

**Appendix to resolution of the Senate  
of the Warsaw University of Life Sciences – SGGW  
No. 74 – 2020/2021, of 21.02.2021**

**Education curriculum of the Doctoral School  
of the Warsaw University of Life Sciences – SGGW**

## TABLE OF CONTENTS

TABLE OF CONTENTS	2
Chapter 1. GENERAL ASSUMPTION OF THE EDUCATION PROCESS AT THE DOCTORAL SCHOOL AT THE WARSAW UNIVERSITY OF LIFE SCIENCES - SGGW	3
§ 1. [Concept]	3
§ 2. [Common education]	3
§ 3. [Field/discipline education]	3
CHAPTER 2. EDUCATION CURRICULUM OF THE DOCTORAL SCHOOL	4
§ 4. [Framework curriculum]	4
§ 5. [Curriculum]	5
§ 6. [Curriculum organisation]	7
CHAPTER 3. LEARNING OUTCOMES AT THE DOCTORAL SCHOOL OF THE WARSAW UNIVERSITY OF LIVE SCIENCES - SGGW	8
§ 7. [Learning outcomes are referenced to particular categories and scopes]	8
§ 8. [Learning outcomes in reference to the module teaching system]	10
§ 9. [Learning outcomes mapping in reference to the curriculum]	12
§ 10. [Crediting rules]	13
§ 11. [Characteristics of the modules and objectives pursued in the area of particular classes within the curriculum]	15
§ 12. [Learning outcomes mapping matrix in accordance with 8PQF]	15

## **Chapter 1. GENERAL ASSUMPTION OF THE EDUCATION PROCESS AT THE DOCTORAL SCHOOL AT THE WARSAW UNIVERSITY OF LIFE SCIENCES - SGGW**

### **§ 1. [Concept]**

1. Doctoral students at the Warsaw University of Life Sciences – SGGW – pursue education at the university-wide, multidisciplinary Doctoral School, hereinafter referred to as the “School” or the “Doctoral School”.
2. The Doctoral School offers a learning pathway which is common for all the doctoral students as well as specialised learning pathways relevant for particular fields/disciplines.
3. The education in Doctoral School can be organized stationary, online and hybrid.
4. The first stage of education at the School, covering the first year of studies, is identical for all the doctoral students who pursue common learning pathway, integrating and exchanging experiences.
5. In consultation with their supervisors, the doctoral students commence specialised education in the field/discipline relevant for their doctoral dissertation, by attending seminars and participating in the works of Institutes as well as by co-participating in specialized classes for the 1<sup>st</sup> and 2<sup>nd</sup> cycle students.
6. The second stage of education is in part common for all the doctoral students, and in part it is pursued within the specialised learning pathways in the given field/discipline of science.

### **§ 2. [Common education]**

1. The added value of the common education is the open format which both enables the doctoral students a continued development and enables the school evolution in line with the changing needs for education for doctoral student classes in consecutive years.
2. The purpose of the common part of education is to enable the doctoral students to take interdisciplinary approach to research problems in various fields/disciplines and to facilitate the integration of the academic community.
3. The period of the common education continues for the entire period.

### **§ 3. [Field/discipline education]**

1. The field/discipline education covers module classes in small groups of doctoral students (no more than 10 persons), who are grouped in seminar teams for specific fields/disciplines of science, who deal with specialised research problems. The specialised field/discipline education also covers the work of doctoral students in Institutes/Departments, inter alia, through fulfilling their research duties, assigning in conference organisation, cooperating with their supervisors, e.g. in respect of carrying out other research projects.
2. Field/disciplinary education also covers specialised classes selected by the doctoral students within 5 modules.
3. Specialised (elective) courses – recommended by the Discipline Councils and presented to the doctoral students as the choice of courses.
4. The choice of courses recommended by the Discipline Council jointly constitute the pool of elective courses.

5. The elective courses are selected in the form of competition. Those courses are launched for which at least 10 persons have enrolled. In exceptional cases, the decision to launch an elective course for a smaller number of persons is made by the head of the Doctoral School.

