Annex to the resolution no. 103/2019-2020
of the Senate of the University of Life Sciences in Lublin
of 25 September 2020

EDUCATION PROGRAMME FOR THE DOCTORAL SCHOOL

OF THE UNIVERSITY OF LIFE SCIENCES IN LUBLIN

TABLE OF CONTESTS:

Chapter 1. General objectives of the education process at the Doctoral School of the University of Life Sciences in Lublin.

1. The education programme for the Doctoral School of the University of Life Sciences in Lublin includes interdisciplinary path, common to all PhD students and specialised paths corresponding with the scientific disciplines that make up the school: Agriculture and Horticulture, Food Technology and Human Nutrition, Veterinary Medicine, Animal Science and Fishing, Mechanical Engineering, Environmental Engineering, Mining and Power Engineering, Life Sciences.
2. The common part of education is aimed at developing interdisciplinary perception of research problems by PhD students from different scientific disciplines as well as integrating the community of PhD students.

Chapter 2. Education programme at the Doctoral School.

§1. [Framework education programme]

1. The Doctoral School has a semester course system.
2. The curriculum of the Doctoral School includes 5 modules:
    - social module – legal, ethical and economic conditions of scientific activity, English language classes
    - methodological module – methodology of scientific work, statistics
    - didactic module – professional training (without conducting classes, participation and unassisted conducting classes)
    - legal and dissemination module – commercialisation of scientific research results, principles of preparing applications for research projects, workshops on popularisation of science
    - specialist module – doctoral seminars, writing and editing scientific texts
3. Doctoral seminars are conducted over 8 semesters in the form of systematic meetings, which enables the development of research assumptions, regular discussions and presentations of the obtained research results.
4. The seminar conducted within one group can be conducted by several people to exchange knowledge, skills and scientific experience. It is allowed to combine PhD students representing different disciplines into one group.

5. English language classes are conducted on a semester basis, which guarantees a PhD student constant contact with teachers who have knowledge of specialist terminology necessary in a given filed.

§ 2 [PhD student education plan]

1. The study plan includes compulsory classes.
2. The framework education plan for PhD students at the Doctoral School of the University of Life Sciences in Lublin is presented in table 1.

Table 1. Framework education plan for PhD students at the Doctoral School of the University of Life Sciences in Lublin.

No.	Name of the subject/ course	W	Ćw.	Total	E/Z
Semester 1					
1.	English language classes		15	15	Z
2.	Methodology of scientific work	15		15	Z
3.	Legal, ethical and economic conditions of scientific activity	15		15	Z
4.	Doctoral seminar I		15	15	Z
5.	Professional training (without conducting classes, participation)		30	30	Z
Total		30	60	90	
Semester 2					
1.	English language classes		15	15	Z
2.	Writing and editing scientific texts		15	15	Z
3.	Professional training		30	30	Z
4.	Statistics		15	15	Z
5.	Doctoral seminar II		15	15	Z
Total			90	90	
Semester 3					
1.	English language classes		15	15	Z
2.	Preparation of applications for research projects		15	15	
3.	Professional training		30	30	Z
4.	Doctoral seminar III		15	15	Z

Total			75	75	
Semester 4					
1.	English language classes		15	15	Z
2.	Commercialisation of scientific research results	15		15	
3.	Professional training		30	30	Z
4.	Doctoral seminar IV		15	15	Z
Total		15	60	75	
Semester 5					
1.	English language classes		15	15	Z
2.	Professional training		30	30	Z
3.	Doctoral seminar V		15	15	Z
Total			60	60	
Semester 6					
1.	English language classes		15	15	Z
2.	Professional training		30	30	Z
3.	Doctoral seminar VI		15	15	Z
Total			60	60	
Semester 7					
1.	Workshops on popularisation of science		15	15	Z
2.	Doctoral seminar VII		15	15	Z
3.	Professional training		30	30	Z
Total			60	60	
Semester 8					
1.	Doctoral seminar VIII		15	15	Z
2.	Professional training		30	30	Z
Total			45	45	
In total / Altogether		45	510	555	

W – lectures , Ćw – classes , E – exam, Z – credit

Chapter 3. Learning outcomes at the Doctoral School of the University of Life Sciences in Lublin

§ 3. [Learning outcomes related to specific categories and domains]

1. Table no 2 presents learning outcomes related to specific categories and domains at the Doctoral School of the University of Life Sciences in Lublin.

