

# EDUCATIONAL PROGRAM AT THE DOCTORAL SCHOOL AT GDANSK UNIVERSITY OF PHYSICAL EDUCATION AND SPORT

THE DOCTORAL SCHOOL EDUCATES CANDIDATES FOR THE ACADEMIC DEGREE OF DOCTOR IN THE FIELD OF MEDICAL AND HEALTH SCIENCES IN THE DISCIPLINE OF PHYSICAL CULTURE SCIENCES. THE EDUCATIONAL PROGRAM AT THE DOCTORAL SCHOOL PREPARES YOU FOR RESEARCH AND TEACHING WORK AND ENABLES YOU TO ACQUIRE THE KNOWLEDGE, SKILLS AND SOCIAL COMPETENCES REQUIRED FOR THE LEVEL 8 OF THE POLISH QUALIFICATIONS FRAMEWORK (PRK).

TAB. 1. Description of learning outcomes after graduating from the Doctoral School				
(1) Learning outcomes symbols for the education program		(2) The graduate achieves the following learning outcomes:	(3) Reference to	
			first degree (universal) PRK characteristics	characteristics of the second level of the PQF for qualifications obtained in higher education
KNOWLEDGE - THE GRADUATE KNOWS AND UNDERSTANDS:				
1.	SD_W01	the latest scientific achievements and theories regarding phenomena and processes in the field of physical culture sciences, taking into account global achievements, in particular in relation to their own field of scientific activity;	P8U_W	P8S_WG
2.	SD_W02	main development trends in physical culture sciences, including the field of competitive sports and health-promoting physical activity, taking into account both their biological and psychosocial aspects;	P8U_W	P8S_WG
3.	SD_W03	advanced terminology in the field of physical culture sciences	P8U_W	P8S_WG
4.	SD_W04	methods and tools and also principles of their use in carrying out scientific research or development work in the field of physical culture sciences;	P8U_W	P8S_WG
5.	SD_W05	methods and tools for obtaining, collecting, using and making scientific data available (including IT tools; databases of scientific publications, registers of scientific research; database repositories);	P8U_W	P8S_WG

6.	SD_W06	legal, social, ethical and philosophical aspects of conducting scientific activities in the field of physical culture sciences, including intellectual property issues;	P8U_W	P8S_WK
7.	SD_W07	principles of preparation and evaluation criteria of scientific publications in renowned domestic and foreign scientific journals and principles of financing scientific publications;	P8U_W	P8S_WK
8.	SD_W08	principles of oral presentation and posters with research results and the importance of these scientific reports for one's own development and the discipline of physical culture sciences;	P8U_W	P8S_WG
9.	SD_W09	methods of obtaining and settling funds for the implementation of research or implementation projects in the field of physical culture sciences;	P8U_W	P8S_WK
10.	SD_W10	methodology and modern techniques of conducting teaching classes	P8U_W	P8S_WK
11.	SD_W11	the importance and principles and tools of disseminating the results of scientific activities, including in the open access mode and in popular science forms;	P8U_W	P8S_WG
12.	SD_W12	the importance of transferring scientific knowledge from the area of physical culture sciences to the economic and social sphere.	P8U_W	P8S_WK
<b>SKILLS - THE GRADUATE CAN/IS ABLE TO:</b>				
13.	SD_U01	effectively obtain information related to scientific activities from various sources, in particular from scientific databases (including international databases of scientific publications and registers of research projects), as well as critically evaluate this information; make their proper selection, analysis and interpretation;	P8U_U	P8S_UW
14.	SD_U02	pose and creatively solve scientific problems, as well as plan and implement scientific research or development work, using the latest global, interdisciplinary knowledge and in accordance with the assumptions of methodology specific to physical culture sciences;	P8U_U	P8S_UW P8S_UO
15.	SD_U03	obtain and collect scientific data, including in the form of databases, necessary to achieve the assumed scientific goals;	P8U_U	P8S_UW
16.	SD_U04	analyze qualitative and quantitative data, including the usage of statistical analysis methods and tools, and present scientific data in graphical form;	P8U_U	P8S_UW
17.	SD_U05	interpret the obtained research results and draw conclusions from them, including applications in the context of supporting the development of the discipline of physical culture sciences and social and economic development;	P8U_U	P8S_UW
18.	SD_U06	work in a research team in the field of physical culture sciences, performing various roles in it, depending on professional competences and scientific skills;	P8U_U	P8S_UO P8S_UU