## CHAPTER 2. EDUCATION CURRICULUM OF THE DOCTORAL SCHOOL

### § 4. [Framework curriculum]

1. The classes in the School are conducted in the module and semester system.
2. Considering the organisation of classes at the Studium Praktycznej Nauki Języków Obcych of the Warsaw University of Life Sciences – SGGW – the foreign language classes are organised in a semester system. This guarantees the doctoral students a continued access to specialists in this field in case of any doubts as to specialised terms usage.
3. Seminars are organised in a semester system, in the form of regular meetings, which enables regular presentation, discussions and development of the doctoral students' research concepts, from the very beginning of their education at the Doctoral School.
4. A seminar organised within one group may be conducted by a number of persons in order to enable broad exchange of knowledge, skills and experience.
5. Other classes are organised in module system (both core classes and elective classes) with credits granted immediately after the completion of the module.
6. The classes programme at the Doctoral School covers five modules:
  - a. **general social module** – voice emission, auto-presentation, communication, interpersonal relations, legal, ethical and economic conditions of scientific activity, modern foreign language;
  - b. **methodology module** – research methodology, statistics, metrology, research methodology for the given field/discipline, econometric methods in scientific research, heuristics;
  - c. **teaching methods module** – academic teaching methods, vocational internship (without conducting classes, co-participation), teaching internship (conducting classes for students);
  - d. **legal and dissemination module** – intellectual property protection, scientific research findings commercialisation, preparing applications for research projects, science popularisation workshops;
  - e. **specialised module** (in the given field/ discipline) – doctoral seminars, Academic Writing in English, elective courses.
7. Doctoral students shall elect the elective courses on 2<sup>nd</sup> to 4<sup>th</sup> year of studies at the Doctoral School, one course in each semester, from the choice available. This enables them to carry out specialised classes in the area of the given field/ discipline of science.
8. Teaching methods / methodology courses are offered to groups of doctoral students who carry out research in similar fields / disciplines. Interested doctoral students from other scientific areas may join groups in other disciplines.
9. Most classes are organised in module system, in thematic blocks. This enables flexible planning of classes within the curriculum.
10. Within the specialised module, a doctoral student sets their own learning pathway selecting courses from among the choice of elective courses.

11. It is advised for the doctoral students who at the Doctoral School pursue studies in a discipline other than the discipline of their 2<sup>nd</sup> cycle studies or long-cycle master degree studies, to choose the elective courses in consultation with their supervisor so as to supplement their substantive competences as required.

### § 5. [Curriculum]

1. The curriculum comprises core classes and elective classes.
2. The core courses shall be carried out – depending on the number of doctoral students in the given discipline – in interdisciplinary groups (field/ discipline), and – in justified cases – all doctoral students jointly regardless of the topic of their research.
3. Elective courses start on the 2<sup>nd</sup> year of studies.
4. Starting from the 3<sup>rd</sup> Semester, in each Semester the doctoral students can choose courses from among 20 courses.
5. The doctoral students shall select courses from the choice of courses (by the end of the 2<sup>nd</sup> Semester – for the 2<sup>nd</sup> year, by the end of the 4<sup>th</sup> Semester – or the 3<sup>rd</sup> year, and by the end of the 6<sup>th</sup> Semester – for the 4<sup>th</sup> year of studies).
6. The framework curriculum for education at the Doctoral School of the Warsaw University of Life Sciences – SGGW, is presented in table 1.

**Table 1.** Framework curriculum at the Doctoral School of the Warsaw University of Life Sciences - SGGW

No.	Course title	Lecture	Class instruction	Tutorial	Total	Examination/ Credit (Z)
<b>Semester 1</b>		Courses pursued by all students of the Doctoral School of the Warsaw University of Life Sciences – SGGW				
1	Voice emission		10		10	Z
2	Auto-presentation, social communication, interpersonal relations		10		10	Z
3	Academic teaching methods	10			10	Z
4	Research methods	10			10	Z
5	Vocational internship (without conducting classes, co-participation)		10		10	Z
6	Modern foreign language		30		30	Z
7	Doctoral seminar I			15	15	Z
<i>Total</i>		<i>20</i>	<i>60</i>	<i>15</i>	<i>95</i>	<i>x</i>
<b>Semester 2</b>		Courses pursued by all students of the Doctoral School of the Warsaw University of Life Sciences – SGGW				
1	Legal, ethical and economic conditions of scientific activity	10			10	Z
2	Statistics/Metrology		15		15	Z
3	Intellectual property protection		10		10	Z
4	Academic Writing in English		10		10	Z
5	Vocational internship (without conducting classes, co-participation)		10		10	Z

