

Wydział Agrobiżynierii

Kierunek GLOBAL MANAGEMENT IN SMART AGRICULTURE

studia stacjonarne I stopnia

Plan studiów zgodny z UCHWAŁĄ NR 39/2022-2023 Senatu UP w Lublinie

z dnia 28 kwietnia 2023 r. Obowiązuje dla naboru 2025-2026

Lp.	Classes Module	ECTS	Form of credit	Hours in total	Lectures	Auditory Classes	Laboratory Classes	Field Classes	Lecture hours in total	Classes hours in total
SEMESTR I										
1	Agricultural Botany	5	E	50	15	10	20	5	1	2
2	Zoology	4	Z	45	15	10	20		1	2
3	Chemistry	4	Z	45	15	10	20		1	2
4	Economics	4	E	45	15	30			1	2
5	Information Technology	2	Z	30			30			2
6	Mathematical Decision Support	4	Z	45	15	10	20		1	2
7	Work Safety and Ergonomics	1	Z	10	10				1	
8	Physical Education 1	-	Z	30		30				2
9	Optional Module – block A1	4	Z	45	30	5	10		2	1
10	Optional Module – block A2	2	Z	30	30				2	
	Σ	30	2E	375	145	105	120	5	10	15
SEMESTR II										
11	Biochemistry	4	E	45	15	10	20		1	2
12	Microbiology	6	E	60	30	10	20		2	2
13	Soil Science	6	E	60	30	10	15	5	2	2
14	Drainage and irrigation of plants	2	Z	30	15	5	5	5	1	1
15	Database Design and Maintenance	2	Z	30	15		15		1	1
16	Foreign Language 1	2	Z	30			30			2
17	Physical Education 2	-	Z	30		30				2
18	Optional Module – block B1	4	Z	45	15		30		1	2
19	Optional Module – block B2	2	Z	30	15	15			1	1
20	Optional Module – block B3	2	Z	30	30				2	

	Σ	30	3E	390	165	80	135	10	11	15
SEMESTR III										
21	Agricultural Chemistry	6	E	60	30	10	15	5	2	2
22	Basics of Marketing	2	Z	30	30				2	
23	Basics of Mechanical Engineering	6	E	60	30	15	15		2	2
24	Livestock Production Technologies	2	Z	30	15	5	10		1	1
25	Plant Pests	2	Z	30	15	5	10		1	1
26	Phytopathology	2	Z	30	15	5	10		1	1
27	Foreign Language 2	2	Z	30			30			2
28	Optional Module – block C1	4	Z	45	15	10	20		1	2
29	Optional Module – block C2	2	Z	30	15		15		1	1
30	Optional Module – block C3	2	Z	30	15		15		1	1
	Σ	30	2E	375	180	50	140	5	12	13
SEMESTR IV										
31	Soil and Plant Cultivation	6	E	60	30	10	15	5	2	2
32	Agricultural Automation	6	E	60	30	10	20		2	2
33	Spatial Information Systems in Agriculture	4	Z	45	15	10	20		1	2
34	Foreign Language 3	4	E	45			45			3
35	Optional Module - block D1	2	Z	30	15	15			1	1
36	Optional Module – block D2	4	Z	45	15	10	20		1	2
37	Optional Module – block D3	4	Z	45	15	10	20		1	2
	Σ	30	3E	330	120	65	140	5	8	14
SEMESTR V										
38	Stationary and Mobile Agrotrophic Systems	4	E	45	15	10	20		1	2
39	Intellectual Property Protection	1	Z	15	15				1	
40	Detailed Plant Cultivation 1	6	Z	60	30	10	20		2	2
41	Optional Module – block E1	6	E	60	30	10	20		2	2
42	Optional Module – block E2	2	Z	30	15	15			1	1
43	Optional Module – block E3	2	Z	30	15	15			1	1
44	Optional Module – block E4	2	Z	30	15	15			1	1
45	Optional Module – block E5	4	Z	45	15		30		1	2
46	Optional Module – block E6	1	Z	15	15				1	
47	Optional Module – block E7	2	Z	30	15	15			1	1
	Σ	30	2E	360	180	90	90	0	12	12
SEMESTR VI										
48	Integrated Construction of Agricultural Vehicles and Machines	4	Z	50	15	10	20	5	1	2
49	Detailed Plant Cultivation 2	6	E	65	30	10	20	5	2	2
50	Grassland Science	6	E	65	30	10	20	5	2	2