19.	SD_U07	create and edit scientific texts in Polish and English, in accordance with the requirements of domestic and foreign scientific journals, including: the usage of the rules of referring to other people's work and tools for creating bibliographies.	P8U_U	P8S_UK
20.	SD_U08	prepare oral presentations in Polish and English in relation to one's own area of scientific activity;	P8U_U	P8S_UK
21.	SD_U09	organize, conduct and participate in scientific sessions and discussions related to physical culture sciences;	P8U_U	P8S_UK
22.	SD_U10	critically assess the substantive value of research conducted by other scientists and prepare a reliable review of a scientific text or scientific project;	P8U_U	P8S_UW
23.	SD_U11	effectively search for information on competitions aimed at financing scientific activities by domestic or foreign entities and write an application for financing scientific activities, consistent with one's own research topic in the field of physical culture sciences;	P8U_U	P8S_UW
24.	SD_U12	conduct teaching classes in the area of physical culture sciences using modern teaching techniques	P8U_U	P8S_UU
25.	SD_U13	use a foreign language at level B2 of the Common European Framework of Reference for Languages, to an extent that enables participation in the international scientific community in the field of physical culture sciences.	P8U_U	P8S_UK

#### SOCIAL COMPETENCES - THE GRADUATE IS READY TO:

26.	SD_K01	critical assessment of global scientific achievements in the field of physical culture sciences;	P8U_K	P8S_KK
27.	SD_K02	critical assessment of one's own scientific work, professional and research competences and one's own contribution to the development of physical culture sciences;	P8U_K	P8S_KK
28.	SD_K03	responsible undertaking of professional tasks in the academic community (e.g. lecturer, researcher) and behaving in a professional manner and observing the principles of professional ethics;	P8U_K	P8S_KO
29.	SD_K04	scientific activities in an independent and creative way, as well as showing initiative in creating new ideas and searching for innovative solutions in the field of physical culture sciences;	P8U_K	P8S_KR
30.	SD_K05	belonging to the scientific community, following its ethical principles and taking actions aimed at its development, in particular in the area of physical culture sciences;	P8U_K	P8S_KR; P8S_KO
31.	SD_K06	respecting the principles of intellectual property protection in scientific activities.	P8U_K	P8S_KR

#### Explanations of the abbreviations used:

SD (before the underscore) – learning outcomes defined for the doctoral school program  
W (after underscore) – effects from the knowledge category  
U (after underscore) – effects from the skill category  
K (after underscore) – effects from the category of social competences  
P8 – level 8 of the Polish Qualifications Framework (PRK)

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P8 – level 8 of the Polish Qualifications Framework (PRK)  
U (before the underscore) – universal characteristics of the levels in the PQF  
S – characteristics of the second level of PQF levels in higher education  
WG – descriptive categories of knowledge: scope and depth  
WK – descriptive categories of knowledge: context  
UW – descriptive categories of skills: use of knowledge  
UK – skill descriptive categories: communication  
UO – descriptive categories of skills: work organization  
UU – skill descriptive categories: learning  
KK – descriptive categories of competences: assessments  
KO – descriptive categories of competences: responsibility  
KR – descriptive categories of competences: professional role