6	Modern foreign language		30		30	Z
7	Doctoral seminar II			15	15	Z
<i>Total</i>		<i>10</i>	<i>75</i>	<i>15</i>	<i>100</i>	<i>x</i>
<b>Semester 3</b>		Pathways in the field/discipline				
1	Research methods in the field/discipline		10		10	Z
2	Preparing applications for research projects		10		10	Z
3	Research findings commercialisation		10		10	Z
4	Elective course*		10		10	Z
5	Modern foreign language		30		30	Z
6	Teaching internship		30		30	Z
7	Doctoral seminar III			15	15	Z
<i>Total</i>		<i>0</i>	<i>100</i>	<i>15</i>	<i>115</i>	<i>X</i>
<b>Semester 4</b>		Paths in the field/discipline				
1	Econometric methods in scientific research/ Heuristics		10		10	Z
2	Elective course*		10		10	Z
3	Modern foreign language		30		30	Z
4	Teaching internship		30		30	Z
5	Doctoral seminar IV			15	15	Z
<i>Total</i>		<i>0</i>	<i>80</i>	<i>15</i>	<i>95</i>	<i>X</i>
<b>Semester 5</b>		Pathways in the field/discipline				
1	Elective course*		10		10	Z
2	Modern foreign language		30		30	E
3	Teaching internship		30		30	Z
4	Doctoral seminar V			15	15	Z
<i>Total</i>		<i>0</i>	<i>70</i>	<i>15</i>	<i>85</i>	<i>x</i>
<b>Semester 6</b>		Pathways in the field/discipline				
1	Elective course*		10		10	Z
2	Teaching internship		30		30	Z
3	Doctoral seminar VI			15	15	Z
<i>Total</i>		<i>0</i>	<i>40</i>	<i>15</i>	<i>55</i>	<i>x</i>
<b>Semester 7</b>		Pathways in the field/discipline				
1	Science popularisation workshops		10		10	Z
2	Elective course*		10		10	E
3	Doctoral seminar VII			15	15	Z
<i>Total</i>		<i>0</i>	<i>20</i>	<i>15</i>	<i>35</i>	<i>x</i>
<b>Semester 8</b>		Pathways in the field/discipline				
1	Elective course*		10		10	E
2	Doctoral seminar VIII			15	15	Z
<i>Total</i>		<i>0</i>	<i>10</i>	<i>15</i>	<i>25</i>	<i>x</i>
<b>Total</b>		<b>30</b>	<b>455</b>	<b>120</b>	<b>605</b>	<b>x</b>

## § 6. [Curriculum organisation]

1. At a request of the head of the Doctoral School, the Discipline Councils propose the choice of courses (in the form of syllabuses), together with names of persons competent to conduct such courses, by the end of the 1<sup>st</sup> Semester (end of the winter Semester).
2. Members of the Advisory Board of the Doctoral School opine on and verify the course syllabuses. The head of the Doctoral School agrees with the Chair of the Discipline Council proposed changes to the curriculum.
3. Classes are conducted by persons who have specialised knowledge in the area provided for in the curriculum.
4. Staff members of particular Institutes, who specialise in the given issue, conduct interdisciplinary instruction – in the form of elective courses (available for all the doctoral students, regardless of their doctoral discipline).
5. Doctoral Students may elect 1 course per Semester, creating groups in accordance with § 3.5.
6. Doctoral seminars are conducted in groups of approximately 10 persons. It is allowed to join doctoral students from various disciplines in one group.
7. The contents presented during the elective courses contain world scientific achievements in the given field/discipline.
8. It is recommended for a first-year doctoral student to attend classes which the student will conduct in the given education programme during their teaching internship starting from the 2<sup>nd</sup> year of studies at the Doctoral School, in order to gain experience in conducting such type of classes.
9. A doctoral student shall carry out the teaching internship during the 2<sup>nd</sup> and 3<sup>rd</sup> year of studies, of 60 hours a year in total. The annual schedule of classes depends on the organisation of classes at the department at which the doctoral student prepares their doctoral dissertation (it is allowed to carry out 60 hours in one Semester, or 30 hours in each of two Semester).
10. It is recommended that at least one course per year should be conducted by visiting professors or co-supervisors.
11. A doctoral student is obliged to apply for placements in Poland and abroad, e.g. within Erasmus programme and NCN [*National Scientific Centre*] contests, or other.
12. A doctoral student shall be obliged to apply for financing for research projects.

