

**CURRICULUM OF THE DOCTORAL SCHOOL
OF THE JAN KOCHANOWSKI UNIVERSITY IN KIELCE**

The curriculum is applicable to PhD students enrolled at the Doctoral School of the Jan Kochanowski University in Kielce
starting from the 2026/2027 academic year

1. The curriculum of the Doctoral School of the Jan Kochanowski University in Kielce is divided into five subject areas (fields of science or the arts) within the following scientific and artistic disciplines:

Humanities:

- discipline: history,
- discipline: linguistics,
- discipline: literary studies,

Medical and Health Sciences:

- discipline: medical sciences,
- discipline: health sciences,

Social Sciences:

- discipline: political science and public administration;
- discipline: law;

- discipline: security studies;
- discipline: education;
- discipline: social communication and media studies;
- discipline: management and quality studies;

Natural Sciences:

- discipline: biological sciences;
- discipline: chemical sciences;
- discipline: physical sciences;
- discipline: Earth and related environmental sciences;

Arts:

- discipline: fine arts and art conservation;
- discipline: music.

2. Teaching at the Doctoral School is conducted in Polish, with the exception of courses taught in English.
3. The provision in item 2 does not apply to the discipline of physical sciences, where teaching is conducted exclusively in English.
4. The duration of the course is four years.
5. The total number of teaching hours delivered by academic staff and other lecturers shall be at least 500 hours.

6. The Doctoral School's curriculum is designed to equip students with specialist knowledge in their discipline and field, as well as the competencies and skills required to disseminate new knowledge based on their own research or artistic/design work within the broadly defined field of scientific/artistic communication (including in English), the commercialisation of research findings or the outcomes of artistic or design activities, the ethics of the researcher, artist or designer, fundraising for scientific, artistic or design activities, and the management of scientific or arts-related projects.

In terms of teaching competences, the aim of the curriculum is to enable students to acquire knowledge and skills pertaining to modern teaching methods, including the delivery of various kinds of classes at a higher education institution.

7. PhD students complete the classes taught as general subjects, general subjects within the discipline of choice, and specialised subjects within the discipline of choice.
8. Among the specialised subjects within the discipline, PhD students in their first, second and third years undertake four compulsory subjects, including:
 - 1) PhD students studying subjects within the medical and health sciences, as well as the natural sciences disciplines – a minimum of two compulsory subjects taught in English;
 - 2) PhD students studying subjects within the humanities, social sciences and arts sections must take at least one obligatory subject taught in English.
9. Among the specialised subjects within the discipline, PhD students in their first, second and third years undertake at least three elective subjects, including:
 - 1) at least two subjects concerning the discipline which they are studying,
 - 2) at least one subject from another discipline within the general field they are studying.

10. The provision in item 9 does not apply to the discipline of physical sciences, where teaching is conducted exclusively in English.

11. The effectiveness of achieving the intended learning outcomes at Level 8 of the National Qualifications Framework is assessed through:

- 1) Subject exams and assessments – the scope of the questions shall correspond to the content set out in the course description and covered during lectures, seminars and laboratory sessions. A PhD student has the right to request that their supervisor provide a justification for the grade awarded in an examination or an assessment. Form of examination or assessment: oral, written or practical;
- 2) The completion of teaching placements – the learning outcomes achieved during teaching placements complement the educational approach. The effectiveness of the course is assessed through classroom observations by the lecturer and student feedback surveys;
- 3) Completion of a research or artistic placement – confirmation of a domestic or international research or artistic placement;
- 4) The supervisor's monitoring of the implementation of the doctoral student's individual research plan (progress on the doctoral dissertation, outcomes of research activities). The assessment of learning outcomes takes place as part of the doctoral student's mid-term evaluation of the implementation of their individual research plan.

Legend:

SD (preceding the underscore) – learning outcomes at the Doctoral School

W – knowledge

U – skills

K – social competences

01, 02, 03 et seq. – learning outcome number:

LEARNING OUTCOMES:

Symbols of learning outcomes	Upon completion of the course, a graduate:	Relation of learning outcomes to:	
		universal characteristics for level 8 of the Polish Qualifications Framework (Act on IQF)	second-level characteristics of learning outcomes for qualifications at level 8 of the Polish Qualifications Framework (Regulation of the Ministry of Science and Higher Education)
in terms of KNOWLEDGE			
SD_W01	has a sufficient knowledge and understanding to enable a re-examination of existing paradigms – the body of global scholarship, encompassing theoretical foundations, general issues and selected specific topics – relevant to the scientific or artistic discipline which concerns they which they are preparing their doctoral dissertation	P8U_W	P8S_WG
SD_W02	knows and understands the main development trends in the scientific or artistic disciplines taught and related to the research or artistic/design topics covered	P8U_W	P8S_WG
SD_W03	knows and understands the research methodology of the academic or artistic disciplines covered as part of the course, including the statistical analysis of results	P8U_W	P8S_WG
SD_W04	knows and understands the methodology of teaching at a higher education institution	P8U_W	P8S_WG

SD_W05	knows and understands the principles governing the dissemination of research findings, including the preparation of academic publications or publications presenting the results of artistic or design work, including via open access	P8U_W	P8S_WG
SD_W06	knows and understands the economic, legal, ethical and other relevant factors affecting academic and artistic/design work, in particular the methods of fundraising and the principles governing the development of research or arts projects	P8U_W	P8S_WK
SD_W07	knows and understands the fundamental dilemmas of modern civilisation, and is able to identify significant, current and unresolved issues in the field of science or the arts in which they are studying, particularly within the discipline in which they are preparing their doctoral thesis, including in a foreign language	P8U_W	P8S_WK
SD_W08	understands the basic principles of knowledge transfer to the economic and social spheres, as well as the commercialisation of the results of scientific or artistic/design work and the know-how associated with those results	P8U_W	P8S_WK
In terms of SKILLS			
SD_U01	is able to define the aim and scope of scientific research or artistic/design work, formulate research hypotheses within the discipline in which they are preparing their doctoral thesis, and critically analyse and evaluate the results of scientific research, expert work and other creative works, as well as their contribution to the advancement of knowledge	P8U_U	P8S_UW
SD_U02	is able to devise an original concept for research or artistic/design work, develop research methods, techniques and tools and apply them creatively, and draw conclusions based on the results of scientific research or the outcomes of artistic/design work	P8U_U	P8S_UW
SD_U03	is able to apply knowledge from various scientific or artistic fields to creatively identify, formulate and innovatively solve complex problems or carry out research and artistic/design tasks	P8U_U	P8S_UW

SD_U04	is able to assess the practical implications of research findings or artistic/design work, and to transfer the results of such research or artistic/design work into the economic and social spheres	P8U_U	P8S_UW
SD_U05	is able to communicate on specialist topics to a degree that enables active participation in an international academic or artistic/design community, whilst adhering to methodological, copyright and ethical principles, and is able to initiate academic debate and participate in academic discourse	P8U_U	P8S_UK
SD_U06	is able to disseminate the results of scientific research or the outcomes of artistic or design work, including in popular formats, such as oral presentations or written reports	P8U_U	P8S_UK
SD_U07	is able to use a foreign language at B2 level of the Common European Framework of Reference for Languages to the extent necessary to participate in an international professional, academic or artistic/design milieu	P8U_U	P8S_UK
SD_U08	is able to plan and carry out individual research or artistic/design projects at national and international level	P8U_U	P8S_UO
SD_U09	is able to plan and carry out team-based research or artistic/design projects at national and international level	P8U_U	P8S_UO
SD_U010	is able to plan and work independently towards their own development, as well as to inspire and organise the development of others	P8U_U	P8S_UU
SD_U011	is able to plan classes or a series of classes and deliver them, using modern methods and tools	P8U_U	P8S_UU
in terms of SOCIAL COMPETENCIES			
SD_K01	is capable of critically assessing the body of work within the academic or artistic discipline in which they are preparing their doctoral thesis, as well as critically assessing their own contribution to the development of that academic or artistic discipline	P8U_K	P8S_KK
SD_K02	is prepared to recognise the importance of knowledge in solving cognitive and practical problems	P8U_K	P8S_KK
SD_K03	is committed to fulfilling the social responsibilities of researchers and creators, and to initiating initiatives in the public interest	P8U_K	P8S_KO

SD_K04	is ready to think and act in an entrepreneurial way	P8U_K	P8S_KO
SD_K05	is committed to upholding and developing the ethos of research and creative communities, including: conducting scientific or artistic/design work independently and respecting the principle of public ownership of the results of such work, whilst taking into account the principles of intellectual property protection	P8U_K	P8S_KR

CLASSES WITH LEARNING OUTCOMES AND CURRICULUM CONTENT:

Subject	Section / Discipline or comments	Number of hours / class type / assessment method	Curriculum content	Reference to the learning outcomes for the degree course	
1. General subjects					
1.1	Communication in the fields of science or the arts	Humanities and social sciences / Polish Natural Sciences and Medical and Health Sciences / English Arts / Polish	10 hours / seminars / graded pass	Modern methods of knowledge dissemination. Rules for the collection and archiving of research results. Modern bibliography management tools. Methods of disseminating and publishing the results of scientific research or the outcomes of artistic or design activities under an open-access model. Guidelines for preparing presentations, reports and academic publications, or the outcomes of artistic or project-based work.	SD_W05 SD_W08 SD_U05 SD_U06 SD_K01 SD_K05

<p>1.2</p>	<p>Ethics in science or the arts and the protection of intellectual property</p>	<p>Humanities and social sciences / Polish</p> <p>Natural Sciences and Medical and Health Sciences / English</p> <p>Arts / Polish</p>	<p>10 hours / lecture / graded pass</p>	<p>Key issues in contemporary ethics. Ethics versus morality and other value systems. The functions of professional ethics and the factors influencing them. The ethical values of science or art. Ethical responsibility in science or the arts – the researcher’s code of ethics, international conventions. Concepts relating to industrial property and copyright protection. Moral and economic rights. Protection of databases, inventions, utility models and industrial designs. Trademarks. Combating unfair competition. Copyright contracts. Academic integrity, and rigour in conducting research and presenting its results. Artificial intelligence, guidelines for its use in academia, so-called paper mills, predatory journals and conferences.</p>	<p>SD_W06 SD_W08 SD_U04 SD_K01 SD_K03 SD_K05</p>
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1.3	Commercialisation of research findings and artistic works	Humanities and social sciences / Polish Natural Sciences and Medical and Health Sciences / English Arts / Polish	10 hours / seminars / graded pass	The results of scientific research or artistic/design work as a subject for commercialisation. Methods of commercialising the results of scientific research or artistic/design work: direct and indirect commercialisation, and licensing. Setting up spin-off companies, types of companies. Factors influencing knowledge and technology transfer. Academic entrepreneurship. Commercialisation pathways. Criteria and methods for evaluating innovation projects.	SD_W06 SD_W08 SD_U04 SD_K02 SD_K04 SD_K05
1.4	Higher education pedagogy	Humanities and social sciences / Polish Natural Sciences and Medical and Health Sciences / English Arts / Polish	15 hours / lecture / graded pass	The functions and distinctive features of academic education. Principles of organisational and teaching processes in higher education institutions. Developing objectives and curriculum content. Teaching strategies and methods (with a focus on innovative teaching approaches) and their application in various types of classes, taking into account the needs of artistically gifted individuals. Designing teaching activities. Lesson plan. Monitoring and assessing students' progress and achievements. An introduction to creating a course description.	SD_W04 SD_U010 SD_U11 SD_K02 SD_K03
1.5	Workshop on grant applications	Humanities	1 / 15 hours / seminars / pass	Opportunities for securing funding for research or artistic/design activities;	SD_W06 SD_W07

