	P6S_UW1 P6S_UW2

MR_U12	use the knowledge gained during conducting trainings, expert opinions and running consultancy in the field of plant health protection.	P6S_ UK P6S_ UO	P6S_ UW3
MR_U13	use a foreign language in the professional environment and everyday life situations in the field of the scientific discipline represented, in accordance with the requirements set for the B2 level (CEFR) level.	P6S_ UK	P6S_ UW2
<b>SOCIAL COMPETENCE</b>			
<b>the graduate is prepared for:</b>			
MR_K01	social, professional and ethical responsibility for the quality of plant products and the condition of the natural environment; is aware of the importance of the principles of good agricultural practice in integrated crop production.	P6S_ KK P6S_ KO	X
MR_K02	constant training and self-improvement and dissemination of knowledge in the field of plant protection.	P6S_ KO P6S_ KR	X
MR_K03	acting in an entrepreneurial and responsible manner; predicts the effects of decisions and is aware of their risks.	P6S_ KO	X
MR_K04	determining priorities and mechanisms serving the implementation of objectives in the field of the profession, noticing the natural, economic and ethical effects of the activity.	P6S_ KK P6S_ KR	X