Zał. nr 2.1. do Uchwały nr 163/05/2026 Senatu UR
z dnia 25 maja 2026 r.

GENERAL INFORMATION ABOUT THE FIELD OF STUDY

Effective from the academic year 2026/2027

1.	Field of study	**Agriculture**
2.	Level of study	**First-cycle studies**
3.	Study profile	**General academic**
4.	Form or forms of study	**Full-time**
5.	Number of semesters	**7**
6.	Number of ECTS points necessary to complete the studies at a given level	**210**
7.	Professional title	**Engineer**
8.	Assignment of the field of study to a field of science and a scientific or artistic discipline (specification of the percentage share in the case of assignment of the field of study to more than one discipline and indication of the leading discipline within which more than half of the learning outcomes will be achieved)	field(s) of science: agriculture sciences leading discipline - agriculture and horticulture – 100%
9.	Differences in relation to other programmes with similarly defined goals and learning outcomes, conducted at the University and assigned to the same discipline	The University does not have a field of study with similarly defined outcomes assigned to the same discipline and the same graduate profile.
10.	Description of the graduate profile including the description of general educational goals as well as employment opportunities and the possibility of continuing studies Graduates are specialists in agricultural production and have practical training to independently run a farm in accordance with the principles of sustainable development. Graduates possess knowledge of the economics, organization, and management of agricultural production, as well as the operation of agricultural infrastructure. They also have a thorough understanding of agribusiness, consulting for agricultural enterprises, and trading and service companies. They are prepared to work in central and local government administration related to agriculture, agricultural services, and consulting, in companies purchasing and trading plant products, and to manage agricultural farms. Graduates are prepared to conduct research. They also possess foreign language skills at level B2 of the Common European Framework of Reference for Languages. Graduates are prepared to undertake second-cycle studies.	
11.	Language of instruction	Studies conducted in English

President of the Senate
of the University of Rzeszów

Prof. dr hab. Adam Reich
Rector

Zał. nr 2.2. do Uchwały nr 163/05/2026 Senatu UR
z dnia 25 maja 2026 r.

DESCRIPTION OF THE ASSUMED LEARNING OUTCOMES

Effective from the academic year: 2026/2027

Field of study	**Agriculture**
Level of study	**First-cycle studies**
Study profile	**General academic**

The description of the assumed learning outcomes for the field of study, level, and profile of education takes into account the universal first-cycle characteristics for levels 6–7 specified in the Act of 22 December 2015 on the Integrated Qualifications System (consolidated text: Journal of Laws of 2024, item 1606) and the second-cycle characteristics for levels 6–7 specified in the Regulation of the Minister of Science and Higher Education of 14 November 2018 (Journal of Laws of 2018, item 2218) on the second-cycle characteristics of learning outcomes for qualifications at levels 6–8 of the Polish Qualifications Framework.

Symbol	Learning outcomes	Reference to the second-cycle PQF characteristics*, ** level 6
	Knowledge: the graduate knows and understands	
K_W01	advanced facts, phenomena and theories in the field of natural and agricultural sciences, at a level sufficient to explain the processes occurring in nature and the functioning of living organisms, including the biology of cultivated and meadow plants and the principles of agricultural technology	P6S_WG
K_W02	advanced possibilities of economic and natural use of cultivated and meadow plants, as well as plant-environment interactions in terms of shaping the environment	P6S_WG
K_W03	advanced properties of chemical elements and selected organic and inorganic compounds to the extent that allows understanding of the chemical processes and the principles of fertilization	P6S_WG
K_W04	advanced issues and theories in the field of exact sciences to the extent necessary to be used in agricultural sciences	P6S_WG
K_W05	advanced selected issues and theories concerning the role of inanimate nature in agriculture and the significance of opportunities and threats for the natural environment	P6S_WG
K_W06	advanced physiology of nutrition, use and welfare of livestock	P6S_WG
K_W07	advanced construction of agricultural machines and tools, automation of production processes and the issue of technological progress in agriculture	P6S_WG P6S_WG (engineer)
K_W08	advanced conceptual categories, terminology and activities for sustainable development of rural areas and protection of biodiversity in various agricultural production systems, their	P6S_WG