		and social sciences / Polish Natural Sciences and Medical and Health Sciences / English Arts / Polish		operation of IT systems enabling applications for funding for research or artistic/design activities (such as OSF); expenditure and accounting for funds allocated to research or artistic/design activities; project management. The outcome of the course is the submission of a project outline to the professor teaching the course. In addition, following the mid-term review, a condition for doctoral students' participation in projects funded by the Vice-Rector for Research is that they submit to their section head a printout from the programme in which the doctoral student submitted their project.	SD_U01 SD_U02 SD_U04 SD_U08 SD_K04 SD_K05
1.6	Philosophy / Economics	Elective subject / Polish or English	III / 15 hours, including 10 hours of lectures, 5 hours of seminars / Exam (lecture), graded pass (seminars)	Philosophy: Socratic–Platonic philosophy; moderate realism; post-Aristotelian schools; early Christianity; the philosophical views of St. Augustine; medieval philosophy (scholasticism); the views of Thomas Aquinas; the Polish medieval school of the law of nations; the anthropocentric philosophy of humanism and the Renaissance; Polish philosophy of the 16th and 17th centuries; the philosophy of R. Descartes and modern rationalism; socio-political thought in philosophy of the Renaissance and the Enlightenment; German philosophy: I. Kant and G. F. Hegel; the main ideas of	SD_W06 SD_U03 SD_U010 SD_K01 SD_K03 SD_K04

				<p>Polish Romanticism; selected contemporary philosophy topics (existentialism, pragmatism, phenomenology, post-modernism); contemporary Polish philosophy: R. Ingarden, T. Kotarbiński, J. Tischner.</p> <p>Economics: Defining the subject of economics; the market, supply and demand and the factors determining them; the elasticity of demand and supply; consumer behaviour; producers in the market, their role and functions; market participants; production factor markets; market failure and externalities; macroeconomic accounts (national income accounts and their determinants); government budget, budget deficit, public debt – basic relationships and dilemmas; the money market and financial market institutions; unemployment and its impact on the economy; inflation, deflation, stagflation and slumpflation; socio-economic development, economic growth and the business cycle; government economic policy.</p>	
1.7	Polish as a second language	Exclusively for international PhD students / Polish	60 hours / seminars / graded pass	Language competence training covering grammar, general language communication and academic language.	SD_U05 SD_U06

				Developing the ability to formulate and understand spoken and written language.	
1.8.	Statistical analysis of the data.	Social Sciences / Polish Natural Sciences / English Medical and Health Sciences / English	20 hours, including 10 hours of lectures and 10 hours of seminars / pass (lectures), graded pass (seminars)	Core terms concerning statistics. Types of statistical methods used in scientific research. Variable types. Population and sample. Sample selection Statistical characteristics and their types. The concept of distribution of a statistical characteristic. Point and interval estimation. Statistical hypotheses. General principles of testing statistical hypotheses. Type I and Type II errors. The power of a statistical test. Basic data operations (filtering, sorting, exporting data). Statistical description – selecting, calculating and interpreting statistical measures; presenting data graphically in a manner relevant to the type of data and the measurement scale used. Assessing the normality of a distribution using graphical methods and formal statistical tests. Hypothesis testing regarding the parameters concerning one or two populations. Student's t-tests. The use of parametric and non-parametric tests. Goodness-of-fit tests. Independence of characteristics tests. Statistical inference in correlation and regression analysis. Examples of the use of analysis of variance. Post-hoc tests.	SD_W03 SD_U02 SD_K05
	Language culture	Humanities / Polish Arts / Polish			Contemporary linguistic standards and aspects of linguistic correctness in academic or theoretical texts

				in the field of art. The structure of a scholarly or theoretical discourse in the field of art. Rules of editing, revision and presentation of academic texts or texts in the field of art.	SD_K01 SD_K02
1.9	Specialised English language course	Humanities and Social Sciences / English Natural Sciences and Medical and Health Sciences / English Arts / English	40 hours / seminars / graded pass	Practical use of the English language in research or artistic practice: presenting research findings or the results of artistic or creative projects in English; translating and writing academic or critical texts; specialist terminology for the relevant academic or artistic field.	SD_W05 SD_U05 SD_U06 SD_U07
1.10	Contemporary research methods	Humanities and Social Sciences / Polish Natural Sciences and Medical and Health Sciences / English	1 / 20 hours, including 10 hours of lectures and 10 hours of seminars / pass (lectures), graded pass (seminars)	Advanced methods (of collecting research data and analysing research results), experimental and numerical research techniques specific to the field of scientific research.	SD_W02 SD_W03 SD_U03 SD_U01 SD_U02 SD_K02 SD_K03
1.11	Marketing and management of artistic projects	Arts / Polish		Marketing and public relations strategies in the arts, encompassing methods for shaping an artist's image, communicating artistic projects, and establishing a long-term presence in the digital and institutional spheres. The content focuses on the management of	SD_W06 SD_W07 SD_U05 SD_U06 SD_U08 SD_K02 SD_K04

				artistic projects as a conceptual and production process, the development of coherent narrative and media strategies, and the analysis of models for collaboration with cultural institutions and communication partners.	
2. GENERAL SUBJECTS IN THE DISCIPLINE					
2.1	Discipline seminar	Classes concerning the given discipline taught separately / Polish or English	I - IV/ 60 hours / seminars / graded pass	The division of academic, artistic or design work into research phases, a review of the current state of knowledge, tools to facilitate the preparation of a review of the academic literature, and the presentation of the results of academic research or artistic/design work.	SD_W02 SD_W03 SD_W07 SD_U01 SD_U02 SD_U05 SD_K01 SD_K02
2.2	Methodological consultations	One-to-one sessions with the dissertation supervisor / Polish or English	I - IV / 160 hours / graded pass	Individual work with a dissertation supervisor or assistant supervisor on ongoing research or artistic/project work, including the individual research plan, mid-term assessment documentation and the preparation of the doctoral thesis.	SD_W01 SD_W02 SD_W03 SD_W07 SD_U01 SD_U02 SD_U03 SD_U08 SD_U010 SD_K01 SD_K04 SD_K05
2.3	Teaching placements	Teaching placements apply to all disciplines / Polish or English	I-III / 35 hours / pass	Conducting or assisting with teaching activities.	SD_W04 SD_U010 SD_U011 SD_K03

2.4	Research, research and teaching, or artistic placement	Placements apply to all disciplines / Polish or English	I-IV / 14 days / confirmation of placement completion / pass	Completion of a research, research-and-teaching or artistic placement of at least 14 days during the course of study, as set out in the individual research plan.	SD_W02 SD_U07 SD_U08 SD_U09 SD_U010 SD_K01 SD_K04 SD_K05
2.5	PhD Students' Forum	Active participation in the PhD Students' Forum applies to all disciplines / Polish or English	I-IV / Pass	The obligation to actively participate in the annual academic conference titled PhD Students' Forum held at Jan Kochanowski University in Kielce, organised by the Doctoral School and the PhD Students' Council.	SD_W08 SD_U05 SD_U06 SD_U07 SD_U010 SD_K01 SD_K02 SD_K03 SD_K05
1. SPECIALISED SUBJECTS IN THE DISCIPLINE					
3.1 HISTORY					
OBLIGATORY SUBJECTS TAUGHT IN POLISH					
No.	Subject name	Language / class type	Programme content		Learning outcomes
3.1.1	Methodology of history and methods of historical research	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Specific characteristics of research methods in the fields of political, social and economic history. History and historical memory. History and historical policy. Autobiographical narratives and the biographical method. In search of new research methods in the contemporary humanities. Research methodology and research area.		SD_W01 SD_W02 SD_U01 SD_U07 SD_K04 SD_K05

3.1.2	Historiography	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Analysis of contemporary trends in historical research: from modernism to contemporary trends in European historical scholarship. Interdisciplinarity in the humanities. Anthropological insights in reflections on the past. Unconventional approaches to representing the past in contemporary historical reflection. Research trends in contemporary humanities.	SD_W02 SD_U03 SD_U04 SD_K04
3.1.3	Academic editing	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Terminology pertaining to academic editing. Theorists and practitioners: the art of editing from a historical perspective. Issues pertaining to the layout and editorial preparation of various types of publications: source texts, collective works, monographs, biographies and dictionaries. Principles of text development and textual scholarship methods. Classification of publications and contemporary publishing guidelines.	SD_W02 SD_W03 SD_U02 SD_U04 SD_K04
3.1.4	Statistics and demography	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Historical statistics and demography: the nature of research and research methods. Historical studies of consumption and living standards. Economic factors shaping the fate of Poles in the 19th and 20th centuries. Population and demographic issues in the Russian Empire and changes in the Empire's demographic structure. Population structure by gender and age as a basis for demographic analysis. Analysis of natural population movements in Poland in the 19th and 20th centuries. Life expectancy in Poland in the 19th and 20th centuries: a comparative European perspective. Population migration. Socio-occupational structure of the population of the Polish lands in the 19th and 20th centuries.	SD_W03 SD_U01 SD_U02 SD_K04
OPTIONAL SUBJECTS				
3.1.5	Source workshops: from antiquity to the end of the 18th century	English / 15 hours / lecture / graded pass	Narrative and documentary sources – typological aspects and social functions – from antiquity to the Enlightenment. Medicine and care for the poor in the contexts of nature, astrology and religion – from antiquity to the Enlightenment. The European	SD_W02 SD_W03 SD_U01 SD_U02

			Reformation and its social context – from Christian antiquity to the revival of religious life in the 15th century.	SD_U03 SD_U07 SD_K01 SD_K04
3.1.6	Source workshops; 19th–20th centuries	Polish / 15 hours / lecture / graded pass	Basic principles and guidelines for research and academic work in the field of 19th-century history. Types of historical sources in the study of modern history. Characteristics of the research methodology of 19th- and 20th-century historians. Types, nature and classification of historical sources. Internal and external criticism of sources. Interpretation of source documents and records. Selection of research methods and tools. The process of establishing historical facts and reconstructing historical events. Analysis of the content and cognitive value of manuscript, printed, iconographic and digital sources. Practical seminars – working with manuscripts, printed and digital sources. Methods of assessing research skills.	SD_W02 SD_W03 SD_U01 SD_U02 SD_U03 SD_K01 SD_K04
3.1.7	An introduction to economic history	Polish / 15 hours / lecture / graded pass	The subject of economic history – an overview of research; - Main trends and figures in economic thought; - Periodisation of economic history; - The origins and nature of feudalism; - Agrarian economic dualism in 15th–16th-century Europe; - Development of the capitalist system in Western Europe (16th–18th centuries) – the so-called mercantile capitalism; - Manorial-serf system in Eastern Europe (16th - – late 18th centuries) based on Polish example; - Main directions of transformation in Western Europe in the age of free-market capitalism (late 18th century – 1870); the Industrial Revolution and the Agrarian Revolution. Socio-economic aspects of the revolution; The birth of capitalism in Poland (late 18th century to 1870); Transformations in the global economy during the era of monopoly capitalism (1870–1918/1914); The global economy during World War I (1914–1918); the world and Poland after World War I (up to 1928). Economic aspects; The Great	SD_W01 SD_U01 SD_U03 SD_K04