**Tab. 2. SCHEDULE FOR THE IMPLEMENTATION OF THE EDUCATIONAL PROGRAM  
IN THE DOCTORAL SCHOOL**

Lp.	Classes module	1st year		2nd year		3rd year		4th year		Number of hours:
		I	II	III	IV	V	VI	VII	VIII	
General subjects										
1.	Contemporary trends in physical culture sciences	6	6	6	6	9	9	6		48
2.	Ethics in scientific research	3								3
3.	Methodology of scientific research	6	6	6	6					24
4.	Statistical methods in scientific research	6	6	6	6	6	3			33
5.	Advanced database searching	6	6							12
6.	Use of bibliography managers	6								6
7.	Presentation of research results	3	3	3	3	3	3	6		24
8.	Methods of preparing a scientific text	3	3	3	3					12
9.	Applying for research funding		3	3	3					9
10.	Intellectual property law			3						3
11.	Interdisciplinarity of scientific research			3	3	3	3			12
12.	Research project management				3	3	3	3		12
13.	Interpersonal communication in the research team					3	3			6
14.	Managing a research team					3	3			6
15.	Philosophy of science					3				3
16.	Personal development of a scientist					3	3			6
17.	Bibliometric analysis							3		3
18.	Teaching in higher education		3	3						6
number of hours:		36	36	36	36	36	27	18	0	228
Seminar module:										
19.	Doctoral seminar	12	12	12	12	12	24	30	30	144
20.	Discussion forum	6	6	6	6	6	6	6		42
21.	Reporting session	6	6	6	6	6	6	6		42
number of hours:		24	24	24	24	24	36	42	30	228
Teaching practices:										
22.	Teaching practices	30	30	30	30	30	30	30	30	240
Total number of educational hours:										696

**TABLE 3. EDUCATIONAL PROGRAM - DESCRIPTION OF THE PROCESS LEADING TO ACHIEVING LEARNING OUTCOMES AT LEVEL 8 PRK**

No.	Classes or group of classes	Learning outcomes symbols	Program content	Forms and methods of education	Methods of verifying and assessing the learning outcomes achieved by the student throughout the entire education cycle
<b>General subjects:</b>					
1.	Contemporary trends in physical education	SD_W02 SD_W01 SD_W03 SD_W04 SD_U10 SD_K01 SD_K02	1. Selected issues related to contemporary research and practical trends in competitive sports and health-promoting physical activity. 2. Methods and tools, including innovative and interdisciplinary ones, used in scientific research and development work in selected areas of physical culture. 3. Possibilities and importance of transferring scientific knowledge and innovative solutions from the area of physical culture sciences to the economic and social sphere.	Theoretical and practical classes  Lecture, multimedia presentation, description, talk, practical classes	Oral statements
2.	Ethics in scientific research	SD_W07 SD_U12 SD_U10 SD_KS01 SD_KS02 SD_KS03 SD_KS05	1. The concept of philosophy, the role of philosophy in the contemporary world, branches of philosophy. Philosophy and ethics. The role of ethics, branches of ethics. The ethics of the researcher and teacher profession. Ethics and morality and custom. 2. The specificity and role of ethics in science as a detailed expression of general ethics. 3. Codes of ethics in science – good practices in scientific research and reviewing scientific papers. Gross misconduct in scientific activity. 4. Codes of ethics for teachers – threats and moral obligations of teachers. 5. Animal ethics – the moral dimension of using animals in scientific research.	Theoretical and practical classes  Conversational lecture with multimedia presentation; teamwork using multimedia tools (Jamboard)	Practical case study; structured debate

