

Doctoral School of the Józef Pilsudski University of Physical Education in Warsaw

The Doctoral School at AWF Warsaw prepares doctoral students to conduct scientific research in the discipline of physical culture sciences, to present, practically apply and disseminate research results, in particular to:

- analyse and creatively synthesise the global scientific achievements in the discipline of physical culture sciences;
- identify, formulate and innovatively solve research problems, and indicate the practical implications of adopted solutions;
- perform research tasks contributing new elements to the scientific output in this discipline.

A graduate of the Doctoral School at AWF Warsaw:

- is able to use the achievements of physical culture sciences and related disciplines to develop and design new research methods, techniques and tools, and apply them creatively in practice;
- is capable of transferring research results to the economic and social sphere;
- is able to design legal and organisational conditions conducive to the development of research and implementation activities;
- is able to plan and carry out individual and team research projects, lead a group and assume responsibility for it, and participate in the exchange of ideas, including in an international environment;
- is able to independently plan their own development;
- is able to initiate and conduct debate;
- is able to design and deliver education/training programmes at levels 6 and 7 of the Polish Qualifications Framework using modern methods and tools;
- is ready to uphold and develop the ethos of research and creative environments, to shape appropriate standards of conduct, and to contribute to improving quality and cooperation culture;
- is ready to think and act in an entrepreneurial manner in the discipline of physical culture sciences.

Tab. 1. Learning outcomes for the discipline of physical culture sciences at Level 8 of the Polish Qualifications Framework (PQF), in accordance with the Regulation of the Minister of Science and Higher Education of 14 November 2018 on the characteristics of second-cycle learning outcomes for qualifications at Levels 6 to 8 of the Polish Qualifications Framework

Area	Description	Level outcomes	Learning outcomes for the discipline of physical culture sciences
P8U_W KNOWLEDGE	Understands and has advanced knowledge of the global achievements of physical culture sciences and their implications for practice.	P8S_WG (depth and scope) Has advanced knowledge and understanding enabling the revision of existing paradigms – global achievements including: theoretical foundations; general issues and selected specific issues characteristic of the scientific or artistic discipline; main development trends of scientific or artistic disciplines relevant to the education programme; research methodology	K_W01 – has knowledge of contemporary scientific theories within a selected thematic area of physical culture sciences K_W02 – knows and understands the latest concepts explaining processes and mechanisms underlying the phenomena under investigation K_W03 – is familiar with the results of the latest research within the scope of individual scientific inquiry K_W04 – has advanced knowledge of research methodology
		P8S_WK (context) Understands fundamental dilemmas of contemporary civilisation, as well as economic, legal and other relevant conditions of research activity	K_W05 – understands the ethical, legal and economic determinants of research activity
P8U_U SKILLS	Is able to analyse and creatively synthesise scientific and creative achievements in order to identify and solve research problems, including those related to innovative and creative activities; is capable of generating new contributions to the field; can independently plan personal development and support the development of others; participates in the exchange of ideas and experiences, including in an international environment.	P8S_UW (application of knowledge) Is able to use knowledge from various fields to creatively identify, formulate and innovatively solve complex problems or perform research tasks, in particular: define the aim and subject of research, formulate a research hypothesis; develop research methods, techniques and tools and apply them creatively; draw conclusions based on research results; transfer research results to the economic and social sphere	K_U01 – is able to use current scientific knowledge at an advanced level to identify research problems K_U02 – is able to use advanced research methods, techniques and tools and create new research procedures and tools K_U03 – is able to transfer research results to the social sphere <i>i.e. present the results of their research also in a popularised form</i>