**CHAPTER 3. LEARNING OUTCOMES AT THE DOCTORAL SCHOOL OF THE WARSAW  
UNIVERSITY OF LIFE SCIENCES - SGGW**

**§ 7. [Learning outcomes are referenced to particular categories and scopes]**

Table 2 presents learning outcomes referenced to particular categories and scopes carried out at the Doctoral School of the Warsaw University of Life Sciences – SGGW.

**Table 2.** Learning outcomes referred to specific categories and scopes (in accordance with the Regulation of the Minister of Science and Higher Education of 14 November 2018 on the characteristics of the second degree of learning outcomes for qualifications at levels 6-8 of the Polish Qualification Framework – Level 8 of the PQF)

Learning outcome symbol	Learning outcomes referenced to particular categories and scopes	Learning outcomes reference to the second degree characteristics of the National Qualification Framework (level 8 qualifications) covering doctoral competences
	<b>KNOWLEDGE – the graduate KNOWS and UNDERSTANDS: KNOWLEDGE – the graduate KNOWS and UNDERSTANDS</b>	
SD1_KW01 <sup>*)</sup>	To the extent enabling to revise the existing paradigms in the field/discipline – the world achievements, gathering theoretical background as well as general and selected detailed issues	P8S_WG
SD1_KW02	Major general development trends in the field/discipline	P8S_WG
SD1_KW03	Research methodology in the field/discipline, including data analysis software	P8S_WG
SD1_KW04	Applicable rules for scientific research findings dissemination in the field/discipline, including with use of e-communication	P8S_WG
SD1_KW05	Fundamental dilemmas of the modern world	P8S_WK
SD1_KW06	Economic, legal, ethical and other conditions of scientific activity	P8S_WK
SD1_KW07	Basic rules for transfer of knowledge to the economic and social area, as well as scientific research findings commercialisation	P8S_WK
	<b>SKILLS – the graduate IS ABLE TO:</b>	
SD1_KU01	Use the knowledge in various fields of science for the purpose of creative identification, formulation and innovative solving of complex research problems	P8S_UW
SD1_KU02	Define the objective and the subject of scientific research and verify the research hypothesis	P8S_UW
SD1_KU03	Develop research methods and creatively apply the research methods, techniques and tools characteristic for the field/discipline	P8S_UW



SD1_KU04	Draw properly conclusions on the basis of the research findings	P8S_UW
SD1_KU05	Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline	P8S_UW
SD1_KU06	Transfer the results of business activity to the economic and sociological sphere, to the extent characteristic for the field/discipline	P8S_UW
SD1_KU07	Competently select and use communication techniques; including active participation in international circles	P8S_UK
SD1_KU08	Disseminate the scientific activity results, also in popular-science and popular form	P8S_UK
SD1_KU09	Initiate discussions and participate in the scientific discourse	P8S_UK
SD1_KU10	Have command of a modern language in the area of the field/discipline at B2 level of the Common European Framework of Reference for Languages, and present research findings and conduct scientific discussions in international circles	P8S_UK
SD1_KU11	Plan individual and team research activities, also in international circles	P8S_UO
SD1_KU12	Plan and pursue their own personal development and other persons' development	P8S_UU
SD1_KU13	Use teaching skills and professional qualifications relating to teaching methods and techniques, including those relating to modern methods and techniques of conducting classes	P8S_UU
SD1_KU14	Plan and conduct classes	P8S_UU
	<b>COMPETENCES – the graduate IS READY TO:</b>	
SD1_KK01	Critically evaluate the achievements in the field/discipline represented	P8S_KK
SD1_KK02	Represent their standpoint in scientific discussions, also interdisciplinary ones	P8S_KK
SD1_KK03	Recognise knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect	P8S_KK
SD1_KK04	Responsibly fulfil professional roles, including the observance of professional ethics and developing knowledge regarding the profession practiced	P8S_KO
SD1_KK05	Establish interpersonal relations and affect proper social attitudes	P8S_KO
SD1_KK06	Initiate activities benefiting public interest	P8S_KO
SD1_KK07	Undertake creative and entrepreneurial thinking and acting	P8S_KO
SD1_KK08	Support the ethos of scientific circles and conduct independent research	P8S_KR
SD1_KK09	Observe the principle of public ownership of scientist activities results and good practice in science	P8S_KR

\*) explanation of codes: SD1 – Doctoral School first cycle; KW – Knowledge, KU – Skills, KK – Competences; 01, 02 (...) nn – consecutive numbers of learning outcomes.