3.	Research methodology	SD_W01 SD_W04 SD_W05 SD_W02 SD_W03 SD_W13 SD_U02 SD_U01 SD_U05 SD_U07 SD_K01 SD_K04	<p>1. The concept of science and its correct understanding.</p> <p>2. Concepts concerning the methodology of scientific research, in particular in the area of physical culture sciences.</p> <p>3. Objectives and functions of scientific activity in contemporary society, including basic research, application research and development work.</p> <p>4. Various models of scientific research and development work and research tools typical for the area of physical culture sciences.</p> <p>5. Observation and its varieties, examples of observational research in the area of physical culture sciences.</p> <p>6. Experiment and its varieties, examples of experimental research in the area of physical culture sciences.</p> <p>7. Diagnostic survey method. Types and structure of questionnaires and examples of commonly used questionnaires in physical culture sciences.</p> <p>8. Principles of formulating the research objective, research questions and hypotheses in scientific work and selecting the right research methods and tools.</p> <p>9. Assumptions for designing, implementing, controlling and evaluating scientific research and development work in the area of physical culture sciences.</p> <p>10. International standards for conducting and assessing scientific activities, in particular in relation to the area of physical culture sciences (i.e. the Helsinki Declaration, CONSORT Standards, STROBE, CERT, DORA).</p>	<p>Theoretical and practical classes</p> <p>Lecture with multimedia presentation; talk; didactic discussion</p>	<p>Samples of work in the form of preparing a description of the methodology of scientific activity; structured debate</p>
4.	Statistical methods in scientific research	SD_W05 SD_W06 SD_W03 SD_U03 SD_U04 SD_K04	<p>2. Principles of data preparation, data processing, creating graphs.</p> <p>3. Assumptions of data analysis (tests: Shapiro-Wilk, Brown-Forsyth, Mauchly), verification of outliers.</p> <p>4. Basic statistical analysis (tests for two dependent and independent samples)</p> <p>5. Examination of the relationship between variables (covariance, correlation, simple regression)</p>	<p>Theoretical and practical classes</p> <p>Laboratory classes; individual work</p>	<p>Samples of work in the form of preparing a database and performing statistical analysis (independent preparation of a research report)</p>

			6. One-way analysis of variance. 7. Advanced statistical analysis, selection of appropriate data analysis methods: two-way analysis of variance (with and without repetitions), regression analysis and other advanced statistical analyses. 8. Practical application of statistics in research.		
5.	Advanced database search	SD_W06 SD_W12 SD_U01 SD_U03 SD_K02	1. Database as a tool. 2. Types of databases. 3. Planning information search strategies. 4. Keywords, masking techniques, filters, operators. 5. Search query - practical use. 6. Tools for creating search strategies. 7. Types of access to publications, definition of "open access" publications. 8. Scientific and popular science works. 9. Critical evaluation of found information.	Theoretical and practical classes  Description; practical classes using computer programs	Database search practice task with discussion
6.	Using bibliography managers	SD_W06 SD_U01 SD_K02	1. Bibliography manager as a tool supporting the work of a scientist. 2. Examples of bibliography managers. 3. Characteristics of the EBSCOhost platform and possibilities of use 4. Practical classes using bibliography managers.	Practical and theoretical classes  Lecture; multimedia presentation; demo show; practical classes using computer programs	Practical task on the use of the bibliography manager
7.	Presentation of research results	SD_W09 SD_U08 SD_U09 SD_U14 SD_K03 SD_K02 SD_K04 SD_K06	1. The importance and challenges of presenting. Developmental benefits of presenting. 2. The basics of effective presentations. 3. Presentation organization. 4. The process of preparing and delivering a presentation. 5. The specifics of a scientific presentation 6. Creating effective slides (background, font, structure, animations, images, graphs, citations). 7. Techniques for effectively starting and ending a presentation (examples of successful openings and endings). 8. Principles for increasing self-confidence during presentations.	Practical and theoretical classes  Lectures conducted in an informative and conversational form using multimedia presentations; practical classes from multimedia presentations prepared by doctoral students	Practical task involving the presentation of research results; samples of work from individual elements of a multimedia presentation; free-form debate