			Depression of 1929–1933/1935; The economic recovery of the 1930s The growing role of the state; The world and Poland during World War II; Economic development in the post-war period (from 1945) – capitalist and socialist economies; Global economy during the coexistence of political systems (1956–1980); Neoliberal economic model after 1989.	
3.1.8	Social phenomena and issues of the 20th and 21st centuries	English / 15 hours / lecture / graded pass	Wars and their consequences. Demography, migration and population movements in the 20th century. Urbanisation and urban problems. The evolution of society. Marriage, children, teenagers, rebellion. Mass behaviour, mass culture. Transport, media, culture, health, science. Globalisation and threats. Prosperity. Its origins and crises. Divisions, conflicts and differences in the 20th century. Factors destabilising the situation in Europe and the world in the 20th and 21st centuries.	SD_W01 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.1.9	Russia and Polish-Russian relations in the 19th century	Polish / 15 hours / lecture / graded pass	Russia during the reign of Catherine II. Russia's stance on the Polish question during the Napoleonic Wars. Science, education and Polish culture in the Russian Empire in the first half of the 19th century. The Polish–Russian War of 1831. Russia as the policeman of Europe. The Santa Claus season in Russia and the Polish lands. The reforms of Alexander II The fate of Poles in the Annexed Territories in the 19th century. Siberia in the history and culture of the Polish nation. The January Uprising and the post-uprising repression. The Russian 'Kulturkampf' on Polish soil. The era of Aleksandr Apukhtin and Iosif Hurka. The Catholic Church and the Catholic clergy in the Russian Empire. The Polish situation during the 1905 Revolution. Poland's path to independence and the consequences of Russian rule.	SD_W01 SD_U02 SD_U03 SD_K02 SD_K04
3.1.10	Games and toys through the ages	Polish / 15 hours / lecture / graded pass	Games and toys in ancient times. Games and toys in the Middle Ages. Games and toys in the modern era. Games and toys in the 19th century Games and toys in the 20th century The toy-making traditions of the Świętokrzyskie region.	SD_W01 SD_U01 SD_U02 SD_K04

3.1.11	Western and Polish conservative thought in the 19th century	Polish / 15 hours / lecture / graded pass	Pre-conservatism. The origins of the development of 19th-century conservative doctrine. Trends in conservatism: archaism. Forms of conservatism: moderate conservatism. Forms of conservatism: traditionalist. The evolution of conservatism during the 19th century. English conservatism and its influence on doctrine on the Old Continent. Juan Donoso Cortés – the evolution of a conservative’s stance (from reactionaryism to moderate conservatism).	SD_W07 SD_U01 SD_U03 SD_K04
3.1.12	Poles in the Russian Empire in the 19th century	Polish / 15 hours / lecture / graded pass	Poles in the Russian Empire following the Third Partition – population size, distribution, social structure, legal status. The Western Provinces, 1795–1831. The Western Provinces during the inter-uprising period. The depolonisation and Russification of the Lithuanian-Belarusian provinces. The de-Polonisation and Russification of Right-Bank Ukraine. Polish prisoners of war in Russian captivity – members of the Bar Confederation, participants in the Kościuszko Uprising, soldiers of Napoleon’s army, and participants in the November Uprising. Poles in the Tsarist army. The Polish colony in Saint Petersburg. The Polish diaspora in the heart of the Empire – civil servants, members of the liberal professions, engineers and industrialists. The Polish diaspora in the heart of the Empire – Polish students, academics and artists in the Far East and Manchuria. Poles in the Caucasus. Poles in Siberia. The Polish minority in Russia in 1904–1905. Poles in Russia during World War I.	SD_W01 SD_U01 SD_U03 SD_K04
3.1.13	The history of the family through the ages	Polish / 15 hours / lecture / graded pass	From polygamy to monogamy (the ancient East). Marriage and family in ancient Greece (how did wedding traditions come about?). The family in ancient Rome. Marriage in the Middle Ages and the Modern Era. The history of the family in the 19th century and in the early decades of the 20th century. Structural changes and new challenges. The history of childhood. Women’s emancipation. Contemporary challenges and issues, based on the example of China (from the one-child policy to low birth	SD_W01 SD_U01 SD_U03 SD_K02 SD_K04

			rates). The modern family – is the family in crisis? Alternative family models.	
3.1.14	Disseminating science in the context of its underlying factors and theoretical debates	Polish / 15 hours / lecture / graded pass	Scientific progress and the challenge of promoting science. Promoting science – the evolution of the concept. The promotion of science and public perception of science. Various forms of science communication: journalism, biography, documentary filmmaking, and essay writing. The role of scientists in promoting science. Promotion as a form of education. Promotion of science in the criteria for evaluating scientific activity.	SD_W08 SD_U05 SD_U06 SD_K04 SD_K05
3.2 LINGUISTICS				
OBLIGATORY SUBJECTS				
3.2.1	Workshop on research methods for linguists	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Characteristics of the academic work of a linguist. Preparing for academic work. Guidelines for academic writing (citations, footnotes, bibliography). Analysis and selection of sources. Formulating critical judgements. Rules for the funding of scientific research.	SD_W05 SD_W06 SD_W07 SD_U02 SD_U04 SD_U05 SD_K04 SD_K05
3.2.2	Theory and philosophy of language	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The place of linguistics within the structure of science. Metalinguistics as a reflection on the methods of linguistic research. Scientific paradigms and linguistic paradigms. The ontological status of language. Linguistic epistemology. The cultural functions of language.	SD_W01 SD_W02 SD_U03 SD_K04
3.2.3	Text and discourse studies	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The category of text and discourse in linguistic research. Text and discourse analysis – various approaches and schools of thought. Methods of discourse analysis. Discourse, speech genres and style. Varieties of discourse.	SD_W03 SD_W07 SD_U02 SD_U03 SD_U04 SD_K04

3.2.4	Cultural linguistics	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The cultural nature of language. Keywords: culture, folk culture, anthropological linguistics, cultural linguistics, cognitive linguistics. Ethnolinguistics, ethnography, dialectology and folklore studies. Ethnolinguistics in Poland. Slavic ethnolinguistics. Ethnolinguistics around the world. The concept of the linguistic picture of the world. Language stereotypes. Folk magic. Linguistic taboos. The world of folk medicine. Health, illness, and death in language and culture. Axiology	SD_W01 SD_W02 SD_U07 SD_K04
OPTIONAL SUBJECTS				
3.2.5	The reorientation of communicative intent as a fundamental mechanism in the development of social communication: an analysis of clinical interactions.	Polish / 15 hours / lecture / graded pass	Introduction – what is communicative intent, Gesture and shared attention, Pragmatic models, Reorientation in dialogue, ASD and intentionality, Aphasia and acquired disorders, DLD/SLI, Conversational analysis, Multimodal transcription, Analytical workshops, intervention design.	SD_W03 SD_W07 SD_U08 SD_U09 SD_U010 SD_K04
3.2.6	The Polish language from a geographical perspective: past and present	Polish / 15 hours / lecture / graded pass	The Polish language from a geographical perspective: past and present. The linguistic landscape of contemporary Poland: the Polish language as a mosaic of linguistic varieties, focusing primarily on its territorial diversity: dialects, regional varieties; foreign languages, minority languages. Poland's invisible (hidden) multilingualism. Dialects and regional varieties of Polish in the context of the typology of varieties of the modern Polish language. The classification and grouping of Polish dialects. Urban dialects. Typology of dialectal and regional linguistic features. Regional linguistic variants and the culture of the Polish language. The social validation of linguistic regionalisms. Regional varieties of the Polish language in the history of the Polish language. Perceptions of regional variation in the Polish language up to the end of the 18th century. The status of regional dialects in 19th-century Polish. Slavic regional languages in Poland – vision or reality? The case of the Kashubian language. The sources of the Kashubian language's vitality. Upper Silesian	SD_W01 SD_U01 SD_U03 SD_K04

			Creole? Silesian literary language? Dialect or language? The status of the Silesian language over the years from a sociolinguistic perspective (1990–2026). The language spoken by the inhabitants of selected Polish cities, such as Kraków, Poznań, Łódź, Bydgoszcz, Częstochowa, Białystok and Kielce. The Polish language of the southern and north-eastern borderlands. On issues in Polish dialectal and regional lexicography. A selection of dialect dictionaries and dictionaries of regional Polish.	
3.2.7	Languages and discourses of contemporary communities: a cognitive-research approach	Polish / 15 hours / lecture / graded pass	A cognitive and interdisciplinary approach to contemporary languages and discourses, analysed within the context of dynamic communicative communities. Cognitive mechanisms shaping language practices; youth discourses and communicative innovations in the context of cultural change; multimodality and digital communication; public, online and everyday discourses; qualitative and corpus-based research methods applied to the analysis of contemporary forms of communication. Participants learn to design and conduct their own research into language and discourse as a social, cultural and cognitive phenomenon.	SD_W03 SD_W05 SD_W07 SD_U02 SD_U03 SD_U04 SD_K01 SD_K03
3.2.8	Methodology of functional and pragmatic discourse analysis	Polish / 15 hours / lecture / graded pass	The basics of discursive analysis and discourse analysis. The ontology of discourse as a linguosemiotic experience and activity. Discourse from a functional perspective: discourse as a system of relations; discourse and human experience; discourse and non-verbal forms of expression and communication; discourse and ethnic culture; temporal and local relations in discourse; discourse and psychosocial relations. Discourse from a pragmatic perspective: discourse as a purposeful activity; discourse in various types of human activity and communicative-expressive situations; discursive attitudes; discursive strategies.	SD_W03 SD_W05 SD_U01 SD_U03 SD_K04
3.2.9	Methodology for the cultural and civilisational analysis of the collective worldview	Polish / 15 hours / lecture / graded pass	The foundations of an axiological analysis of the worldview. The ontology of cultural and civilisational experience. A view of the world and a worldview. The collective worldview as a causal factor in human behaviour. Cultural and civilisational factors in our view of the world. Cultural and civilisational models and	SD_W03 SD_W05 SD_U02 SD_U03 SD_U04

			systems. A typology of cultural and civilisational models. Cultural and civilisational blends (diffusions) at the level of ethnic worldviews. A cultural and civilisational analysis of behaviour and public statements.	SD_K04 SD_K05
3.2.10	Variance in modern Polish	Polish / 15 hours / lecture / graded pass	Variance in accordance with linguistic norms. The concept of linguistic variance, types of linguistic variance, formal determinants of variance, variance and the evolution of linguistic norms, variance: accent, inflection, main parts of speech, gradation of adjectives, adjectives derived from place names, variant forms of names of inhabitants, abbreviations, spelling and punctuation.	SD_W01 SD_W02 SD_U01 SD_U010 SD_K04
3.2.11	Corpus tools for linguistic analysis	English / 15 hours / lecture / graded pass	This course equips PhD students with the methodological and practical skills required to use corpus linguistics in their doctoral research. PhD students will explore the theoretical foundations of corpus linguistics, learn how to design and compile their own corpora, and use tools to generate and interpret word lists, keyword lists, concordances and collocations. Through practical workshops and guided analysis, participants will familiarise themselves with available online corpora and develop strategies for applying corpus-based methods in linguistic and interdisciplinary contexts. The course concludes with a presentation and group discussion on participants' own corpus-based research projects.	SD_W03 SD_W05 SD_U07 SD_U08 SD_K01 SD_K02
3.3 LITERARY STUDIES				
OBLIGATORY SUBJECTS				
3.3.1	Workshop on academic research for literature scholars	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Characteristics of the academic work of a literature scholar. Preparing for academic work. Guidelines for academic writing (citations, footnotes, bibliography). Analysis and selection of sources. Formulating critical judgements.	SD_W05 SD_W07 SD_U01 SD_U02 SD_K04