	planning and optimization, food safety and improving the quality of human life	
K_W09	legal regulations and economic, ethical and social conditions related to agriculture as a branch of the economy and fundamental dilemmas of modern civilization	P6S_WK
K_W10	concepts and regulations regarding industrial property protection and copyright, as well as the principles of creating and professional development and forms of individual entrepreneurship, using knowledge in the field of agricultural sciences	P6S_WK P6S_WK (engineer)
Skills: the graduate can		
K_U01	evaluate, critically analyze and synthesize information from literature, databases and other sources and communicate precisely with various entities, present his/her own views in verbal, written and graphic form using information and communication techniques during data acquisition, calculations and presentations of agricultural research results	P6S_UW P6S_UK
K_U02	plan and perform experiments, commissioned research tasks, projects and expert opinions, interpret the results obtained and formulate conclusions regarding agriculture and design technological processes using appropriate analytical, simulation and experimental methods and tools	P6S_UW P6S_UW (engineer)
K_U03	analyze factors affecting the productivity of plants and animals, food quality and the condition of the environment and natural resources, as well as select the appropriate varieties of crops and breeds of farm animals, according to the farming conditions	P6S_UW P6S_UW (engineer)
K_U04	take action using appropriate methods, techniques, technologies, tools and materials to solve problems of natural environment and natural resources, as well as food production and animal welfare, and to optimize agricultural activities	P6S_UW P6S_UW (engineer)
K_U05	list the elements of construction and use of agricultural machines and assess the economic efficiency of their use	P6S_UW
K_U06	perform necessary mathematical, physical, chemical and statistical calculations used in agricultural sciences with the use of information technology	P6S_UW
K_U07	plan economic activities regarding various agricultural production and agribusiness systems and assess the strengths and weaknesses of the actions taken to solve economic problems and engineering tasks	P6S_UW P6S_UW (engineer)
K_U08	use specialized vocabulary in the field of agricultural sciences and foreign language vocabulary at B2 level of the Common European Framework of Reference for Languages	P6S_UK
K_U09	analyze and identify the causes and problems related to environmental degradation and take action for the proper exploitation and development of the agricultural environment	P6S_UW

K_U10	plan and organize individual and team work as well as strive for self-development through lifelong learning	P6S_UO P6S_UU
Social competences: the graduate is ready to		
K_K01	critically assess his/her knowledge of ethical, economic and environmental priorities in his/her own or other activities in the field of agricultural sciences	P6S_KK
K_K02	seek the opinion of experts in the event of difficulties in solving problems on his/her own in the field of agricultural sciences	P6S_KK
K_K03	accept responsibility and take action and fulfill social obligations for the benefit of the social environment, as well as think and act in an entrepreneurial manner	P6S_KO
K_K04	perform professional roles in a responsible manner, including compliance with the rules of professional ethics and care for the achievements and traditions of the profession	P6S_KR

* In the case of implementing a study programme leading to the acquisition of engineering competences, in addition to references to the learning outcome characteristics from Part I of the annex, references to the learning outcome characteristics from Part III should be included, ending with the designation (Inż), e.g., P6S_WG (Inż)

** In the case of a field of study assigned to the field of arts, in addition to references to the learning outcome characteristics from Part I of the annex, references to the learning outcome characteristics from Part II should be included, ending with the designation (Sz), e.g., P6S_WG (Sz)

President of the Senate
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Rector

Zał. nr 2.3. do Uchwały nr 163/05/2026 Senatu UR
z dnia 25 maja 2026 r.