   Table 2. Learning outcomes related to specific categories and domains (pursuant to Regulation of the Minister of Science and Higher Education of 14 November 2018 on characteristics of second-cycle studies learning outcomes for qualifications at levels 6-8 of Polish Qualification Framework – Level 8 PRK)

Learning outcome symbol	**Learning outcomes related to specific categories and domains**	**Reference to characteristics of second cycle PRK for level 8**
Knowledge: knows and understands		
SD_W01	to the extent allowing the revision of the existing paradigms in the field/discipline – world achievements, covering theoretical foundations as well as general and specific issues	P8S_WG
SD_W02	major developmental trends in the field/discipline, in which education takes place	P8S_WG
SD_W03	methodology of scientific research in the field/discipline of the conducted research including programmes for data analysis	P8S_WG
SD_W04	applicable principles for dissemination of scientific research results in the field/discipline as well as in open access mode	P8S_WG
SD_W05	fundamental dilemmas of modern civilisation	P8S_WK
SD_W06	economic, legal, ethical and other important conditions for scientific activity	P8S_WK
SD_W07	basic principles of knowledge transfer to the economic and social sphere as well as commercialisation of scientific research results	P8S_WK
Abilities: can		

SD_U01	use knowledge from different fields of science to creatively identify, formulate and apply innovative solutions to assumed research problems	P8S_UW
SD_U02	define the purpose and subject of scientific research, formulate a research hypothesis, develop innovative research methods and draw conclusions based on scientific research results	P8S_UW
SD_U03	critically assess the results of scientific research and expert activities and their contribution to the development of knowledge of the field/discipline	P8S_UW
SD_U04	transfer the results of scientific activity to the economic and social sphere	P8S_UW
SD_U05	skilfully select and use communication techniques and actively participate in the international scientific community	P8S_UK
SD_U06	disseminate the results of scientific activities in the popular-scientific form as well as in the popular form	P8S_UK
SD_U07	initiate discussion on science and participate in scientific discourse	P8S_UK
SD_U08	use the modern language in the field/discipline at B2 level of the Common European Framework of Reference for Languages, present the results of scientific research and conduct a scientific discussion in the international community	P8S_UK
SD_U09	plan individual as well as team research and creative ventures also in the international community	P8S_UO
SD_U10	plan and pursue personal development as well as the development of others	P8S_UU
SD_U11	plan classes and groups of classes making use of didactic skills and professional qualifications related to the method and technique of conducting didactic classes	P8S_UU
Social skills: is ready to		

SD_K01	critically evaluate the achievements of the represented field/discipline	P8S_KK
SD_K02	critically evaluate his/her own contribution to the development of the discipline he/she represents	P8S_KK
SD_K03	recognise the importance of knowledge in solving cognitive and practical problems, characteristic for the area of conducted research (field/discipline)	P8S_KK
SD_K04	perform professional roles, including respecting the code of professional conduct and improving the knowledge related to the profession	P8S_KO
SD_K05	maintain interpersonal relationships and influence correct social attitudes	P8S_KO
SD_K06	initiate actions in the public interest	P8S_KO
SD_K07	think and act in an entrepreneurial and creative way	P8S_KO
SD_K08	maintain and develop the ethos of scientific community and conduct independent scientific activity	P8S_KR
SD_K09	respect the principles of public ownership of scientific activity results and intellectual property protection	P8S_KR

§ 4. [Learning outcomes in relation to the modular learning system]

1. Table no 3 presents learning outcomes in relation to modular learning system at the Doctoral School of the University of Life Sciences in Lublin.

Table 3. Learning outcomes at the Doctoral School are presented and divided into knowledge, abilities and social skills for each module separately. The outcomes were developed from the perspective of a PhD student, who was granted a doctoral degree (pursuant to Regulation of the Minister of Science and Higher Education of 14 November 2018 on characteristics of second-cycle studies learning outcomes for qualifications at levels 6-8 of Polish Qualification Framework – Level 8 PRK)

Module	**Graduate of the Doctoral School of the University of Life Sciences in Lublin**		
	Knowledge knows and understands:	**Abilities can:**	**Social skills is ready to:**
Social module	**SD_W05** fundamental dilemmas of modern civilization **SD_W06** economic, legal, ethical and other important conditions for scientific activity **SD_W07** basic principles of knowledge transfer to the economic and social sphere as well as commercialization of scientific research results	**SD_U05** skilfully select and use communication techniques and actively participate in the international scientific community **SD_U07** initiate discussion on science and participate in scientific discourse **SD_U08** use the modern language in the field/discipline at B2 level of CEFRL **SD_U10** plan and pursue personal development as well as the development of others	**SD_K04** perform professional roles, including respecting the code of professional conduct and improving the knowledge related to the profession **SD_K05** maintain interpersonal relationships and influence correct social attitudes **SD_K06** initiate actions in the public interest
Methodological module	**SD_W02** major developmental trends in the field/discipline, in which education takes place **SD_W03** methodology of scientific research in the field/discipline of the conducted research including programmes for data analysis	**SD_U01** use knowledge from different fields of science to creatively identify, formulate and apply innovative solutions of assumed research problems **SD_U02** define the purpose and subject of scientific research, formulate a research hypothesis , develop innovative research	**SD_K01** critically evaluate the achievements of the represented field/discipline **SD_K08** maintain and develop the ethos of scientific community and conduct independent scientific research