		P8S_UK (communication) Is able to disseminate research results, also in popular forms; initiate debate; participate in scientific discourse; use a foreign language at a level enabling participation in the international scientific and professional environment	K_U04 – is able to initiate and conduct debate, substantively arguing their own views as well as the positions and opinions of others, formulating conclusions and making coherent summaries K_U05 – is able to disseminate research results in the form of scientific articles and conference presentations K_U06 – is able to use a foreign language, including scientific terminology, at a level enabling comprehension of scientific texts
		P8S_UO (organisation of work) Is able to plan and carry out individual and team research or creative projects, including in an international environment	K_U07 – is able to plan scientific research in accordance with methodological principles K_U08 – is able to independently carry out all stages of the research process
		P8S_UU (learning skills) Is able to independently plan and act for their own development and to inspire and organise the development of others; to design education or training programmes and implement them using modern methods and tools	K_U09 – is able to independently plan the process of self-education and act for their own scientific development K_U10 – is able, using their knowledge, to inspire and organise the development of others K_U11 – is able to design and implement education programmes at Levels 6 and 7 of the Polish Qualifications Framework
P8U_K SOCIAL COMPE TENCE S	Is ready to conduct independent research contributing to the development of existing scientific and creative output; to undertake challenges in professional and public spheres, taking into account: • their ethical dimension, • responsibility for their consequences and the shaping of appropriate standards of conduct in such situations	P8S_KK (critical evaluation) Is ready to critically evaluate the achievements of the represented scientific or artistic discipline; to critically assess their own contribution to the development of that discipline; and to recognise the importance of knowledge in solving cognitive and practical problems.	K_K01 – is ready to formulate and accept in-depth, critical evaluations of scientific achievements

		P8S_KO (responsibility) Is ready to fulfil the social obligations of researchers and creators; to initiate actions for the public interest; to think and act in an entrepreneurial manner	K_K02 – is ready to act for the benefit of the scientific and social environment. K_K03 – is ready to think and act in an entrepreneurial manner in the discipline of physical culture sciences.
		P8S_KR (professional role) Is ready to maintain and develop the ethos of research and creative communities, including: conducting research independently, respecting the principle of public ownership of research results with consideration of intellectual property protection	K_K04 – knows and respects the principles of public ownership of research results and intellectual property protection

P = PRK level (6....8)

S – characteristics typical for higher education qualifications,

W – knowledge, G – depth and scope, K – context

U – skills, W – application of knowledge, K – communication, O – organisation of work, U – learning,

K – social competences, K – critical evaluation, O – responsibility, R – professional role

Tab. 2. Learning outcomes assigned to courses

Course code	COURSE NAME	LEARNING OUTCOMES
	Module 1: General education courses	
SD-1	Research methodology	K_W04; K_U02; K_U07
SD-2	Statistic	K_W04; K_U02; K_U08
SD-3	Academic skills workshops – <i>(literature review, preparation of a literature review)</i>	K_W01; K_W02; K_W03; K_U01; K_U06
	Academic skills workshops - <i>(preparation of a scientific conference presentation)</i>	K_W02; K_W03; K_U01; K_U05; K_U06; K_K01
	Academic skills workshops – <i>(preparation of a scientific article)</i>	K_W02; K_W03; K_U01; K_U05; K_U06; K_K01
	Academic skills workshops – <i>(preparation of a scientific project)</i>	K_W02; K_W03; K_W04; K_U01; K_U07; K_U06; K_K01
SD-4	Research ethics	K_W05; K_K04
SD-5	Intellectual property law	K_W05; K_K04
SD-6	Higher education teaching	K_W01, K_U01, K_U03, K_U11; K_K02
SD-7	Courses at another university	K_W01; K_W02; K_W03; K_U01; K_U02

	Module 2: Practical training	
SD-8	Research practice (<i>internship in a research laboratory / participation in a research project</i>)	K_W05; K_W03; K_U02; K_U03
SD-9	Teaching practice	K_W01, K_U03, K_U04; K_U09; K_U10; K_U11; K_K02, K_K03
SD-10	Organisational practice – (<i>work in the organisation of scientific conferences, work in journal editorial offices; participation in doctoral dissertation defences</i>)	K_W01 , K_W05; K_U03; K_K02
	Module 3: Doctoral dissertation preparation	
SD-11	Doctoral seminar – (<i>Semester 1 - preparation of a scientific development schedule, development of the doctoral dissertation concept</i>)	K_W01; K_W03; K_W04; K_U01; K_U07; K_U09; K_K01; K_K02
	Doctoral seminar – (<i>Semester 2 / 3 development of the doctoral dissertation concept</i>)	K_W01; K_W03; K_W04; K_U01; K_U07; K_U09; K_K01
	Doctoral seminar – (<i>Semesters 3/6 - conducting research within the doctoral dissertation, preparation of the dissertation text</i>);	K_W04; K_W05; K_U02; K_U07; K_U08;
	Doctoral seminar – (<i>Semesters 7/8 - preparation of the doctoral dissertation text and submission of the doctoral dissertation within the deadline specified in the Individual Research Plan (IPB) as a condition for completion of education at the doctoral school</i>)	K_W02; K_W03; K_W04; K_U04, K_U08; K_U09; K_K01; K_K04