3.3.2	Reading a literary work – theory and practice of interpretation	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	From the classical interpretation to the post-modern one. The cultural turn and its implications for the study of literary works. The diversity and multifaceted nature of the reading. Interpretative practices that draw on various cultural contexts, enabling texts to be read within their historical, political and ideological contexts and interconnections. Reading and human experience: the autobiographical context; reading in an intersemiotic, comparative and intertextual context. The ethics of reading.	SD_W01 SD_W02 SD_U03 SD_U08 SD_K04 SD_K05
3.3.3	Literature – contexts and connections	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Modern and post-modern humanities theories as a framework for interpreting literary works (anthropology, psychoanalysis, feminism, post-colonial theories and others). A contemporary approach to the issue of the correspondence between the arts and intersemiotic translation. The impact of new media on theoretical concepts in literature and the other arts, and the ways in which they intersect. The influence of the theory of the spectacle on strategies for interpreting literature and its cultural contexts.	SD_W01 SD_W02 SD_U03 SD_U010 SD_K04
3.3.4	Mimesis vs. poesis: theory and practice of the ways in which the fictional world is constructed in contemporary mimetic, non-mimetic and post-modern literature.	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Mimesis vs. poesis – is realistic literature possible? Empirical reality versus the fictional world. ‘Fantasy’ and ‘realism’ versus mimetic and non-mimetic literature. Models of fictional world-building – the theories of Tzvetan Todorov, Eric Rabkin, Farah Mendlesohn and Andrzej Zgorzelski. The modernist and post-modernist revolutions. The hybridisation of contemporary literature: mainstream literature versus popular literature.	SD_W01 SD_W02 SD_U01 SD_U07 SD_K04
OPTIONAL SUBJECTS				
3.3.5	Theory and philosophy of language	Polish / 15 hours / lecture / graded pass	The place of linguistics within the structure of science. Metalinguistics as a reflection on the methods of linguistic research. Scientific paradigms and linguistic paradigms. The ontological status of language. Linguistic epistemology. The cultural functions of language.	SD_W01 SD_W03 SD_U01 SD_K04

3.3.6	Copy editing and academic editing	Polish / 15 hours / lecture / graded pass	Principles of the scholarly edition of literary texts. Overview of the concepts and terminology used in textual criticism and scholarly editing. Characteristics of editorial procedures: the working methods of a textual scholar and an academic editor. Critical editing of the text.	SD_W05 SD_W07 SD_U01 SD_U02 SD_U03 SD_U04 SD_K04
3.3.7	Philologist as a detective. The work of a scholarly editor of texts from the turn of the 19th and 20th centuries	Polish / 15 hours / lecture / graded pass	The work of a scholarly editor of texts from the turn of the 19th and 20th centuries: Academic editor as a text analyst. Sources and accounts: a philologist visits the archives. The history of the text as an investigation. Author, editorial team, censorship. Text reconstruction: editing versus interpretation. Commentary on the text: Philologist as detective. Critical skills as part of the investigation file. Impossible textual and editorial issues. The editor and the tradition of research. Case studies: Prus, Orzeszkowa, Sienkiewicz, Żeromski, Reymont.	SD_W02 SD_W03 SD_W05 SD_U02 SD_U03 SD_K04
3.3.8	The Biblical Tradition in Polish Literature	Polish / 15 hours / lecture / graded pass	The significance of the Bible in the Renaissance, Old Polish translations and paraphrases of the Bible, literary methods of alluding to the Bible (repetition, textual inlay, prefiguration, reinterpretation), rhymed paraphrases of selected books of the Holy Scriptures (the Psalter, the Book of Ecclesiastes, Song of Songs), the significance of the Reformation and the Council of Trent for the reception of the Bible, models of reading sacred text in poetry.	SD_W01 SD_W02 SD_U03 SD_U010 SD_K04 SD_K05
3.3.9	An Introduction to the Study of Intimistics (Autobiography)	English / 15 hours / lecture / graded pass	Basic literary, psychological and philosophical concepts, controversies, genres, the current state of research and trends in English-speaking countries. The difficult beginnings of intimistics a field of (non-)literary research. The concept of the autobiographical pact according to Philippe Lejeune; the division into four autobiographical 'selves' according to Sidonie Smith and Julie Watson; issues surrounding so-called autobiographical truth and the evolution of perceptions of this concept from early	SD_W01 SD_W02 SD_U03 SD_U07 SD_U010 SD_K04

			research into intimistics to the present day. The memoir 'boom' from the 1990s to the present day, the most popular types of memoirs and their structure.	
3.4 MEDICAL SCIENCES				
OBLIGATORY SUBJECTS				
3.4.1	Medical law in scientific research	Polish / 30 hours, including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Legal basis for conducting scientific research in medicine. Sources of national and international law governing medical research. Medical experiments: therapeutic and research – conditions for admissibility, risks and benefits, and formal requirements. Responsibilities and duties of the investigator and project leader in clinical trials. Clinical trials of medicinal products and medical devices: definitions, phases, and differences between interventional and non-interventional trials. Principles of conducting research involving human subjects. Personal data protection and medical documentation in scientific research. Principles of processing personal data of study participants, medical documentation, case report forms (CRF), and obligations regarding the storage and sharing of documentation. Principles of research ethics, ethical codes, and responsibility for the integrity and objectivity of research results. Funding and insurance for scientific research. Principles of research funding, participant compensation, insurance requirements, and compensation systems.	SD_W02 SD_W05 SD_W06 SD_W07 SD_W08 SD_U03 SD_U05 SD_U07 SD_K02 SD_K03 SD_K05
3.4.2	Clinical epidemiology	English / 30 hours, including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The role, aims, and tasks of epidemiology in modern medicine and health sciences, with particular emphasis on preventive medicine. Epidemiology of diseases based on available population data. Contemporary demographic trends and their impact on human health and the development of medicine. Key indicators of population health; the importance of standardising rates. Types, characteristics and methodology of epidemiological studies; measurements and indicators used in epidemiological studies.	SD_W01 SD_W03 SD_W06 SD_W07 SD_U03 SD_U04, SD-U07 SD_K02

3.4.3	Holistic approaches and personalisation in medicine	English / 30 hours, including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Personalisation and holistic approaches in medicine – definitions from a historical and contemporary perspective. Epidemiological overview of lifestyle-related diseases in Poland and worldwide, analysis of aetiological factors. Disease patterns, trends in morbidity and mortality rates in Poland, Europe, and worldwide. Risk factors for lifestyle-related diseases, including genetic predispositions. Principles and procedures of prevention, diagnosis, and treatment. The role of prevention and education in maintaining good health. Analysis of the effectiveness and risk of different treatment approaches. Modern therapies in Poland. The integration of holistic approaches in medicine and personalised medicine as the new standard in medical science. The role of molecular and biochemical markers in individualized therapy selection and in determining prognostic factors, with reference to the latest scientific advances and therapies in clinical trial phases. The use of artificial intelligence to analyse trends in biomarkers and monitor parameters in real time.	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04 SD_U07 SD_K02
3.4.4	Selected techniques of modern laboratory diagnostics (laboratory sessions)	Polish / 30 hours / laboratory sessions / exam	The latest techniques in genetic, microbiological and pathological diagnostics. Principles of work organization in microbiological, genetic, and histopathological laboratories, including GLP protocols and ISO standards. Methods for collecting, preserving and preparing samples for analysis. Qualitative and quantitative DNA analysis methods (sequencing, nucleic acid amplification techniques, FISH). Molecular biology techniques used in the diagnosis of genetic diseases, including cancer, and an assessment of their effectiveness (sensitivity, specificity). An introduction to modern microbiological diagnostics and occupational safety. Overview of BSL principles and basic biosafety requirements in a microbiology laboratory. Overview and characteristics of automated systems used in microbiological diagnostics. Overview of the principles of operation of MALDI-TOF MS and GeneXpert. Identification of microorganisms using MALDI-TOF MS. Analysis of sample mass spectra and microbial	SD_W01 SD_W02 SD_W03 SD_W07 SD_U02 SD_U04 SD_U05 SD_U07 SD_U09 SD_U010 SD_K04 SD_K05

			identification results, comparison with classical identification methods, and discussion of the method's limitations and causes of incorrect or ambiguous identification. Procedures used in histopathomorphological diagnosis.	
ELECTIVE SUBJECTS				
3.4.5	Dietary prevention and dietary therapy of lifestyle-related diseases	Polish / 15 hours / lecture / graded pass	Principles of healthy eating. Human energy balance. Food consumption and the health status of Poles – key trends, benefits, and risks. Epidemiology of lifestyle-related diseases in Poland and worldwide. Definition and classification of obesity. The aetiology and health consequences of obesity. Interdisciplinary treatment of obesity in children, adolescents and adults. Principles of prevention and dietary therapy in diabetes. Dietary prevention and dietary therapy of high blood pressure. Dietary prevention and dietary therapy of lipid disorders and cardiovascular diseases. Dietary prevention and dietary therapy of osteoporosis. Behavioural risk factors for the development of cancer. Nutrition in cancer. Selected digestive system disorders. Mental health and diet. Methods for assessing food intake. Methods of dietary assessment (qualitative, quantitative, and mixed-methods), their advantages and disadvantages. Methods and techniques for assessing nutritional status (anthropometric, laboratory and clinical).	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04 SD_U07 SD_K02 SD_K04
3.4.6	Scientific, translational, and clinical research in microbiology	Polish / 15 hours / lecture / graded pass	Latest scientific advances and literature review. Molecular mechanisms of the pathogenesis of infectious diseases in relation to microbial virulence factors, host–pathogen interactions, immune response, and approaches based on genomics and systems biology. Translational application of basic research discoveries in diagnostics, therapy, and prevention; development and validation of diagnostic methods, biomarkers, and new antimicrobial strategies. Clinical research in microbiological diagnostics using clinical specimens, interpretation of test results, antimicrobial resistance analysis, epidemiological	SD_W01 SD_W02 SD_W03 SD_W06 SD_W07 SD_W08 SD_U03 SD_U04 SD_U07 SD_U010

			surveillance, and antimicrobial stewardship. Integration of basic, translational, and clinical research in the context of patient care and public health.	SD_K02 SD_K04
3.4.7	Modern immunotherapy methods	Polish / 15 hours / lecture / graded pass	The role of immune competence and immunological tolerance in humans. Innate and acquired immune disorders. Legal framework and vaccination policies in Poland and worldwide, including factors increasing the risk of infection such as type of occupation, travel, patient age, immune system status, and comorbidities. Mechanisms of action of vaccines and their potential adverse effects as factors influencing the development of guidelines for vaccine use. Introduction to the latest scientific advances in immunotherapy, including treatment with monoclonal and bispecific antibodies, and CAR-T cell therapy in the treatment of cancer, infectious, and autoimmune diseases. Overview of phage therapy in combating antibiotic resistance.	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04 SD_U07 SD_U010 SD_K02 SD_K04
3.4.8	Molecular biology in medical sciences	Polish / 15 hours / lecture / graded pass	Genetic mechanisms underlying disease development, including hereditary, mitochondrial, oncological, allergic, viral, and immunological disorders. Genetic imprinting. Mechanisms regulating gene expression. Methods for research and diagnosis of diseases at the genome, transcriptome, and proteome levels. The significance of molecular markers in the diagnosis and treatment of cancer and inflammatory diseases. The application of genetic testing in modern medicine, gene therapies, and the fundamentals of pharmacogenomics and nutrigenomics.	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04 SD_U07 SD_U010 SD_K02 SD_K04
3.4.9	Public health with elements of European Union health policy	Polish / 15 hours / lecture / graded pass	The origins, philosophy, subject, and scope of public health in the context of practical activities aimed at improving population health. Health care systems worldwide: their main characteristics and principles of functioning. Globalization – key processes of change and the resulting challenges and threats to population health. Organization of health care in Poland and the basic legal regulations governing the health care system. Benefits from the	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04 SD_U07 SD_U010