			<p>9. The art of discussion (participation, articulating opinions, expressing agreement or disagreement, clarifying positions).</p> <p>10. Independent preparation and delivery of presentations by doctoral students, in Polish and English.</p>		
8.	Methods of preparing a scientific text	SD_W08 SD_W03 SD_W12 SD_U07 SD_U01 SD_U02 SD_U05 SD_U12 SD_K02 SD_K03 SD_K04 SD_K06	<p>1. Basics of writing a scientific text.</p> <p>2. Formulating a topic taking into account the requirements of contemporary science and a specific journal.</p> <p>3. The role of the abstract and keywords in a scientific text.</p> <p>4. Preparing a proper introduction in a scientific article.</p> <p>5. Description of the research methodology, research subjects, research methods used and statistical analysis.</p> <p>6. Ethical requirements in preparing a scientific text.</p> <p>7. Principles of presenting results in a scientific text.</p> <p>8. Structure of a proper discussion taking into account a critical assessment of your own research.</p> <p>9. Additional requirements before submitting a paper to a journal.</p> <p>10. Submitting a paper to a scientific journal.</p> <p>11. Correspondence with the editor and reviewers.</p> <p>12. Systematic reviews and meta-analyses based on PRISMA guidelines.</p>	<p>Theoretical and practical classes</p> <p>Multimedia presentations; practical classes in the preparation of a scientific text; discussion</p>	Samples of work on preparing fragments of scientific text with discussion
9.	Applying for research funding	SD_W10 SD_W13 SD_U11 SD_K03	<p>1. Fundamentals of science financing in Poland; Polish and foreign institutions financing science, sample competitions, with particular emphasis on the competitions of the National Science Centre (NCN).</p> <p>2. Possibilities and sources of financing for research projects carried out by young scientists.</p> <p>3. Preparation of an application for financing a research project (e.g. in the PRELUDIUM competition), elements</p>	<p>Theoretical and practical classes</p> <p>Multimedia presentations, practical classes in the preparation of an application for financing a scientific project</p>	Samples of work on the preparation of fragments or the entire application for funding of a scientific project with a discussion

			<p>of the application form in the financing streams management system (OSF).</p> <p>4. Summary, popular science summary</p> <p>5. Eligible and ineligible costs, indirect costs, financing of works in "open access", preparation of a cost estimate.</p> <p>6. Familiarization with the application evaluation system (expert panel, reviewers).</p> <p>7. Fundamentals of financial management in the project and project settlement.</p>		
10.	Intellectual property law	SD_W07 SD_U12 SD_U09 SD_K05 SD_K06	<p>1. Intellectual property law: copyright law, industrial property law, overview of legal acts.</p> <p>2. Personal and property rights.</p> <p>3. Public domain.</p> <p>4. Orphan works, author's interest, public interest.</p> <p>5. Permitted private and public use, including scientific and teaching activities.</p> <p>6. Quotation law.</p> <p>7. Derivative works.</p> <p>8. Transfer of property rights.</p>	<p>Theoretical-practical classes</p> <p>Lecture, discussion, practical classes in the form of solving cases</p>	<p>A practical task consisting in preparing a written response to a given case; a structured debate</p>
11.	Interdisciplinarity of scientific research	SD_W01 SD_W02 SD_W04 SD_W05	<p>1. The concept and specificity of interdisciplinarity in science.</p> <p>2. Transdisciplinarity - integration of social, health and physical culture sciences.</p>	<p>Theoretical-practical classes</p> <p>Multimedia presentation; discussion; brainstorming;</p>	<p>Free debate, practical task consisting in preparing an interdisciplinary research</p>

