

Description of learning outcomes in relation to the characteristics of the second-cycle programme of the Polish Qualifications Framework for qualifications including engineering competences - level 6

The name of the field of study: **Садоводство / Horticulture**

Level of education: first-cycle programme, full-time studies

Profile of education: practical

Symbol of the learning outcomes for the field of study	Learning outcomes leading to obtaining engineering competences for the field of study <b>Садоводство / Horticulture</b> – practical profile	A reference to the characteristics of the second-cycle programme of the Polish Qualifications Framework for qualifications including engineering competences – level 6
<b>KNOWLEDGE</b>		
<b>The graduate knows and understands:</b>		
OGP_W05	a basic understanding of economics, law and social science adapted for the forms of activity in horticulture.	P6S_WK
OGP_W06	a basic knowledge of natural and economic factors determining horticultural production, as well as the form, functioning and development of rural areas.	P6S_WK
OGP_W08	basic technologies of horticultural production and the principles of adapting them to natural and economic conditions	P6S_WG
OGP_W09	principles of functioning and operation of equipment, facilities and technical systems utilised in horticulture	P6S_WG
OGP_W12	contemporary problems of horticultural production and technical assumptions of engineering tasks in this field	P6S_WG
OGP_W13	basic principles of creating, managing and functioning of horticultural enterprises and farms	PS6_WK
OGP_W14	principles of intellectual and industrial property protection, and copyright law, especially in relation to horticulture	PS6_WK
OGP_W15	basis of ergonomics and legal protection of work, health and safety regulations, hazards in gardener's working environment and methods of their limitation	PS6_WK
<b>SKILLS</b>		
<b>the graduate can:</b>		

OGP_U01	search, analyze and apply the necessary information from various sources and databases in the field of horticulture and related sciences, create documents and presentations, apply advanced information and communication techniques, independently plan own learning and organize a teamwork	P6S_UW
OGP_U02	practically use knowledge in the field of intellectual and industrial property, assess the workplace in the aspect of ergonomics and occupational health and safety, use the available workplace hazard prevention methods in horticulture	P6S_UW
OGP_U03	apply microtechnical, microscopic and analytical methods in the identification and assessment of living organisms and their reproduction for the needs of horticulture	P6S_UW
OGP_U05	assess the physical, chemical and biological properties of soil, determine the richness of soil, substrates and plant nutritional status and the condition of horticultural crops in order to obtain high-quality horticultural produce while maintaining the principles of environmental protection and rational management	P6S_UW
OGP_U07	adapt the time, method and conditions of cultivation and care treatments to the species and the purpose of the horticultural crops yield	P6S_UW
OGP_U08	choose the cultivation techniques and methods and parameters of horticultural products storage to provide the longest high quality preservation	P6S_UW
OGP_U09	perform an assessment of the nursery material, budding and grafting of orchard plants	P6S_UW
OGP_U10	form and prune fruit trees and shrubs; regulate their fruiting and yield	P6S_UW
OGP_U11	choose varieties of plants for commercial, industrial, ecological and home orchards	P6S_UW
OGP_U13	diagnose diseases and pests of horticultural plants, identify agrofags, use beneficial organisms, assess the hazards and the extent of damage caused by agrofags and design a program to limit them to ensure high quality horticultural crops and consumer safety while maintaining biological balance	P6S_UW
OGP_U14	identify weeds and apply methods to regulate weed growth and protect crops against agrofags while maintaining the principles of sustainable use of biological diversity	P6S_UW
OGP_U15	select, apply and optimize basic techniques and technologies used in horticulture, including modern methods of breeding, reproduction, cultivation,	P6S_UW

	fertilization and protection of horticultural plants as well as storing fruits, vegetables, decorative plants and nursery material	
OGP_U16	use studies and create recommendations for plant protection and fertilization, provide consultancy in the field of horticultural production in order to obtain high quality horticultural products as well as make decisions while maintaining the principles of environmental protection and rational management	P6S_UW
OGP_U17	arrange and maintain green areas, and create plantings of various character and purpose	P6S_UW
OGP_U18	properly choose and use equipment, tools and machines for farming and gardening, for the care, protection, harvesting and storage of horticultural plants	P6S_UW
OGP_U19	perform a simple engineering or design task tailored to the field of study under the guidance of a tutor; correctly interpret the results and draw conclusions; indicate disadvantages and advantages of the adopted solution	P6S_UW
OGP_U20	adapt the directions and technologies of growing horticultural plants to local natural and economic conditions	P6S_UW
OGP_U21	assess the economic efficiency of a horticultural farm using basic methods of cost, income and profitability accounting and carry out economic, social and legal analysis of undertaken activities	P6S_UW