CHARACTERISTICS AND CONDITIONS FOR THE IMPLEMENTATION OF THE STUDY PROGRAMME

Effective from the academic year: 2026/2027

<table>
<tr><td colspan="2">Field of study</td><td colspan="2">Agriculture</td></tr>
<tr><td colspan="2">Level of study</td><td colspan="2">First-cycle studies</td></tr>
<tr><td colspan="2">Study profile</td><td colspan="2">General academic</td></tr>
<tr><td rowspan="2">1.</td><td rowspan="2">Total number of teaching hours</td><td>full-time studies</td><td>part-time studies</td></tr>
<tr><td>2400+ 160 hours of internship</td><td>-</td></tr>
<tr><td>2.</td><td>Number of ECTS points for individual disciplines in the total number of ECTS points required to complete the studies in the field</td><td colspan="2">agriculture and horticulture – 210</td></tr>
<tr><td rowspan="2">3.</td><td rowspan="2">Total number of ECTS points that a student must obtain as part of classes conducted with the direct participation of academic teachers or other persons conducting classes</td><td>full-time studies</td><td>part-time studies</td></tr>
<tr><td>108</td><td>-</td></tr>
<tr><td>4.</td><td>Number of ECTS points that a student must obtain within classes in the field of humanities or social sciences, not less than 5 ECTS points – in the case of fields of study assigned to disciplines within fields other than humanities or social sciences respectively</td><td colspan="2">8</td></tr>
<tr><td>5.</td><td>Number of ECTS points that a student must obtain within elective classes (not less than 30% of the total number of ECTS points)</td><td colspan="2">88</td></tr>
<tr><td>6.</td><td>Number of physical education hours (in the case of first-cycle studies and long-cycle Master's studies conducted in the form of full-time studies)</td><td colspan="2">60</td></tr>
<tr><td>7.</td><td>Total number of ECTS points assigned to classes shaping practical skills – concerns the practical profile</td><td colspan="2">-</td></tr>
<tr><td>8.</td><td>Total number of ECTS points assigned to classes related to scientific activity in the discipline or disciplines to which the field of study is assigned, including the preparation of students for conducting scientific activity or participation in this activity – concerns the general academic profile</td><td colspan="2">155</td></tr>
</table>

9.	Extent, rules, and forms of professional internships and the number of ECTS points assigned to internships Number of hours 160 Duration 4 weeks ECTS points 6 The internship is conducted during the summer break after the completion of classes in the 4th semester. The internship may take place on farms or in entities whose scope of activity is consistent with the Agriculture program and is clearly related to agricultural production in its broadest sense. The conditions for receiving credit for the internship are its completion, a description of the scope of duties performed and the location of the internship, and submission of a internship journal, a report prepared by the student, and a review of the internship from the company's internship supervisor.
10.	Description of methods for verification and assessment of learning outcomes achieved by the student throughout the entire education cycle For all learning outcomes defined in the study program, selected and diverse assessment methods have been developed, as outlined in the syllabus. The most frequently used assessment methods include: written examinations, tests, presentations, prepared projects, reports from fieldwork, oral presentations, and assessment of class participation. Learning outcomes for internships are assessed based on the internship journal, reports, and opinions of the in-house internship supervisor. Assessment of learning outcomes is conducted on an ongoing basis during classes and during the final assessment of the course. Key learning outcomes for the program are assessed and evaluated during seminars during the preparation of the thesis and during the final exam.
11.	Conditions for graduation The condition for completing the studies is to obtain the learning outcomes specified in the study program and 210 ECTS points, complete a professional internship, submit a diploma thesis and pass a diploma examination.