		SD_U02 SD_U09 SD_K04 SD_K01	3. The importance of complexity in research on human health and physical activity. 4. Examples of the use of various disciplines in scientific work in the field of physical culture. 5. Application of the Rayyan application in creating interdisciplinary systematic reviews. 6. Planning research taking into account the latest and creative scientific achievements	practical classes in the form of preparing a project or its fragments	project or its fragments with discussion
12.	Research project management	SD_W05 SD_W04 SD_W03 SD_W13 SD_U02 SD_U01 SD_U06 SD_U10 SD_U14 SD_K04 SD_K02 SD_K05	1. Formulating the research project objective based on the analysis of resources and environmental conditions. 2. Defining the stages of research project implementation, taking into account the assumptions of milestones. 3. Shaping the project team, defining the scope of competences of its members. 4. Defining the schedule and budget of the research project and its sources of financing. 5. Identifying the limitations and risks of the research project. 6. Evaluating the scientific, economic and social benefits of the research project.	Theoretical-practical classes  Teamwork; analysis of critical events; case analysis; discussion; practical classes in the form of preparing a research project or its fragments	Practical task consisting of team preparation of a research project or its fragments with discussion;  Observation in simulated conditions
13.	Interpersonal communication in the research team	SD_W07 SD_W04 SD_U06 SD_U12 SD_K03 SD_K05	1. The concept and importance of interpersonal communication in a research team  2. Team formation phases according to Bruce Tuckman.  3. Team roles according to Meredith Belbin	Theoretical-practical classes  Lecture with multimedia presentation; discussion; practical classes in the form of analysis of one's own team role	Oral statements
14.	Research team management	SD_W05 SD_W04 SD_U1 SD_U6 SD_U14 SD_K04 SD_K05 SD_K03	1. Planning and organization of the research team's work. 2. Communication, cooperation and smooth workflow of the research team within the project. 3. Monitoring and transparency of the research team's activities in terms of increasing the involvement of its members. 4. Digitalization of the research team's cooperation.	Theoretical-practical classes  Simulation games; teamwork; critical event analysis; discussion; practical classes in the field of research team management	Practical task in selected elements of research team management with discussion; observation in simulated conditions

15.	Philosophy of science	SD_W07 SD_W02 SD_W03 SD_U12 SD_U09 SD_K01 SD_K03	1. The phenomenon of science. The meaning of science, the concept of science, the importance of the classification of sciences. The humanities and social sciences and the sciences of physical culture. 2. Science and philosophy. Philosophy of science – the concept, the problems. 3. Rationality of science. The problem of defining the goal of science. Relativism in the philosophy of science. 4. The development of science. The problem of progress in science – cumulativeism, anti-cumulativeism, the principle of correspondence. Selected theories of the development of science. 5. Limitations and boundaries of science.	Theoretical-practical classes  Conversational lecture with multimedia presentation.	Structured debate
16.	Personal development of a scientist	SD_W07 SD_W04 SD_U12 SD_K02 SD_K05	1. The concept of professional and social competences, the scientist's workshop and personal development. 2. Perseverance in action - techniques for setting goals in scientific activity. 3. Scientific development, different career paths for scientists (business and sports). 4. The importance and techniques of stress reduction; mindfulness for scientists.	Theoretical-practical classes  Lecture with multimedia presentation; practical classes in setting priority goals in the project; meditation classes	Oral statements; practical task consisting of performing meditation classes
17.	Bibliometric analysis	SD_W06 SD_U03 SD_K02	1. Knowledge of indicators used for bibliometric analyses: impact factor, citations, ministerial points from the discipline of physical culture sciences. 2. Open Researcher and Contributor ID (ORCID) profile, updating the ORCID profile. 3. Practical use of the Web of Science and Scopus platforms. 4. Principles of creating a search query in the Expertus database (slots, analysis, ranking).	Theoretical-practical classes  Practical classes using computer programs; discussion	A practical task consisting in performing a bibliometric analysis and updating the ORCID profile with a discussion
18.	Higher school teaching	SD_W11 SD_W03 SD_U13 SD_K02 SD_K03	1. Introduction to higher education teaching.  2. The essence of the teaching profession.	Theoretical-practical classes  Problematic lecture; lecture with multimedia presentation; moderated discussion; situational game	Oral statements;  practical task in the form of a situational game - conducting a fragment of a class on any topic; reflective