## § 8. [Learning outcomes in reference to the module teaching system]

Table 3 presents the learning outcomes in reference to the module teaching system at the Doctoral School of the Warsaw University of Life Sciences - SGGW.

**Table 3.** Learning outcomes at the Doctoral School split into knowledge, skills and social competences for each module separately. The outcomes have been prepared from the view of a doctoral student who has been awarded the doktor degree (in accordance with the Regulation of the Minister of Science and Higher Education of 14 November 2018 on the characteristics of the second degree of learning outcomes for qualifications at levels 6-8 of the Polish Qualification Framework – Level 8 of the PQF)

Module	Graduate of the Doctoral School of the Warsaw University of Live Sciences – SGGW		
	Knowledge knows and understands:	Skills is able to:	Social competences is ready for:
General social module	<p><b>SD1_KW05</b> Fundamental dilemmas of the modern world</p> <p><b>SD1_KW06</b> Economic, legal, ethical and other conditions of scientific activity</p> <p><b>SD1_KW07</b> Basic rules for transfer of knowledge to the economic and social area, as well as scientific research findings commercialisation</p>	<p><b>SD1_KU01</b> Competently select and use communication techniques; including active participation in international circles</p> <p><b>SD1_KU02</b> Is able to plan and pursue their own personal development and other persons' development</p> <p><b>SD1_KU03</b> Initiate discussions and participate in the scientific discourse</p> <p><b>SD1_KU04</b> Have command of a modern language in the area of the field/discipline at B2 level of the CEFR</p>	<p><b>SD1_KK04</b> Responsible fulfilment of professional roles, including the observance of professional ethics and developing knowledge regarding the profession practiced</p> <p><b>SD1_KK05</b> Establishing interpersonal relations and affecting proper social attitudes</p> <p><b>SD1_KK06</b> Initiating activities benefiting public interest</p>
Methodology module	<p><b>SD1_KW02</b> Major general development trends in the field/discipline</p> <p><b>SD1_KW03</b> Research methodology in the field/discipline, including data analysis software</p>	<p><b>SD1_KU05</b> Use the knowledge in various fields of science for the purpose of creative identification, formulation and innovative solving of complex research problems</p> <p><b>SD1_KU06</b> Define the objective and the subject of scientific research and verify the research hypothesis</p> <p><b>SD1_KU07</b> Develop research methods and creatively apply the research methods, techniques and tools</p>	<p><b>DS1_KK02</b> Representing their standpoint in scientific discussions, also interdisciplinary ones</p> <p><b>DS1_KK08</b> Supporting the ethos of scientific circles and conducting independent research</p>

		<p>characteristic for the field/discipline</p> <p><b>SD1_KU08</b></p> <p>Draw properly conclusions on the basis of the research findings</p>	
Teaching methods module	<p><b>SD1_KW01</b></p> <p>To the extent enabling to review the existing paradigms in the field/discipline – the world achievements, gathering theoretical background as well as general and selected detailed issues</p> <p><b>SD1_KW02</b></p> <p>Major general development trends in the field/discipline</p> <p><b>SD1_KW05</b></p> <p>Carry out critical assessment of the scientific research findings and expert activities and their contribution to the knowledge development in the field/discipline</p>	<p><b>SD1_KU13</b></p> <p>Use teaching skills and professional qualifications relating to teaching methods and techniques, including those relating to modern methods and techniques of conducting classes</p> <p><b>SD1_KU13</b></p> <p>Plan and conduct classes</p>	<p><b>SD1_KK03</b></p> <p>Recognising knowledge in solving cognitive and practical problems characteristic for the area of research (field/discipline) and in an interdisciplinary aspect</p> <p><b>SD1_KK04</b></p> <p>Responsible fulfilment of professional roles, including the observance of professional ethics and developing knowledge regarding the profession practiced</p> <p><b>SD1_KK09</b></p> <p>Observing the principle of public ownership of scientist activities results and good practice in science</p>
Legal and dissemination module	<p><b>SD1_KW06</b></p> <p>Economic, legal, ethical and other conditions of scientific activity</p> <p><b>SD1_KW07</b></p> <p>Basic rules for transfer of knowledge to the economic and social area, as well as scientific research findings commercialisation</p>	<p><b>SD1_KU06</b></p> <p>Transfer the results of business activity to the economic and sociological sphere, to the extent characteristic for the field/discipline</p> <p><b>SD1_KU08</b></p> <p>Disseminate the scientific activity results, also in popular-science and popular form</p>	<p><b>DS1_KK08</b></p> <p>Supporting the ethos of scientific circles and conducting independent research</p> <p><b>SD1_KK09</b></p> <p>Observing the principle of public ownership of scientist activities results and good practice in science</p>
Specialised module (related to the field/discipline)	<p><b>SD1_KW01</b></p> <p>To the extent enabling to review the existing paradigms in the field/discipline – the world achievements, gathering theoretical background as well as general and selected detailed issues</p> <p><b>SD1_KW02</b></p> <p>Major general development trends in the field/discipline</p> <p><b>SD1_KW02</b></p> <p>Applicable rules for scientific research findings dissemination</p>	<p><b>SD1_KU01</b></p> <p>Use the knowledge in various fields of science for the purpose of creative identification, formulation and innovative solving of complex research problems</p> <p><b>SD1_KU04</b></p> <p>Have command of a modern language in the area of the field/discipline at B2 level of the CEFRL <b>SD1_KU11</b></p> <p>Carry out critical assessment of the scientific</p>	<p><b>SD1_KK01</b></p> <p>Critical evaluation of the achievements in the field/discipline represented</p> <p><b>SD1_KK02</b></p> <p>Representing their standpoint in scientific discussions, also interdisciplinary ones</p> <p><b>SD1_KK07</b></p> <p>Creative and entrepreneurial thinking and acting</p>