Conditions for the implementation of the study programme

No.	Subjects or groups of subjects *	Learning outcomes assigned to subjects/groups of subjects	Number of hours		Assessment form	Number of ECTS points
			full-time studies	part-time studies		
General subjects						
1.	Law in Agriculture	K_W08, K_W09, K_W10, K_U01	15		ZO	2
2.	Information Technology	K_U01, K_K01	20		ZO	2
3.	Ethics / Philosophy of Nature	K_W01, K_U01	30		ZO	2
4.	University-wide Subject		30		Z	2
5.	Physical Education		60		ZO	
6.	Foreign Language	K_U08, K_K01, K_K03	120		E	8
			Σ 275	Σ		**Σ 16**

Basic subject group						
7.	Natural Fundamentals of Agriculture	K_W01, K_W02, K_W08, K_U02, K_U10, K_K01	85		E	8
8.	Chemistry	K_W01, K_W03, K_U04, K_U06, K_U10, K_K04	45		E	4
9.	Basics to Economics	K_W04, K_W09, K_U02, K_U07, K_K01	20		ZO	2
10.	Basics of Statistics in Agriculture	K_W04, K_U02, K_U06, K_U10, K_K02	30		ZO	2
11.	Mathematics	K_W04, K_U06, K_U10, K_K02	35		ZO	3
12.	Physics of the Environment	K_W01, K_W04, K_U02, K_U06, K_U10, K_K02	35		ZO	4
13.	Plant Physiology	K_W01, K_W02, K_U10, K_U02, K_K02	45		ZO	4
14.	Genetics	K_W01, K_W02, K_U02, K_K01	45		ZO	3
15.	Ecology and Environmental Protection	K_W01, K_W05, K_W08, K_U01, K_U04, K_U09, K_K04	25		ZO	2
16.	Spatial Information System in Agriculture	K_W07, K_U06, K_U09, K_U10, K_K01	15		ZO	2
17.	Agricultural Microbiology	K_W01, K_U10, K_U03, K_U05, K_K01	45		ZO	3
			Σ 425	Σ		**Σ 37**
Major subject group						
18.	Water Management and Agrometeorology	K_W01, K_W04, K_W05, K_U03, K_U04, K_K01	45		E	4
19.	Agroecology	K_W01, K_W02, K_W05, K_U03, K_U01, K_U06, K_K01, K_K03	45		ZO	3
20.	Soil Science	K_W01, K_W02, K_W05, K_U02, K_U03, K_U09, K_K01	70		E	7
21.	Agricultural Chemistry	K_W01, K_W02, K_W03, K_U02, K_U03, K_K01	75		E	5
22.	General Soil and Plant Cultivation	K_W01, K_W02, K_W07, K_U03, K_U07, K_K01	50		E	4
23.	Weeds in Cultivated Fields	K_W01, K_W02, K_U03, K_U04, K_K02	35		ZO	3

24.	Crop Production	K_W01, K_W02, K_W04, K_W08, K_U03, K_U04, K_U07, K_U10, K_K01	120		E	8
25.	Breeding of Agricultural Plants and Seed Production	K_W01, K_W02, K_W09, K_U02, K_U03, K_U04, K_U10, K_K01, K_K04	60		E	5
26.	Plant Protection	K_W01, K_W02, K_W03, K_W08, K_U02, K_U06, K_U09, K_U10, K_K01	85		E	6
27.	Vegetable and Fruit Growing	K_W01, K_W08, K_U01, K_U03, K_U04, K_U10, K_K04	45		E	4
28.	Meadow Management	K_W01, K_W02, K_U10, K_U03, K_U05, K_U07, K_U09, K_K01	55		E	4
29.	Animal Production	K_W06, K_W07, K_W08, K_U03, K_U04, K_U07, K_U10, K_K01	100		E	7
30.	Animal Nutrition and Feed Science	K_W06, K_W08, K_U02, K_U03, K_K01	45		ZO	3
31.	Agricultural Engineering	K_W04, K_W07, K_W08, K_U04, K_U05, K_U10, K_K02	90		E	7
32.	Methodology of Agricultural Researches	K_W01, K_W04, K_U01, K_K02	30		ZO	2
33.	Organization and Farm Economics	K_W04, K_W07, K_W09, K_U01, K_U03, K_U04, K_U07, K_U10, K_K01, K_K04	35		E	3
			Σ 985	Σ		**Σ 75**
	Total		**Σ 1685**	Σ		**Σ 128**
Elective major subject group/ specialty/ educational path in the field of **Agronomy with Agribusiness**						
34.	Agrobusiness and Sustainable Development of Rural Areas	K_W08, K_W09, K_U01, K_U05, K_U07, K_K01, K_K03	30		ZO	3
35.	Economics of Agricultural Mechanization	K_W07, K_W09, K_U05, K_U07, K_K01	30		E	3
36.	Support Programmes for Agricultural Mechanization	K_W07, K_W09, K_U05, K_U07, K_K01	15		ZO	1