			Social Insurance Fund (pl. Fundusz Ubezpieczeń Społecznych, FUS). Main changes related to health care system reform. Health economics. National Institute of Public Health – National Research Institute (NIPH NIH): key responsibilities in the delivery of public health services. The use of the ‘Public Health European Commission’ (pl. Zdrowie – UE) portal to promote public health in the European Union.	SD_K02 SD_K04
3.5 HEALTH SCIENCES				
OBLIGATORY SUBJECTS				
3.5.1	Clinical epidemiology	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The role, aims, and tasks of epidemiology in modern medicine and health sciences, with particular emphasis on preventive medicine. Epidemiology of diseases based on available population data. Contemporary demographic trends and their impact on human health and the development of medicine. Key indicators of population health; the importance of standardising rates. Types, characteristics and methodology of epidemiological studies; measurements and indicators used in epidemiological studies.	SD_W01 SD_W03 SD_W06 SD_W07 SD_U03 SD_U04 SD_U07 SD_K02
3.5.2	Public health with elements of European Union health policy	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The origins, philosophy, subject, and scope of public health in the context of practical activities aimed at improving population health. Health care systems worldwide: their main characteristics and principles of functioning. Globalization – key processes of change and the resulting challenges and threats to population health. Organization of health care in Poland and the basic legal regulations governing the health care system. Benefits from the Social Insurance Fund (pl. Fundusz Ubezpieczeń Społecznych, FUS). Main changes related to health care system reform. Health economics. National Institute of Public Health – National Research Institute (NIPH NIH): key responsibilities in the delivery of public health services. The use of the ‘Public Health European Commission’ (pl. Zdrowie – UE) portal to promote public health in the European Union.	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04 SD_U07 SD_U010 SD_K02 SD_K04

3.5.3	Evidence-based medicine	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The basics of EBM. Interpretation of research results: measures of intervention effects, and distinction between statistical and clinical significance. Reporting standards: CONSORT guidelines for randomized trials, STROBE for observational studies, and STARD for diagnostic accuracy studies. Systematic reviews and meta-analyses. Clinical guidelines: their nature, validity assessment using AGREE, and development process using GRADE methodology. Errors in the interpretation of clinical data – examples of unwarranted conclusions from research studies. Sources of reliable medical knowledge: strategies for searching and selecting scientific information. A critical review of publications on treatment and prevention. An analysis of diagnostic tests in terms of their reliability and practical utility. Practical searching for scientific evidence in reliable databases. Presentation projects: formulating clinical questions, searching for answers, and critically appraising and discussing research findings.	SD_W01 SD_W02 SD_W03 SD_W05 SD_W07 SD_U03 SD_U04 SD_U07 SD_U010 SD_K02 SD_K04
3.5.4	Dietary prevention and dietary therapy of lifestyle-related diseases	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Principles of healthy eating. Human energy balance. Food consumption and the health status of Poles – key trends, benefits, and risks. Epidemiology of lifestyle-related diseases in Poland and worldwide. Definition and classification of obesity. The aetiology and health consequences of obesity. Interdisciplinary treatment of obesity in children, adolescents and adults. Principles of prevention and dietary therapy in diabetes. Dietary prevention and dietary therapy of high blood pressure. Dietary prevention and dietary therapy of lipid disorders and cardiovascular diseases. Dietary prevention and dietary therapy of osteoporosis. Behavioural risk factors for the development of cancer. Nutrition in cancer. Selected digestive system disorders. Mental health and diet. Methods for assessing food intake. Methods of dietary assessment (qualitative, quantitative, and mixed-methods), their advantages and	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04 SD_U07 SD_K02 SD_K04

			disadvantages. Methods and techniques for assessing nutritional status (anthropometric, laboratory and clinical).	
ELECTIVE SUBJECTS				
3.5.5	Medical law in scientific research	Polish / 15 hours / lecture / graded pass	Legal basis for conducting scientific research in medicine. Sources of national and international law governing medical research. Medical experiments: therapeutic and research – conditions for admissibility, risks and benefits, and formal requirements. Responsibilities and duties of the investigator and project leader in clinical trials. Clinical trials of medicinal products and medical devices: definitions, phases, and differences between interventional and non-interventional trials. Principles of conducting research involving human subjects. Personal data protection and medical documentation in scientific research. Principles of processing personal data of study participants, medical documentation, case report forms (CRF), and obligations regarding the storage and sharing of documentation. Principles of research ethics, ethical codes, and responsibility for the integrity and objectivity of research results. Funding and insurance for scientific research. Principles of research funding, participant compensation, insurance requirements, and compensation systems.	SD_W02 SD_W05 SD_W06 SD_W07 SD_W08 SD_U03 SD_U05 SD_U07 SD_K02 SD_K03 SD_K05
3.5.6	Holistic approaches and personalisation in medicine	English / 15 hours / lecture / graded pass	Personalisation and holistic approaches in medicine – definitions from a historical and contemporary perspective. Epidemiological overview of lifestyle-related diseases in Poland and worldwide, analysis of aetiological factors. Disease patterns, trends in morbidity and mortality rates in Poland, Europe, and worldwide. Risk factors for lifestyle-related diseases, including genetic predispositions. Principles and procedures of prevention, diagnosis, and treatment. The role of prevention and education in maintaining good health. Analysis of the effectiveness and risk of different treatment approaches. Modern therapies in Poland.	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04 SD_U07 SD_K02

			The integration of holistic approaches in medicine and personalised medicine as the new standard in medical science. The role of molecular and biochemical markers in individualized therapy selection and in determining prognostic factors, with reference to the latest scientific advances and therapies in clinical trial phases. The use of artificial intelligence to analyse trends in biomarkers and monitor parameters in real time.	
3.5.7	Selected techniques of modern laboratory diagnostics	Polish / 15 hours laboratory sessions / graded pass	The latest techniques in genetic, microbiological and pathological diagnostics. Principles of work organization in microbiological, genetic, and histopathological laboratories, including GLP protocols and ISO standards. Methods for collecting, preserving and preparing samples for analysis. Qualitative and quantitative DNA analysis methods (sequencing, nucleic acid amplification techniques, FISH). Molecular biology techniques used in the diagnosis of genetic diseases, including cancer, and an assessment of their effectiveness (sensitivity, specificity). An introduction to modern microbiological diagnostics and occupational safety. Overview of BSL principles and basic biosafety requirements in a microbiology laboratory. Overview and characteristics of automated systems used in microbiological diagnostics. Overview of the principles of operation of MALDI-TOF MS and GeneXpert. Identification of microorganisms using MALDI-TOF MS. Analysis of sample mass spectra and microbial identification results, comparison with classical identification methods, and discussion of the method's limitations and causes of incorrect or ambiguous identification. Procedures used in histopathomorphological diagnosis.	SD_W01 SD_W02 SD_W03 SD_W07 SD_U02 SD_U04 SD_U05 SD_U07 SD_U09 SD_U10 SD_K04 SD_K05
3.5.8	Molecular biology in medical sciences	Polish / 15 hours / lecture / graded pass	Genetic mechanisms underlying disease development, including hereditary, mitochondrial, oncological, allergic, viral, and immunological disorders. Genetic imprinting. Mechanisms regulating gene expression. Methods for research and diagnosis of diseases at the genome, transcriptome, and proteome levels. The significance of molecular markers in the diagnosis and	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04

			treatment of cancer and inflammatory diseases. The application of genetic testing in modern medicine, gene therapies, and the fundamentals of pharmacogenomics and nutrigenomics.	SD_U07 SD_U010 SD_K02 SD_K04
3.5.9	Scientific, translational, and clinical research in microbiology	Polish / 15 hours / lecture / graded pass	Latest scientific advances and literature review. Molecular mechanisms of the pathogenesis of infectious diseases in relation to microbial virulence factors, host–pathogen interactions, immune response, and approaches based on genomics and systems biology. Translational application of basic research discoveries in diagnostics, therapy, and prevention; development and validation of diagnostic methods, biomarkers, and new antimicrobial strategies. Clinical research in microbiological diagnostics using clinical specimens, interpretation of test results, antimicrobial resistance analysis, epidemiological surveillance, and antimicrobial stewardship. Integration of basic, translational, and clinical research in the context of patient care and public health.	SD_W01 SD_W02 SD_W03 SD_W06 SD_W07 SD_W08 SD_U03 SD_U04 SD_U07 SD_U010 SD_K02 SD_K04
3.5.10	Adherence (patient adherence) as a responsibility in healthcare professions	Polish / 15 hours / lecture / graded pass	Therapeutic adherence – definitions, clinical significance, and the scale of the problem. Adherence, compliance, persistence – conceptual differences. The epidemiology of non-adherence in chronic diseases. Clinical consequences of treatment failure, complications, hospitalisation, and treatment resistance. The economic and systemic costs of non-adherence. Non-adherence as a ‘hidden cause’ of treatment failure. Factors influencing adherence – patient, physician, and health system perspectives according to the WHO model. Doctor–patient communication as a key factor in improving adherence. Methods for assessing adherence and tools supporting its improvement. Adherence in selected chronic conditions – case studies.	SD_W01 SD_W02 SD_W07 SD_U03 SD_U04 SD_U07 SD_K02 SD_K04
3.6 POLITICAL SCIENCE AND PUBLIC ADMINISTRATION				
OBLIGATORY SUBJECTS				