	in the field/discipline, including with use of e-communication	research findings and expert activities and their contribution to the knowledge development in the field/discipline	
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### § 9. [Learning outcomes mapping in reference to the curriculum]

Table 4 presents the learning outcomes mapping matrix in reference to the curriculum at the Doctoral School of the Warsaw University of Life Sciences - SGGW.

**Table 4.** The learning outcomes mapping matrix in reference to the curriculum at the Doctoral School of the Warsaw University of Life Sciences - SGGW in accordance with PQF 8 (in accordance with the regulation of the Regulation of the Minister of Science and Higher Education of 14 November 2018 on the characteristics of the second degree of learning outcomes for qualifications at levels 6-8 of the Polish Qualification Framework – Level 8 of the PQF).

No.	Course title	Qualification framework/ learning outcomes	
<b>Semester 1</b>			
1	Voice emission	P8S_KK	
2	Auto-presentation, social communication, interpersonal relations	P8S_UU	
3	Academic teaching methods	P8S_UW	
4	Legal, ethical and economic conditions of scientific activity	P8S_WK	P8S_WG
5	Vocational internship (without conducting classes, co-participation)	P8S_KO	P8S_WG
6	Modern foreign language	PS8_UK	
7	Doctoral seminar I	P8S_KK	
<b>Semester 2</b>			
1	Research methods	P8S_WG	
2	Statistics/Metrology	P8S_UW	P8S_KR
3	Intellectual property protection	P8S_KO	P8S_UK
4	Academic Writing in English	P8S_KR	
5	Vocational internship (without conducting classes, co-participation)	P8S_KO	P8S_WG
6	Modern foreign language	PS8_UK	
7	Doctoral seminar II	P8S_KK	
<b>Semester 3</b>			
1	Research method in the field/discipline	P8S_UW	P8S_KR
2	Preparing applications for research projects	P8S_WK	P8S_KR
3	Research findings commercialisation	P8S_KO	P8S_UK
4	Elective course*	P8S_KR	
5	Modern foreign language	PS8_UK	
6	Teaching internship	P8_SKO	P8S_UU
7	Doctoral seminar III	P8S_KK	

<b>Semester 4</b>			
1	Econometric methods in scientific research/ Heuristics	P8S_UW	P8S_KR
2	Elective course*	P8S_KR	
3	Modern foreign language	PS8_UK	
4	Teaching internship	P8_SKO	P8S_UU
5	Doctoral seminar IV	P8S_KK	
<b>Semester 5</b>			
1	Elective course*	P8S_KR	
2	Modern foreign language	PS8_UK	
3	Teaching internship	P8_SKO	P8S_UU
4	Doctoral seminar V	P8S_KK	
<b>Semester 6</b>			
1	Elective course*	P8S_KR	
2	Teaching internship	P8_SKO	P8S_UU
3	Doctoral seminar VI	P8S_KK	
<b>Semester 7</b>			
1	Science popularisation workshops	P8S_KO	P8S_UK
2	Elective course*	P8S_KR	
3	Doctoral seminar VII	P8S_KK	
<b>Semester 8</b>			
1	Elective course*	P8S_KR	
2	Doctoral seminar VIII	P8S_KK	