37.	Agri-Food Processing	K_W08, K_W09, K_U03, K_U04, K_K01	45		ZO	3
38.	Common Agricultural Policy and Rural Development	K_W08, K_W09, K_U01, K_U07, K_K01	30		ZO	3
39.	Distribution and Use of Chemical Plant Protection Products	K_W07, K_W08, K_W09, K_U03, K_U04, K_U10, K_K04	45		E	4
40.	Financial System in Agriculture	K_W09, K_W10, K_U10, K_U07, K_K01	30		ZO	3
41.	Animal Welfare	K_W06, K_U03, K_U04, K_K01	30		ZO	2
42.	Agronomic Aspects of the Intensification of Production	K_W01, K_W02, K_W03, K_W07, K_U01, K_U02, K_U03, K_K01	45		E	4
43.	Systems of Certification in Agriculture	K_W08, K_W09, K_W10, K_U07, K_K01, K_K02	30		ZO	3
44.	Basic of Organic Farming	K_W08, K_W09, K_U03, K_U04, K_U09, K_K01	30		ZO	3
45.	Agribusiness Marketing	K_W04, K_W09, K_W10, K_U01, K_U02, K_U04, K_U10, K_K01, K_K04	45		E	4
46.	Obtaining Funding for Agricultural Investments	K_W08, K_W09, K_W10, K_U07, K_U10, K_K01, K_K03	45		ZO	4
47.	Entrepreneurship in Agribusiness	K_W08, K_W09, K_W10, K_U07, K_U10, K_K03	30		ZO	2
48.	The Use of Drones in Smart Farming	K_W07, K_W08, K_U01, K_U06, K_K01, K_K03	15		ZO	1
49.	Agricultural Advisory Service	K_W07, K_W08, K_U01, K_U03, K_K01, K_K03	45		E	4
50.	Computer-Based Decision Support Systems	K_W05, K_W08, K_U01, K_U03, K_U04, K_U07, K_U09, K_K01, K_K03	15		ZO	1
51.	Technological Progress in Agriculture	K_W07, K_W08, K_U01, K_U03, K_U05, K_K01, K_K04	45		ZO	3
52.	Engineer's Seminar	K_W01, K_W04, K_W07, K_W08, K_W09, K_U01, K_U02, K_U03,	60		Z	21