51	Optional Module – block F1	4	Z	45	30	15			2	1
52	Optional Module – block F2	2	Z	30	15	15			1	1
53	Optional Module – block F3	2	Z	30	15	15			1	1
54	Diploma Seminar 1 (including methodology of information research 2 hours)	2	Z	30			30			2
55	Professional Training (4 weeks)	4	E	0						
Σ		30	3E	315	135	75	90	15	9	11
SEMESTR VII										
56	Precision Agriculture	6	E	60	30	10	15	5	2	2
57	Techniques and Technologies in Plant Protection	4	Z	45	15	10	20		1	2
58	Smart Environment: SmartHome, SmartVillage, SmartCity	6	E	60	30	10	20		2	2
59	Optional Module – block G1	2	Z	30	15	15			1	1
60	Optional Module – block G2	2	Z	30	15	15			1	1
61	Diploma Seminar 2	2	Z	30			30			2
62	Engineering Project and Diploma Exam	8	E	0						
Σ		30	3E	255	105	60	85	5	7	10
Total in semesters I - VII		210	18	2400	1030	525	800	45		
Percentage Share					42,9	21,9	33,3	1,9		
Share of auditorium practicals in total [%]						38,3				

Optinal modules

Lp.	Classes module	ECTS	Forms of credit	Hours in total	Lectures	Auditory classes	Laboratory classes	Field classes	Lecture hours a week	Class hours a week
term I - UNIT A1										
9_1	Agrometeorology	4	Z	45	30	5	10		2	1
9_2	Climatology and Meteorology	4	Z	45	30	5	10		2	1
term I - UNIT A2										
10_1	Sociology	2	Z	30	30				2	
10_2	Social Communication	2	Z	30	30				2	
term II -UNIT B1										
18_1	Engineering Design	4	Z	45	15		30		1	2

18_2	Computer Aided Design	4	Z	45	15		30		1	2
term II - UNIT B2										
19_1	International Economic Relations	2	Z	30	15	15			1	1
19_2	Economy of European Integration	2	Z	30	15	15			1	1
term II - UNIT B3										
20_1	Global Trends and Demographic Processes	2	Z	30	30				2	
20_2	Social Responsibility for the Nature	2	Z	30	30				2	

term III - UNIT C1										
28_1	Microbiological Hazards in Agriculture	4	Z	45	15	10	20		1	2
28_2	Bioengineering of Microorganisms	4	Z	45	15	10	20		1	2
term III- UNIT C2										
29_1	Programming of Mobile Devices	2	Z	30	15		15		1	1
29_2	Programming in Python	2	Z	30	15		15		1	1
term III- UNIT C3										
30_1	Web Application Development	2	Z	30	15		15		1	1
30_2	Objective-C Programming	2	Z	30	15		15		1	1
term IV- UNIT D1										
35_1	Agricultural Accounting	2	Z	30	15	15			1	1
35_2	Agricultural Economics	2	Z	30	15	15			1	1
term IV- UNIT D2										
36_1	Environmental Protection	4	Z	45	15	10	20		1	2
36_2	Biodiversity Conservation	4	Z	45	15	10	20		1	2
term IV - UNIT D3										
37_1	Reclamation of Degraded Areas	4	Z	45	15	10	20		1	2
37_2	Circular Economy	4	Z	45	15	10	20		1	2
term V - UNIT E1										
41_1	Genetics, Plant Breeding and Seed Production Science	6	E	60	30	10	20		2	2
41_2	Plant Biotechnology	6	E	60	30	10	20		2	2
term V -UNIT E2										
42_1	Agriculture and Environment	2	Z	30	15	15			1	1
42_2	Good Agricultural Practices	2	Z	30	15	15			1	1
term V - UNIT E3										
43_1	Taxes in Agriculture	2	Z	30	15	15			1	1
43_2	Economy of Sustainable Development	2	Z	30	15	15			1	1
semestr V - BLOK E4										
44_1	International Marketing	2	Z	30	15	15			1	1
44_2	Management in International Business	2	Z	30	15	15			1	1
term V - UNIT E5										

45_1	Remote Sensing in Smart Agriculture	4	Z	45	15		30		1	2
45_2	Data Acquisition Systems for Agriculture	4	Z	45	15		30		1	2
term V - UNIT E6										
46_1	Home Gardens	1	Z	15	15				1	
46_2	Management and Development of Forests and Open Areas	1	Z	15	15				1	
term V - UNIT E7										
47_1	Recycling of Engineering Materials	2	Z	30	15	15			1	1
47_2	Natural Use of Waste	2	Z	30	15	15			1	1
term VI - UNIT F1										
51_1	Food Quality Management	4	Z	45	30	15			2	1
51_2	Quality Assurance Systems in Agriculture	4	Z	45	30	15			2	1
term VI - UNIT F2										
52_1	International Trade	2	Z	30	15	15			1	1
52_2	Globalisation in Agriculture	2	Z	30	15	15			1	1
term VI - UNIT F3										
53_1	Climate Changes and Global Warming	2	Z	30	15	15			1	1
53_2	Hydrology and Water Management	2	Z	30	15	15			1	1
term VII - UNIT G1										
59_1	Innovations in Agriculture	2	Z	30	15	15			1	1
59_2	Digitization of Agriculture	2	Z	30	15	15			1	1
term VII - UNIT G2										
60_1	Financial Analysis in Agro-enterprise	2	Z	30	15	15			1	1
60_2	Financial Management	2	Z	30	15	15			1	1