3.6.1	Political theory	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Politics as a phenomenon and a subject of study. Rules, norms and principles that shape political processes. Selected trends and concepts in political theory. Policy-makers. The objectives of policy measures and decisions.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.6.2	Contemporary political systems and anti-establishment movements	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	An in-depth analysis of contemporary political systems, the mechanisms governing their operation, and the sources of stability and crises. Research into anti-establishment movements and new forms of political protest.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.6.3	Social Communication	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The nature and principles of social and political communication. The role of traditional and digital media. Political discourse. Communication channels An analysis of communication processes in political science research.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.6.4	An Introduction to International Relations	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	An in-depth introduction to international relations: key theories of IR, contemporary global challenges, entities and actors in international relations, and the dynamics of the international system. The subject is taught in English.	SD_W07 SD_U01 SD_U07 SD_K04
OPTIONAL SUBJECTS				
3.6.5	Public policy	Polish / 15 hours / lecture / graded pass	An in-depth analysis of selected public policies. The nature of public policy. Public policy versus politics. Policy instruments for the implementation of public policies.	SD_W01 SD_W02 SD_W07

				SD_U01 SD_U03 SD_U07 SD_K04
3.6.6	Current issues in social research	Polish / 15 hours / lecture / graded pass	An in-depth analysis of the latest developments, phenomena and trends, as well as methodological challenges and research issues in the social sciences. Support for the development of PhD students' individual research projects.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.6.7	Contemporary political thought	Polish / 15 hours / lecture / graded pass	In-depth analysis of contemporary trends in political thought, ideological debates and shifts in political doctrines and ideas, from both a global and regional perspective.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.6.8	Geopolitics and geopolitical analysis	Polish / 15 hours / lecture / graded pass	Classic and modern concepts of geopolitics, methods of geopolitical analysis, and the interpretation of global and regional processes from a spatial and strategic perspective.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.6.9	Economic policy	Polish / 15 hours / lecture / graded pass	Theoretical and practical aspects of economic policy, the relationship between the state and the market, the role of public institutions, and the political context of economic processes.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04

3.6.10	Leadership and mentoring	English / 15 hours / lecture / graded pass	An analysis of the phenomenon of leadership. Types of leadership. Communication styles and elements that shape one's image. Developing leadership and mentoring skills in the public sector – both nationally and internationally. The ethics of leadership.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.6.11	Disinformation / Misinformation / Malinformation	English / 15 hours / lecture / graded pass	An in-depth analysis of disinformation, misinformation and malinformation in a political and social context, with particular emphasis on digital media and information security.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.7 LAW				
OBLIGATORY SUBJECTS				
3.7.1	Trends in the development of civil law	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The nature and sources of civil law. Trends in the development of civil law. Trends in the development of civil law norms.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.7.2	Economic analysis of law	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The study of law based on economic methods. Assessment of the effectiveness of legal regulations. Positive economic analysis of the law. Normative economic analysis of the law. Competition law, employment law, tax law.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04

3.7.3	Current trends in legal theory	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Contemporary legal theory. The principles and concepts underpinning changes in modern law. Contemporary theory of the state and law.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.7.4	The Council of Europe's protection of human rights	English / 15 hours / lecture / graded pass	The role of the Council of Europe in the global system for the protection of human rights and freedoms. Powers and responsibilities of the Council of Europe. Areas of the Council of Europe's practical work in protecting human rights.	SD_W01 SD_W02 SD_U01 SD_U03 SD_U07 SD_K04
OPTIONAL SUBJECTS				
3.7.5	Contemporary issues in criminology and forensic science vs. criminal law	Polish / 15 hours / lecture / graded pass	Criminology as an interdisciplinary science; the contemporary approach to forensic science as a branch of legal science; the application of the findings of criminology and forensic science in criminal law, from both a theoretical and practical perspective.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.7.6	Administrative acts: a theoretical and practical perspective	Polish / 15 hours / lecture / graded pass	Types of administrative acts. Content of administrative acts. Effectiveness of administrative acts. Practice of administrative acts.	SD_W01 SD_W02 SD_U01 SD_U03 SD_K04
3.7.7	The fundamentals of German, French and Anglo-Saxon public law	Polish / 15 hours / lecture / graded pass	Concepts of international public law. Fundamental principles of international legal systems. The distinctiveness of Anglo-Saxon law	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04

3.8 SECURITY SCIENCES				
OBLIGATORY SUBJECTS				
3.8.1	Security theory	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The etymology and ontology of security – from personal to systemic security. Politics – strategy – doctrine, interrelationships. National interests and security policy objectives (defence, military affairs). The conditions under which a state operates (megatrends, challenges, threats, opportunities, strengths, weaknesses). Symmetrical and asymmetrical foundations of security policy and strategy. National and international security – a systemic approach (community-based, coalition-based). Alliances (coalitions) – global, regional and local levels. The international and inter-organisational order – a historical and contemporary perspective. The anticipated shape of the global order in the 21st century.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.8.2	Methodology of security studies	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Basic concepts in security methodology. Security studies within the Polish higher education system. Methodology as a science. Methodologies: general and specific, pragmatic and non-pragmatic. Security methodology in theory and practice. The characteristics and principles of scientific inquiry. Organisation and stages of scientific research. Subject and aim of the research. Problems and research questions; the hypothesis – its significance, origin and methods of verification. Selection and analysis of source documents; classification of publications. Selected quantitative and qualitative methods in social research (including research on safety). The diagnostic survey method and the case study method. Questionnaire-based interview – developing the tool and its practical application. Sample selection and representativeness in safety studies	SD_W01 SD_W02 SD_U01 SD_U03 SD_K04
3.8.3	Security threats and challenges of the 21st century. Modern and future wars (armed conflicts)	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture),	An informative and descriptive as well as analytical and predictive course, focusing on the analysis of megatrends and trends in the evolution of the international security situation on the one hand, and the development of the 'digital space' on the other. It covers an overview of the erosion of classical liberal	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03

		graded pass (seminars)	democracy, the rapid rise of private entities controlling the 'digital space', and pilot programmes for advanced social control. The thematic areas also address issues such as climate change, development imbalances and demographic disparities.	SD_U07 SD_K04
3.8.4	Geopolitics	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The main aim of the course is to understand the influence of geographical space on political rivalry between states, and in particular on international relations and security. The course will cover historical and contemporary geopolitical concepts, including US foreign policy, Russia's resurgence, the rising influence of China, the Middle East, European security, international security in South and East Asia, and geopolitical rivalry in Africa.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
OPTIONAL SUBJECTS				
3.8.5	Strategic security management	English / 15 hours / lecture / graded pass	Strategic security management from a process-based perspective – structure and components of the process. Strategic planning as a tool for strategic management. Security planning as meta-planning. Strategic design. Strategic review – a tool for planning national security, defence and the armed forces – existing global and national achievements, and proposed development solutions. Elements of forecasting theory for strategic security management (defence, military affairs) – the application of mathematical dynamic models in security management.	SD_W01 SD_W02 SD_U01 SD_U03 SD_U07 SD_K04
3.8.6	Strategic studies	Polish / 15 hours / lecture / graded pass	Strategy as a praxeological category – the phenomenon of violence, armed conflict, the origins and evolution of strategy; Strategy as a concept – strategic categories, strategic culture, politics, strategy and tactics; General strategy – strategy as an art, a science and a method. Strategy and space – strategy of vast spaces, geopolitics and geostrategy, strategy in space and cyberspace; Contemporary and future issues in strategic studies – the contemporary and future security environment, megatrends and strategic trends, strategic shifts in threats and strategic challenges.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04

3.8.7	Crisis management and civil protection	Polish / 15 hours / lecture / graded pass	The course will cover topics related to the functioning of the crisis management system in Poland, including its key stakeholders. Pragmatism in crisis management, legal foundations, sources of standards in crisis management. The role of central government. The role of local government at provincial, district and municipal levels. Crisis management methods and procedures. The role of the uniformed services, cooperation with the public administration. Improving the crisis management system.	SD_W01 SD_W02 SD_U01 SD_U03 SD_K04
3.9 EDUCATION				
OBLIGATORY SUBJECTS				
3.9.1	Trends in contemporary education	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Characteristics of trends in contemporary education. Relationships between educational sub-disciplines. The philosophical and theoretical foundations of the main schools of thought and trends in educational theory. Prominent figures in the field of education. Contemporary educational theories and concepts. Contemporary trends in educational criticism and contemporary trends in educational reform. Forecasting trends in the development of educational theory and practice.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02
3.9.2	Contemporary trends in the humanities and social sciences	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	- global and local threats, risks facing the modern family, with practical elements, - traditional and modern culture, understood as a system of values and/or a way of life, with practical elements, - creative activity among children and adults – individual factors and the social context, with practical elements, - social policy addressing contemporary global issues, with practical elements, - social rehabilitation and reintegration, with practical elements.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02
3.9.3	Social issues and challenges in the 21st century	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	War and its consequences. Demography, migration and population movements in the 21st century. Family, parenthood, child, childhood. Media, culture, health, science. Globalisation and threats. Crisis – the causes of the phenomenon. Environmental factors influencing human development. Factors threatening humanity.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02

3.9.4	University as an organisation and educational institution	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	University as an organisation: structure and decision-making bodies, key processes, areas of activity, networks of cooperation, operational context (relations with the state, the market and civil society). University as an educational institution: academic staff (legal regulations, typical duties), study programmes, planning and organisation of teaching, quality of education and methods of ensuring it.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02
OPTIONAL SUBJECTS				
3.9.5	Contemporary educational thought	Polish / 15 hours / lecture / graded pass	education of children with special educational needs; media education; teachers and schools in the context of social and educational change; the fundamentals of knowledge and research on the profession of the teacher and educator in the context of contemporary conditions; inclusive education; social pedagogy in the face of contemporary global challenges; contemporary threats to childhood – selected areas; educational inequalities as a pedagogical issue.	SD_W01 SD_U03 SD_K02
3.9.6	Opportunities and risks in the field of information and communication technology	Polish / 15 hours / lecture / graded pass	Holistic development of children and young people; the use of the internet in the process of education and upbringing; media literacy and its importance in the lives of individuals, social groups and families.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02
3.9.7	Social (educational) support	Polish / 15 hours / lecture / graded pass	quality of life, - well-being; the concept of resilience; support and psychological and educational counselling for children and families.	SD_W01 SD_W02 SD_U01 SD_U03 SD_K02
3.9.8	Prospective approaches to education in contemporary pedagogy	English / 15 hours / lecture / graded pass	A forward-looking approach in education (focus on aspirations and the future); educational goals (short-term and long-term); assessment of aspirations and needs (personal and social development); support for development (supporting rather than replacing, fostering self-determination); support in difficult	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03

			situations (strengthening protective factors: boosting self-esteem, coping with stress); building positive relationships (respect, trust and understanding)	SD_U07 SD_K02
3.9.9	Educational anthropology	Polish / 15 hours / lecture / graded pass	Anthropology and anthropologies. Educational anthropology – origins, approaches, fundamental principles. The human being as the subject and the object of education. Conceptions of humanity and the teleology of education. Fundamental anthropological errors (reductionism, anti-anthropology). Human – a multifaceted being. All-round human development.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02
3.10 COMMUNICATION AND MEDIA STUDIES				
OBLIGATORY SUBJECTS				
3.10.1	Methodology of Social Communication and Media Studies	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	General concepts in research methodology, with particular emphasis on the methodology of social communication and media studies. Social communication research and media research – scope and characteristics. Qualitative and quantitative methods in social communication and media research. Media content analysis. Systemic analysis in media studies: Research into traditional, global and social media – research methods and tools.	SD_W01 SD_W02 SD_W03 SD_W05 SD_W07 SD_U01 SD_U02 SD_U03 SD_U04 SD_U05 SD_U06 SD_U08 SD_U10 SD_K01 SD_K02 SD_K03 SD_K05
3.10.2	Theories of (mass) communication	English / 30 hours including 15 hours of lectures and 15 hours of seminars /	Early press studies. Relationship between press studies and media studies. Mass media research. Mid-range theories in media studies. Theories: technological determinism; agenda-setting; framing theory; uses and gratifications theory;	SD_W01 SD_W02 SD_U03