		K_U04, K_U06, K_U08, K_K01, K_K03, K_K04				
53.	Specialty Subjects to Choose from I	K_W01, K_W02, K_W05, K_W08, K_W09, K_U01, K_U03, K_U04, K_U07, K_U09, K_U10, K_K01, K_K02, K_K04	30		ZO	2
54.	Specialty Subjects to Choose from II	K_W02, K_W03, K_W07, K_W08, K_W09, K_U01, K_U03, K_U04, K_U07, K_U09, K_K01, K_K02, K_K03	25		ZO	2
			Σ 715	Σ		**Σ 76**
Total (the sum includes subjects for one specialty/ one educational path)			**Σ 2400**	Σ		**Σ 204**
Elective major subject group/ specialty/ educational path in the field of **Shaping the Agricultural Production Space**						
55.	Good Agricultural Practice	K_W07, K_W08, K_W09, K_U03, K_U07, K_U04, K_K01	60		E	4
56.	Distribution and Use of Chemical Plant Protection Products	K_W07, K_W08, K_W09, K_U03, K_U04, K_U10, K_K04	45		E	4
57.	Environmental and Natural Resource Economics	K_W01, K_W08, K_W09, K_U04, K_K03, K_K04	45		E	4
58.	Landscaping	K_W01, K_W02, K_U04, K_U09, K_K01	45		ZO	4
59.	Soil Protection and Restoration	K_W01, K_W05, K_W09, K_U01, K_U09, K_U04, K_K01, K_K02	45		ZO	4
60.	Water Management in Agriculture	K_W01, K_W05, K_U07, K_U09, K_K01	45		E	4
61.	Agroforestry Systems	K_W01, K_W05, K_U10, K_U02, K_K01	45		ZO	4
62.	Common Agricultural Policy and Rural Development	K_W04, K_W09, K_W10, K_U01, K_U07, K_K01	45		ZO	4
63.	Sustainable Development	K_W08, K_W09, K_U01, K_U07, K_U09, K_K03, K_K04	60		E	5
64.	Biodiversity in Cultivated Fields	K_W01, K_W02, K_W08, K_U01,	45		ZO	4

		K_U03, K_U09, K_K01				
65.	Herbal Plants	K_W02, K_U01, K_U03, K_K01	15		ZO	2
66.	Waste Management in Rural Areas	K_W04, K_W05, K_W09, K_U01, K_U02, K_U09, K_K01, K_K03	60		ZO	4
67.	Agricultural Production Areas	K_W01, K_W02, K_W08, K_U01, K_U02, K_K01	45		E	4
68.	Engineer's Seminar	K_W01, K_W04, K_W07, K_W08, K_W09, K_U01, K_U02, K_U03, K_U04, K_U06, K_U08, K_K01, K_K03, K_K04	60		Z	21
69.	Specialty Subjects to Choose from I	K_W01, K_W02, K_W08, K_U03, K_U04, K_U09, K_K01, K_K02, K_K04	30		ZO	2
70.	Specialty Subjects to Choose from II	K_W01, K_W05, K_W07, K_W09, K_U01, K_U03, K_U04, K_U07, K_K01, K_K03, K_K04	25		ZO	2
			Σ 715	Σ		**Σ 76**
Total (the sum includes subjects for one specialty/ one educational path)			**Σ 2400**	Σ		**Σ204**
Professional Internship		K_W07, K_W10, K_U02, K_U03, K_U04, K_U07, K_K01, K_K04	160		ZO	6
Total:			**Σ 2560**	Σ		**Σ 210**

Description of the course of study including the sequence of subjects, rules for choosing elective subjects, and rules for implementing educational paths:

In the first semester of the first year of studies, students complete mandatory occupational health and safety and library training in the form of an e-learning course. Foreign language instruction is offered in the first four semesters of study and concludes with a B2-level exam. Students complete general and core subjects during the first four semesters of study, while core subjects are taught during the first six semesters. A university-wide Subject in the humanities or social sciences is taught in the seventh semester.

Specialization selection is possible after completing the second year of studies. After the fourth semester, a professional internship is offered during the summer. Elective courses are offered from the sixth to the seventh semester. A list of elective courses, approved by the Faculty Council, is included in the study schedule. The engineering seminar is offered in the sixth and seventh semesters. Students choose their supervisor and thesis topic. Diploma theses in engineering studies

can be research, expert opinions, or projects. The seminar includes content related to intellectual property protection. The condition for passing the seminar in the final semester is the submission of a completed thesis verified by the anti-plagiarism system.
During the diploma examination, students answer questions related to the thesis topic and randomly selected questions related to the field of study and specialization. Regardless of the specialization chosen by the student, the curriculum allows for the achievement of all the learning outcomes assumed for the program.

President of the Senate
of the University of Rzeszów

Prof. dr hab. Adam Reich
Rector