		methods and draw conclusions based on scientific research results **SD_U03** critically assess the results of scientific research and expert activities and their contribution to the development of knowledge of the field/discipline	
Didactic module	**SD_W01** to the extent allowing the revision of the existing paradigms in the field/discipline – world achievements, covering theoretical foundations as well as general and specific issues **SD_W02** major developmental trends in the field/discipline, in which education takes place	**SD_U11** plan classes or groups of classes making use of didactic skills and professional qualifications related to the method and technique of conducting didactic classes	**SD_K03** recognise the importance of knowledge in solving cognitive and practical problems, characteristic for the area of conducted research (field/discipline) **SD_K02** critically evaluate his/her own contribution to the development of the discipline he/she represents **SD_K09** respect the principles of public ownership of scientific activity results and intellectual property protection
Legal and dissemination module	**SD_W04** applicable principles for dissemination of scientific research results in the field/discipline as well as in open access mode **SD_W06** economic, legal, ethical and other important conditions for scientific activity **SD_W07**	**SD_U04** transfer the results of scientific activity to the economic and social sphere **SD_U06** disseminate the results of scientific activities in the popular-scientific form as well as in the popular form	**SD_K08** maintain and develop the ethos of scientific community and conduct independent scientific activity **SD_K09** respect the principles of public ownership of scientific activity results and intellectual property protection

	basic principles of knowledge transfer to the economic and social sphere as well as commercialisation of scientific research results		
Specialist module (connected with the discipline)	**SD_W01** to the extent allowing the revision of the existing paradigms in the field/discipline – world achievements, covering theoretical foundations as well as general and specific issues	**SD_U09** plan individual as well as team research and creative ventures also in the international community	**SD_K07** think and act in an entrepreneurial and creative way **SD_K02** critically evaluate his/her own contribution to the development of the discipline he/she represents

§ 5. [Learning outcomes coverage grid in relation to education programme]

1. Table no.4 presents learning outcomes coverage grid in relation to the education programme at the Doctoral School of the University of Life Sciences in Lublin.

Table 4. learning outcomes coverage grid in relation to the educational programme at the Doctoral School of the University of Life Sciences in Lublin (pursuant to Regulation of the Minister of Science and Higher Education of 14 November 2018 on characteristics of second-cycle studies learning outcomes at levels 6-8 of Polish Qualification Framework – Level 8 PRK)

No.	Name of the subject/course	Qualification Framework / learning outcomes	
Semester 1			
1.	English language classes	P8S_UK	
2.	Methodology of scientific work	P8S_WG	P8S_UW
3.	Legal, ethical and economic conditions of scientific activity	P8S_WK	
4.	Doctoral seminar I	P8S_KK	
5.	Professional training (without conducting classes, participation)	P8S_KO	
Total			
Semester 2			
1.	English language classes	P8S_UK	
2.	Writing and editing scientific texts	P8S_KR	
3.	Professional training	P8S_KO	
4.	Statistics	P8S_UW	
5.	Doctoral seminar II	P8S_KK	
Total			
Semester 3			
1.	English language classes	P8S_UK	
2.	Preparation of applications for research projects	P8S_WK	P8S_UO

3.	Professional training	P8S_KO	
4.	Doctoral seminar III	P8S_KK	
Total			
Semester 4			
1.	English language classes	P8S_UK	
2.	Commercialisation of scientific research results	P8S_KO	
3.	Professional training	P8S_KO	
4.	Doctoral seminar IV	P8S_KK	
Total			
Semester 5			
1.	English language classes	P8S_UK	
2.	Professional training	P8S_KO	
3.	Doctoral seminar V	P8S_KK	
Total			
Semester 6			
1.	English language classes	P8S_UK	
2.	Professional training	P8S_KO	P8S_UU
3..	Doctoral seminar VI	P8S_KK	
Total			
Semester 7			
1.	Workshops on popularisation of science	P8S_KO	
2.	Doctoral seminar VII	P8S_KK	
3.	Professional training	P8S_KO	
Total			
Semester 8			
1.	Doctoral seminar VIII	P8S_KK	
2.	Professional training	P8S_KO	

§ 6. [Principles of crediting]

1. A PhD student is obliged to implement the education programme for the Doctoral School in accordance with the principles outlined in §2.