		exam (lecture), graded pass (seminars)	gatekeeping theory; the spiral of silence; the information-network society.	SD_U07 SD_K02
3.10.3	The mediatisation of the social sphere	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Mediatisation as a social process and a subject of research. Mediatisation as changes in the media and social and cultural changes. The media as the fourth estate. Relations between the media and politics: the mediatisation of politics, the politicisation of the media. The implications of developments in media and communication for human identity, culture and forms of social interaction. Tabloidisation, celebrity culture, infotainment. From opinion leaders to celebrities – the evolution of role models. The nature and role of new media. Prosumer media culture. Media convergence. Consequences of media exposure and celebrity culture.	SD_W02 SD_W07 SD_U03 SD_U04 SD_U05 SD_K01 SD_K03
3.10.4	Media and local communication	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Role of local media within national and global media systems. Role of the media in local (glocal) communication. Broadcasters and audiences of local media. Participants in local communication. Issues and research methods in media and local communication. Analysis of local media content.	SD_W01 SD_W07 SD_U03 SD_U04 SD_U10 SD_K02 SD_K03
OPTIONAL SUBJECTS				
3.10.5	New media in a social context	English / 15 hours / lecture / graded pass	New media, their impact on society and the individual. Social media and video platforms: YouTube, Twitch, TikTok. Changes in people's media usage habits and the impact of these processes on group dynamics	SD_W01 SD_W07 SD_U03 SD_U04 SD_U07 SD_K01
3.10.6	Disseminating research findings in the field of social communication and media studies – theory and practice	Polish / 15 hours / lecture / graded pass	Guidelines for the preparation of academic articles, with particular reference to the social sciences and media studies. Academic journal databases. Stages of the publication process: from the initial idea for a research article to the submission of the	SD_W01 SD_W02 SD_W03 SD_W05

			manuscript. Peer review and drafting a response. Good and bad publishing practices. Review of academic conference proceedings; preparation for presentations at conferences, symposia and academic seminars.	SD_U01 SD_U02 SD_U03 SD_U04 SD_U05 SD_U06 SD_U08 SD_U10 SD_K05
3.10.7	Media discourse studies	Polish / 15 hours / lecture / graded pass	The concept of discourse and its components. Media discourses as a form of communication occurring in the mass media. Media discourse conducted in the media or through the media. Discourse as a category defined by subject matter, medium and speaker. Images, writing and spoken language as means of constructing discourse. Historical, social, political and cultural determinants of media discourse. Discourse analysis. Methods of discourse analysis. Selected examples of contemporary media discourse, including discourse on the state of the Catholic Church in Poland and worldwide, discourse on in vitro fertilisation, discourse on Ukrainian refugees in Poland; discourse on national minorities	SD_W03 SD_W07 SD_U04 SD_U05 SD_K02 SD_K03
3.11 MANAGEMENT AND QUALITY SCIENCES				
OBLIGATORY SUBJECTS				
3.11.1	Organisational management	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Paradigms and trends in modern management. Classical and contemporary schools of management. Management as a social science versus managerial practice. The concept, nature and classification of organisations. The organisation's environment. Stakeholders and social responsibility. Planning, motivating, organising and monitoring within an organisation. Human resource management. Recruitment and staff development. Leadership and leadership styles. Factors influencing the organisation's development. Innovation. Competitiveness. Equity and debt.	SD_W01 SD_W02 SD_W03 SD_W07 SD_U03 SD_U07 SD_K01 SD_K04

			<p>Organisation as a system. Analysis of the structure of a selected organisation. Discussion on management effectiveness. Analysis of the organisation's operating environment. SWOT analysis, PEST analysis. Sustainable organisational management. Best practices. Organisational design and new organisational forms. Organisational agility and hybrid organisations. Managing change, innovation and complexity. Analysis of organisational case studies. Critical reinterpretation of classic case studies</p>	
3.11.2	Financial decision-making in a company	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	<p>The value of money in time in modelling long-term decisions. The application of financial mathematics and decision-making analysis in capital allocation processes, taking into account the time value of money as a paradigm of modern finance. Optimisation of the capital structure and financing mechanisms: An analysis of decision-making processes regarding the selection of funding sources, with particular emphasis on the determinants of raising capital and the cost of capital in shaping the liability structure.</p> <p>Managing risk and profitability through leverage and break-even point analysis: The use of break-even point (BEP) analysis and the interplay between operating and financial leverage as a basis for decision-making processes in the areas of cost structure optimisation and overall enterprise risk management. Financial diagnosis as the basis for management processes: The use of indicator analysis in monitoring financial health and as a tool for assessing the effectiveness of financial decisions.</p> <p>Workshop on financial mathematics in investment decisions: Mechanisms for capitalising interest in the short and long term. Modelling the effect of interim capitalisation on the present value of capital. Present value of cash flows (discounting). Decision-making considerations regarding forms of capital investment.</p>	SD_W01 SD_W02 SD_W03 SD_W07 SD_U03 SD_U07 SD_K01 SD_K04

			<p>Optimising capital structure in decision-making processes: Calculation of the cost of borrowed capital (debt). Estimating the cost of equity capital. Weighted average cost of capital (WACC). Analysis of the impact of increased debt on the weighted average cost of capital.</p> <p>Operationalisation of the break-even point and leverage: Determining the break-even point in terms of quantity and value for a single-product firm. Determining the break-even point as a measure of operational risk in relation to generation capacity and market demand. Safety margin analysis. Measuring operational and financial risk: calculating the degree of operational leverage (DOL) and financial leverage (DFL).</p> <p>The use of combined leverage (DTL) to forecast fluctuations in net profit based on assumed fluctuations in sales revenue.</p> <p>Financial diagnostics in management practice: Comparative analysis of financial statements: vertical and horizontal analysis of the balance sheet and profit and loss account (identification of trends). Ratio Analysis Workshop: calculating and interpreting liquidity ratios (CR, QR), profitability ratios (ROS, ROA, ROE) and debt ratios. Operational efficiency analysis: cash conversion cycle and inventory and receivables turnover as measures of the effectiveness of short-term decisions.</p>	
3.11.3	Techniques and tools in manager's work	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	<p>Team-building methods within an organisation aimed at achieving synergy. Identifying organisational issues that need to be addressed in the day-to-day running of the business.</p> <p>Business practice. The use of heuristic techniques to find solutions to organisational problems in operational activities. Identifying organisational solutions in the operational decision-making process.</p> <p>Conditions for developing options for addressing organisational issues and making sound decisions in a structured manner.</p> <p>Setting objectives and tasks pertaining to operational decisions</p>	SD_W01 SD_W02 SD_W03 SD_W07 SD_U03 SD_U07 SD_K01 SD_K04

			within the company. Resolving conflicts between team members or between groups of staff. Facilitating team meetings.	
3.11.4	Strategic financial management	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The concept and scope of strategic financial management. The company's financial objectives from a strategic perspective. Strategic financial decisions. Strategic investment decisions. Value management and business valuation. The essence of a company's value. Value-Based Management. Basics of business valuation. Approaches to business valuation: income-based, asset-based and comparative. Valuation of companies in conditions of uncertainty. Valuation of intangible assets.	SD_W01 SD_W02 SD_W03 SD_W07 SD_U03 SD_U07 SD_K01 SD_K04
OPTIONAL SUBJECTS				
3.11.5	Methodology of Management and Quality Sciences	Polish / 15 hours / lecture / graded pass	The original nature of scientific research as a result of identifying and filling gaps in the current state of knowledge. Paradigms in management and quality sciences. Methodology of systematic literature reviews and their significance in the research process. Stages of the research process and priorities for selecting sources. Scientific study design. Research problems in management and quality sciences – definition, types and significance for the development of a research concept. Formulating scientific problems. Quantitative and qualitative research in management and quality sciences. Pitfalls and dilemmas in conducting qualitative research. Quantitative methods in management and quality sciences. Empiricism and deduction in the methodology of the social sciences. Methodological rigour – its essence and significance. Triangulation in the study of complex research problems. Case study as a research method in management and quality sciences. Methodological issues with the narrative approach in organisational research. Ethical aspects of empirical research.	SD_W01 SD_W02 SD_W03 SD_W07 SD_U03 SD_U07 SD_K01 SD_K04
3.11.6	Strategic decision-making	Polish / 15 hours / lecture / graded pass	Strategy as an emerging pattern of strategic decisions. An organisation's absorptive capacity as a sequence of strategic decisions.	SD_W01 SD_W02 SD_W03

			Dynamic managerial capabilities as key determinants of strategic decisions. Strategic decisions in the process of implementing the circular economy (CE). Blockchain as a source of new logic for strategic decision-making. Metaphors of organisational wisdom as a regulator of rationality in strategic decision-making. Methodological approach to research on strategic decision-making.	SD_W07 SD_U03 SD_U07 SD_K01 SD_K04
3.11.7	Future skills in management	English / 15 hours / lecture / graded pass	The concept of future-oriented skills / 21st-century skills / 21st-century competencies. Classification of future-oriented skills. Skills currently required in the field of management. Identifying future-oriented skills using futurology methods. The gap between the skills required today in management and those required in the future. Supporting the development of future-oriented skills in management.	SD_W01 SD_W02 SD_W03 SD_W07 SD_U03 SD_U07 SD_K01 SD_K04
3.12 BIOLOGICAL SCIENCES				
OBLIGATORY SUBJECTS				
3.12.1	Biodiversity – theory and practice	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Concepts of biodiversity. Classification. The value of genetic diversity within a species. The continuum theory. The neutral theory. The metapopulation theory. Fractal theory. Aggregated Poisson distribution.	SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.12.2	Molecular biology of cancer – implications for diagnosis and modern treatment	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Molecular and cellular mechanisms of neoplastic transformation, oncogenes and tumor suppressor genes, driver and passenger mutations, genomic instability, DNA repair mechanisms (MMR, HR, NHEJ), mutational signatures, and clonal evolution of tumors. Cancer epigenetics (DNA methylation, histone modifications, microRNAs), epigenetic diagnostic and prognostic biomarkers. Tumor microenvironment (cell–cell interactions, cancer-associated fibroblasts (CAFs), angiogenesis, and tumor	SD_W01 SD_W02 SD_W07 SD_U01 SD_U07 SD_U03 SD_K04