### § 10. [Crediting rules]

1. A doctoral student is obliged to carry out the curriculum in accordance with the rules set out in § 5.
2. At the end of each Semester (determined in accordance with the academic year organisation applicable at the Warsaw University of Life Sciences) during the studies, a doctoral student is obliged to complete the curriculum courses and to submit to Doctoral School secretariat the Semester credit sheet complying with the uniform form.
3. Credits for the courses are given in accordance with the following grading scale:

Descriptive grade	Grade in numbers	Grade symbol
Bardzo dobry [ <i>Very good</i> ]	5.0	A
Dobry plus [ <i>Good plus</i> ]	4.5	B
Dobry [ <i>Good</i> ]	4.0	C
Dostateczny plus [ <i>Satisfactory plus</i> ]	3.5	D
Dostateczny [ <i>Satisfactory</i> ]	3.0	E
Niedostateczny [ <i>Fail</i> ]	2.0	F – fail

4. At the end of each academic year (by 30 September), a doctoral student shall submit to the head of the Doctoral School the report on doctoral dissertation progress with the supervisor's opinion. The doctoral student shall prepare the report using the uniform form.

5. No later than by the end of the first year of studies, the doctoral student shall submit to the head of the Doctoral School, the Individual Research Plan (the IRP), with the opinion of the Chair of the Discipline Council.
6. The procedure to award the doktor degree may be initiated at any stage of the studies at the Doctoral School, subject to attaching with the application to initiate the doctoral dissertation a positive opinion from the supervisor or supervisors, a co-supervisor, and obtaining qualifications at the 8 level of the PQF.
7. The condition to obtain credit for consecutive years of studies – in accordance with the curriculum at the Doctoral School and implantation of the IRP:
  - a. The condition to obtain credits and complete the first year of studies is obtaining credits for the courses provided for in the curriculum and to submit the Individual Research Plan, as well as the conspectus of the doctoral paper containing the topic, research objective, research hypothesis, research methods, review of world literature on the selected subject.
  - b. The IRP and the conspectus are subject to opinion by the supervisor (supervisor, co-supervisor) and then it shall be submitted by the Chair of the Discipline Council to the head of the Doctoral School by 30 September.
  - c. The condition to obtain credits and complete the second year of studies is to obtain credits for the courses provided for in the curriculum, a positive result of the mid-term evaluation, the completion of the schedule set out in the IRP, and preparing a fragment of the doctoral paper and/or an article in a peer-reviewed scientific journal. An opinion whether the said conditions have been met shall be submitted in writing to the head of the Doctoral School by the Chair of the Discipline Council by 30 September.
  - d. The condition to obtain credits and complete the third year of studies is to obtain credits for the courses provided for in the curriculum, a positive result of the mid-term evaluation, the completion of the schedule set out in the IRP, and preparing at least the second chapter of the doctoral dissertation /or article(s) (in particular, it is recommended to publish articles in journals having IF). An opinion whether the said conditions have been met shall be submitted in writing to the head of the Doctoral School by the Chair of the Discipline Council by 30 September.
  - e. The condition to obtain credits and complete the fourth year is to complete the curriculum at the Doctoral School and to obtain positive grades for the courses pursued in the source of the studies and submitting the doctoral dissertation by 30 September.
8. In exceptional justified cases, the head of the Doctoral School may postpone the deadline for the doctoral student to submit the documents relating to completion of particular years of study.
9. The purpose of opinions on the scientific progress of the doctoral students of the Doctoral School issued by the Chairs of the Discipline Councils is to monitor the regular implementation of the doctoral student's research and scientific development, but, primarily, to provide the young scientist with substantive support.
10. Additional elements taken into account in evaluating the doctoral student is the student's active dissemination and implantation (e.g., popular-science publications and publications popularising the knowledge, participation in conferences, public lectures, participation in scientific festivals) and training and scientific placements, applications for science grants and implantation of the same.