2. At the end of the semester (determined in accordance with the organisation of the academic year at the University of Life Sciences in Lublin), during the course of study a PhD student is obliged to complete the curriculum and to submit the credit card at the office of the Doctoral School.
3. Courses/subjects are credited with a grade according to the following grading scale:

Assessment in words	Numerical assessment
Very good	5.0
Good plus	4.5
Good	4.0
Satisfactory plus	3.5
Satisfactory	3.0
Unsatisfactory	2.0

4. At the end of each academic year (by 30 September) a PhD student submits to the Director of the Doctoral School a report on his/her progress made in the preparation of the doctoral dissertation, together with the supervisor's opinion. A PhD student prepares the report according to a uniform template, which is Annex no. 1 to the education programme.
5. At the end of the first year of studies (at the latest by 30 September) a PhD student submits to the Director of the Doctoral School the Individual Research Plan (IPB), reviewed by the supervisor(s) ,the chairperson of the Discipline Council and the Scientific Council for the Doctoral School.
6. Conditions for crediting the subsequent years of studies resulting from the implementation of the programme for the Doctoral School and the Individual Research Plan
   a) **The condition for crediting the first year of education** is obtaining positive grades in courses outlined in the curriculum and submitting the Individual Research Plan (IPB), (which includes: purpose of the research, research hypothesis, methodology of research, review of the world's literature on undertaken research topics and at least 3-month-international academic training).

      In subsequent years the IPB is subject to the review of scientific supervisor, the chairperson of the Discipline Council and the Scientific Council for the Doctoral

School, and is then submitted to the Director of the Doctoral School by 30 September.

b) **The condition for crediting the second year of education** is obtaining a positive result of the mid-term evaluation: obtaining positive grades in courses outlined in the curriculum, implementing the schedule presented in IPB, preparing and sending a scientific publication/article to the reviewing journal from the JCR register, for which the PhD student is the first or corresponding author, preparing and submitting an application for financing research from external sources.

c) **The condition for crediting the third year of education** is obtaining positive grades in courses outlined in the curriculum, implementing the schedule presented in IPB together with preparing and sending at least the second scientific publication / article to the reviewing journal from the JCR register.

d) **The condition for crediting the fourth year of education** is implementing the education programme for the Doctoral School together with obtaining positive grades in courses implemented during the course of studies and submitting the doctoral dissertation by 30 September.

7. Reviewing scientific progress of PhD students, implementing the education programme for the Doctoral School by chairperson of the Discipline Council and the Scientific Council for the Doctoral School, is aimed at controlling the correct and timely implementation of IPB, and above all substantive support for a young scientist.
8. An additional element of a PhD student's evaluation is his/her dissemination and implementation activity (popular science publications and knowledge dissemination publications, participation in conferences, lectures, participation in scientific festivals), trainings and scientific internships as well as applying for research projects and their implementation.

§ 7. [Characteristics of the modules and objectives pursued in the area of individual classes outlined in the education programme]

1. **Social module –** courses implemented in this module are aimed at enabling PhD students to develop the ability to speak freely and present research results in a professional manner, to acquire the ability to establish interpersonal contacts easily in both national and international scientific community, to acquire the skills of self-presentation – this will be a useful skill when conducting classes with students.

2. **Methodological module –** contains a substantially selected set of classes, during which PhD students will acquire the skills of proper selection and application of research methods. The basic principle for the preparation of high quality scientific studies is the knowledge and the ability to correctly apply methods characteristic for a specific research area in accordance with the presented field/discipline.
3. **Didactic module –** within the framework of this module a PhD student will learn the full range of scientific and didactic activities and after completing the courses in this module he/she should be well prepared to didactic activities. In the education programme, a PhD student will become acquainted with the methodology of academic teaching and will also undergo professional training – first as an observer of experienced research and teaching staff members (participating in classes) and next conducting the teaching activities with students on his/her own, in accordance with the study plan.
4. **Legal and dissemination module –** the aim of this module will be to present the relationship between the scientific and didactic work and the achievements of the outstanding domestic and foreign scientists to PhD students. In order for the PhD students to be able to benefit in this area from the scientific achievements of both national and international scope, in a manner consistent with ethical and legal standards within this module, they will have the opportunity to learn about the issues related to the protection of intellectual property and the commercialisation of scientific research results. At the same time ,since scientific work is also about applying for research projects, this module includes a course where PhD students will have the opportunity to learn the principles of preparing applications for research projects, as well as to realise issues related to the popularisation of science.
5. **Specialist module (in the discipline) –** will be implemented at each stage of education at the Doctoral School by participating in seminars, trainings, scientific internships, as well as through the implementation of IPB in selected disciplines.