			3. Teaching and learning methods with particular emphasis on activating methods.		essay on social and personal competences
			4. Preparing an effective lecture.		
<b>Seminar module:</b>					
19.	Doctoral seminar	SD_W01 SD_W04 SD_W03 SD_W05 SD_W06 SD_W07 SD_W08 SD_W09 SD_W12 SD_U01 SD_U02 SD_U03 SD_U04 SD_U05 SD_U06 SD_U07 SD_U08 SD_K01 SD_K02 SD_K03 SD_K04 SD_K05 SD_K06	1. The role of the seminar in the preparation of a doctoral thesis. Principles of cooperation with the supervisor. Regulations of the Academy of Physical Education and Sport regarding the procedure for awarding the academic degree of doctor of physical culture sciences. 2. Doctoral dissertations in the form of a series of scientific publications and monographs. 3. Methodological aspects of preparing a doctoral project and a doctoral dissertation. 4. Constructing problems, objectives, questions and research hypotheses. 5. Selection of research methods and tools and research subjects. 6. Preparation of a doctoral thesis project and its implementation. 7. Data collection, development and interpretation of results, drawing conclusions. 8. Structure of a doctoral thesis (introduction, theoretical assumptions, description of the methodological part, results, conclusions). 9. Principles of editing the work and preparing a bibliography. 10. Preparation of a self-report or doctoral monograph. 11. Assessment of a doctoral thesis in the Uniform Anti-plagiarism System (JSA). 12. Principles of responding to reviews of a doctoral thesis. 13. Principles of preparing a doctoral student for the public defense of his/her doctoral dissertation.	Individual seminar with a supervisor and own work on the doctoral project and preparation of the doctoral dissertation	Samples of work on the implementation of the doctoral project and the preparation of fragments of the doctoral dissertation and its final version

20.	Discussion forum	SD_W09 SD_U09 SD_U10 SD_U14 SD_U15 SD_K03 SD_K05	1. Goals and significance of scientific discussion for the development of a given area of science and the researcher's own development. 2. Basics of organizing a scientific session, both in terms of content (e.g. selection of experts, division of roles, scenario and schedule of the session) and technical requirements (e.g. presentation equipment, sound system, seating arrangement in the room). 3. The role of the chairman in a scientific session. 4. Rules of etiquette of participants in a scientific debate.	Practical classes in organizing and participating in a scientific session; moderated discussion	Free debate in Polish and English, presentation
21.	Reporting session	SD_W09 SD_U07 SD_U10 SD_U08 SD_U09 SD_U14 SD_U15 SD_K02 SD_K03 SD_K05	1. Goals and importance of reporting progress in scientific activity.  2. Organization of own work in preparing the report.  3. Selection of content for the purpose of the report.  4. Selection of the form of the report for the specificity of the reporting situation and recipients (e.g. poster, multimedia presentation, description, infographic, report).	Practical classes involving oral presentation of stages of the doctoral project implementation	Presentation in Polish and English, structured debate
<b>Professional internships:</b>					
22.	Teaching practices	SD_W11 SD_W02 SD_W03 SD_U13 SD_U14 SD_K03	1. Tasks related to teaching practices and its importance for the development of a doctoral student. 2. Professional competences required to conduct teaching in an academic environment and in the area of physical culture sciences 3. Selection of content, methods and tools for the assumed teaching objectives and the needs and capabilities of class participants, taking into account activation methods. 4. Preparation of lesson plans. 5. Methods of verifying the assumed learning outcomes. 6. Principles of communication with class participants.	Practical classes involving observation and conducting parts or entire classes	Observation in real conditions

			7. Documentation of the academic teacher in the scope of the implementation of teaching. 8. Responsibility of the academic teacher for the health and safety of class participants.		
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