## **§ 11. [Characteristics of the modules and objectives pursued in the area of particular classes within the curriculum]**

1. **General social module** – the purpose of lectures provided in the courses comprised in the module is to enable the doctoral students to gain the skills of speaking freely and presenting professionally the research findings, establishing interpersonal contacts easily, not only at the doctoral school and in scientific circles, but also internationally. In this area, the auto-presentation and proper voice projection (to protect one's health) – later in the course of the studies, this skill will prove useful while conducting classes for students.
2. **Methodology module** – contains a set of specially selected classes during which the doctoral students – first at classes common for all the students, and then within their field/discipline-specific specialisation pathways, will gain the skills of proper selection and application of research methods. One of the main conditions to prepare high-quality scientific studies is the knowledge of and ability to apply methods characteristic for the given area of research.
3. **Teaching methods module** – within the module the doctoral student should become familiar with the entire scope of work of academic teaching and research staff, and after having completed the module the doctoral student should be ready for teaching the students. For this purpose, during the teaching methods module, the student becomes familiar with academic teaching methods and performs internship – first observing experienced academic teaching staff and co-participating in the classes, and then carrying out their own student classes in accordance with the curriculum.
4. **Legal and dissemination module** – the purpose of the module is to establish links between the research and teaching work with the past achievements of eminent scientists. In order to be able to benefit from the Polish and world achievements in compliance with ethical and legal standards, during the legal and dissemination module the students will have an opportunity to familiarise themselves with issues regarding protection of intellectual property and commercialisation of research results. As research activity involves also applying for research projects, the module also contains a course at which the doctoral students will have an opportunity to learn about the rules for preparing applications for research projects and they will also participate in science popularisation workshops.
5. **Specialised module (in the field/discipline)** – is carried out at each stage of studies at the Doctoral School of the Warsaw University of Life Sciences – SGGW, to enable the doctoral students to pursue their individual development pathways in the given field/discipline by selecting elective courses, flexible formulation of their classes schedule during semesters, participating in seminars as well as in training courses and placements.

## **§ 12. [Learning outcomes mapping matrix in accordance with 8PQF]**

No.	Learning OUTCOME/ Learning outcome SYMBOL	KNOWLEDGE – the graduate KNOWS and UNDERSTANDS														SKILLS – the graduate IS ABLE TO										COMPETENCIES – the graduate IS READY TO										
		SD1_K W01	SD1_K W02	SD1_K W03	SD1_K W04	SD1_K W05	SD1_K W06	SD1_K W07	SD1_K U01	SD1_K U02	SD1_K U03	SD1_KU04	SD1_K U05	SD1_K U06	SD1_K U07	SD1_KU08	SD1_K U09	SD1_K U10	SD1_K U11	SD1_K U12	SD1_K U13	SD1_KU14	SD1_K K01	SD1_K K02	SD1_K K03	SD1_K K04	SD1_K K05	SD1_K K06	SD1_K K07	SD1_K K08	SD1_K K09					
1	Voice emission				X			X							X							X														
2	Auto-presentation, social communication, interpersonal relations				X				X	X	X	X	X	X	X	X	X	X	X	X	X	X							X				X			
3	Academic teaching methods							X			X	X	X	X	X	X	X	X	X	X	X	X													X	
4	Modern foreign language					X									X					X																
5	Legal, ethical and economic conditions of scientific activity	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X							X				X	X		
6	Vocational internship (without conducting classes, participation)	X						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X														
7	Doctoral seminar I		X																																	
8	Research methods		X							X	X	X	X	X	X	X	X	X	X	X	X	X											X			
9	Statistics/Metrology	X	X																																	
10	Intellectual property protection				X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X													X	X
11	Academic Writing in English				X				X	X	X	X	X	X	X	X	X	X	X	X	X	X														
12	Doctoral seminar II		X																																	
13	Research method in the field/discipline		X																																	
14	Preparing applications for research projects		X	X	X			X																												
15	Research findings commercialization				X			X																												
16	Elective course*	X	X									X																								
17	Teaching internship							X																												
18	Doctoral seminar III		X	X									X	X																						
19	Elective course*	X	X																																	
20	Doctoral seminar IV		X	X																																
21	Economic methods in scientific research/ Heuristics	X	X												X																					
22	Elective course*	X	X																																	
23	Doctoral seminar V		X	X																																
24	Elective course*	X	X																																	
25	Doctoral seminar VI		X																																	
26	Science popularisation workshops				X				X																											
27	Elective course*	X	X																																	
28	Doctoral seminar VII		X	X																																
29	Elective course*	X	X																																	
30	Doctoral seminar VIII		X	X																																