			metabolism). Molecular diagnostics of cancer (NGS, WGS, WES, RNA-seq, liquid biopsy, ctDNA), analysis of somatic and germline mutations, and interpretation of genetic variants. Molecular biomarkers in oncology (PD-L1, MSI/dMMR, TMB, genetic signatures). Targeted therapies and resistance mechanisms (TKIs, PARP inhibitors, ADCs). Tumor immunology and immunotherapy (immune checkpoints, PD-1/PD-L1 inhibitors, CTLA-4). Cellular therapies (CAR-T, TILs, NK cells, TCR-T). Gene therapies and oncolytic viruses (vectors, CRISPR/Cas9). Precision medicine in oncology (integration of multi-omic data, artificial intelligence, basket and umbrella trials). Bioinformatic analysis of NGS data, molecular oncology databases. Interpretation of liquid biopsy and MRD. Designing treatment strategies. Patient selection for immunotherapy, analysis of clinical trials, and ethical considerations in genetic diagnosis and advanced therapies.	
3.12.3	Global environmental changes	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Destruction of plant communities – extermination of plant and animal species, their causes and consequences. Destruction of tropical rainforests, pollution of rivers and coastal ocean waters, atmospheric pollution, and their impact on climate. Lithospheric plate movements and their effects on the Earth’s surface (earthquakes, volcanic eruptions, and associated phenomena such as tsunamis). Climate change throughout Earth’s history. Climate drying trends, changes in humidity and air temperature, glacier melting, and extreme weather events. Space threats (asteroids).	SD_W02 SD_W07 SD_U01 SD_U03 SD_K04
3.12.4	DNA repair pathways in drug development	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Types and mechanisms of DNA damage: base loss, intercalation, modifications of nitrogenous bases (alkylation, methylation, hydrolytic deamination, oxidation), single- and double-strand DNA breaks, DNA–DNA crosslinks, and DNA–protein crosslinks. DNA repair mechanisms (systems): BER, NER, MMR, NHEJ, homologous recombination (HR), direct repair. DNA damage and its repair/apoptosis. Methods for studying DNA damage and repair: comet assay (alkaline and neutral versions), FISH, pulsed-	SD_W01 SD_W02 SD_W07 SD_U01 SD_U07 SD_U03 SD_K04

			field gel electrophoresis, chromosomal aberration analysis, micronucleus test, clonogenic assay, γ -H2AX assay, plasmid conformational transition analysis, and PCR-based techniques: RFLP-PCR, real-time PCR (TagMan), HRM-PCR, immunoserological methods: ELISA, confocal microscopy, flow cytometry.	
ELECTIVE SUBJECTS				
3.12.5	Epigenetic mechanisms	Polish / 15 hours / lecture / graded pass	Epigenetic regulation of chromatin processes. Post-translational modifications of histones and the recognition of specific tags in histones. Chromatin remodelling and the protein complexes involved in this process. The influence of the environment on changes in gene expression. Metabolic regulation of DNA and histone methylation. Non-coding RNA, mRNA degradation and their role in the formation of constitutive chromatin. The role of epigenetics in adaptive evolution. Impact of environmental factors on epigenetic processes. Cancer epigenetics. Epigenetic mechanisms in immune, neurological and metabolic disorders. Epigenetic silencing of transgenes.	SD_W01 SD_W07 SD_U01 SD_U03
3.12.6	Gene expression analysis	English / 15 hours / lecture / graded pass	Analysis of genes or their expression products using imaging methods, amplification, probe hybridization, or sequencing-based techniques. Regulation of gene expression. Gene networks. Databases for gene expression analysis.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U07 SD_U03
3.12.7	Bacterial antigens	English / 15 hours / lecture / graded pass	Morphology of a bacterial cell. Factors contributing to bacterial pathogenicity. Terminology (epitope, allergen, superantigen, tolerogen, immunoglobulin) Exogenous and endogenous antigens. Autoantigens. Tumour antigens (neoantigens). Antigenic specificity.	SD_W01 SD_U01 SD_U07 SD_U03 SD_KK04
3.12.8	Trends in the biological sciences	English / 15 hours / lecture / graded pass	Is there an alternative to stem cells? Alternative regeneration methods. The secrets of plants. Photosynthesis in cereal grains. Artificial life from the laboratory (Paris japonica)	SD_W01 SD_W02 SD_U01 SD_U07

				SD_U03 SD_K04
3.13 CHEMICAL SCIENCES				
OBLIGATORY SUBJECTS				
3.13.1	Modern methods of analytical chemistry	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Modern methods of instrumental analysis of selected chemical substances. Electroanalytical methods – advantages and limitations, and selection criteria. Voltammetric techniques. Voltammetry using microelectrodes. Instrumental methods for the determination of trace elements.	SD_W01 SD_W02 SD_U03 SD_K04
3.13.2	Selected topics in modern inorganic, coordination, and bioinorganic chemistry	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Notable ligands used in recent syntheses of coordination complexes. Coordination compounds in medicine and biomedical sciences. Modern physicochemical methods used in coordination and bioinorganic chemistry. Polynuclear complexes as a basis for multifunctional molecular materials. Advantages and limitations of modern theories describing coordination bonding.	SD_W01 SD_W02 SD_W07 SD_U01
3.13.3	Current issues in environmental geochemistry	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Environmental geochemistry as a branch of geochemistry. Application of geochemical studies in environmental science. Application of geochemical methods in the study of environmental pollution and the remediation of contaminated sites. Environmental geochemistry and health. Geotoxicology. Forensic geochemistry. Example studies in environmental geochemistry conducted at the Institute of Chemistry, Jan Kochanowski University in Kielce.	SD_W01 SD_W02 SD_U03 SD_K04
3.13.4	Modern research directions in physical chemistry	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Theory of separation phenomena, adsorption and partitioning, and intermolecular interactions. Modern extraction and chromatography techniques. Gas chromatography, column and thin-layer liquid chromatography, and supercritical fluid chromatography. Sample fragmentation and structural determination of low- and high-molecular-mass compounds using low- and high-resolution techniques and ionization	SD_W01 SD_W02 SD_U01 SD_U03 SD_K04

			methods (EI, CI, FI, FAB, MALDI, ESI, APCI). Combined GC/MS, LC/MS, CE/MS and MS/MS techniques. Application of these techniques for qualitative and quantitative analysis. Theoretical foundations of modern molecular spectroscopy techniques.	
ELECTIVE SUBJECTS				
3.13.5	Selected topics in modern organic chemistry	Polish / 15 hours / lecture / graded pass	Contemporary issues in the stereochemistry of organic compounds. Synthesis techniques and methods. Biocatalysis.	SD_W01 SD_W07 SD_U01 SD_U03 SD_K04
3.13.6	Selected research problems in coal technology and modern alternative energy sources	Polish / 15 hours / lecture / graded pass	Issues related to the use of alternative energy sources. Controversies related to the implementation of clean coal technologies. Specificity of adapting chemical, physical, and physicochemical research methods for determining parameters characterizing the structure and composition of coal.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_K04
3.13.7	Modelling chemical reactivity using molecular dynamics simulations	English / 15 hours / lecture / graded pass	Fundamental concepts of molecular dynamics methods: Born–Oppenheimer and Car–Parrinello approaches. Modelling rare events: constrained dynamics and metadynamics. Prediction of reaction pathways and calculation of free energy barriers.	SD_W01 SD_U01 SD_U03 SD_U07
3.13.8	Symmetry in chemistry	English / 15 hours / lecture / graded pass	Prediction of chemical properties of molecules based on their symmetry. Applications of group theory in physical chemistry, quantum chemistry, and inorganic chemistry.	SD_W01 SD_W07 SD_U01 SD_U07
3.13.9	The influence of hydrogen bonding on molecular arrangement in molecular crystals	Polish / 15 hours / lecture / graded pass	Hydrogen bonding: characterization, classification, binding energy, biological aspects, H/D isotope effects in chemistry and biology, hydrogen bonding in molecular crystals (selected examples), and its role in stabilizing biologically active compounds.	SD_W01 SD_U01 SD_U03
3.13.10	Thermal and spectroscopic methods used in materials characterization	Polish / 15 hours / lecture / graded pass	Thermal analysis techniques (TG, DTA, DSC, flash DSC, HPDSC, TMA, DMA, OAT), coupled techniques TG-FTIR, TG-MS. Theoretical background. Applications of thermal analysis techniques in various industrial sectors, and thermal calculations.	SD_W01 SD_W07 SD_U01 SD_K04

			Interpretation of thermograms. Determination of basic thermal parameters. Methods for determining the activation energy of degradation (destruction). TG/DTA analysis. DSC analysis. Coupled TG-FTIR techniques (gas analysis) Using the Proteus software.	
3.13.11	Volatomics	English / 15 hours / lecture / graded pass	Volatomics as a new field of systems biology. Volatile organic compounds (VOCs) as carriers of information about biochemical processes occurring in the human body for the purposes of medical diagnostics, therapy monitoring, and disaster emergency response. Analytical techniques used for the determination of volatile metabolome components in exhaled breath and those emitted by various body fluids and tissues (e.g. skin, urine, sweat), as well as cell and bacterial cultures (including GC-MS, PTR-MS, IMS, SIFT-MS, and chemical sensors). Breath tests. Mathematical models of the kinetics and dynamics of exchange processes of respiratory volatile biomarkers between the organism and the environment, and between body fluids and tissues.	SD_W01 SD_W02 SD_U01 SD_U03 SD_U07
3.13.12	Ion mobility spectrometry (IMS) and related techniques	English / 15 hours / lecture / graded pass	Fundamentals of ion mobility spectrometry: principles of ion mobility theory and chemical ionization in positive and negative modes. IMS techniques (AIMS, DT-IMS, FAIMS, TWIMS/TIMS, HEiK-IMS) and coupled techniques (GC-IMS, IMS-MS). Proton-transfer-reaction mass spectrometry (PTR-MS). Selected ion flow tube mass spectrometry (SIFT-MS). Overview of applications of IMS and PTR-MS techniques in the detection of biomarkers in medicine, disaster emergency response, and the detection of explosives, toxic industrial substances (TIS), narcotics, and chemical warfare agents (CWAs).	SD_W01 SD_W02 SD_U01 SD_U03 SD_U07
3.13.13	The Anthropocene – a multidisciplinary approach	English / 15 hours / lecture / graded pass	The History of the Anthropocene. The definition and meaning of the term 'Anthropocene' across various disciplines. The Anthropocene as a subject of research in the natural sciences. Anthropocene research methodology. Environmental archives and paleoenvironmental reconstructions. Pollutants as	SD_W02 SD_W07 SD_U03 SD_K02

			indicators of the Anthropocene – chemostratigraphy. Metals Stable isotopes. Radioisotopes. Organic pollutants. Microplastics. The significance of Anthropocene research.	
3.14 PHYSICAL SCIENCES				
OBLIGATORY SUBJECTS				
3.14.1	Quantum mechanics	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Description of quantum mechanics in the Schrödinger, Heisenberg, and Feynman formalisms. Theoretical classes supplemented with computational exercises.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02 SD_K04
3.14.2	Atomic physics	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Modern description of atoms and molecules. Theoretical and experimental aspects of molecular spectroscopy.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02 SD_K04
3.14.3	Experimental methods in modern physics	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Particle detectors in physics; data analysis; overview of the largest experimental collaborations; NA61 example; ongoing and planned experiments in high-energy physics; examples of low-energy physics experiments; EBIS at Jan Kochanowski University in Kielce (UJK).	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02 SD_K04

3.14.4	Introduction to the General Theory of Relativity	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Fundamentals of relativity theory (equivalence principle, motion in a strong gravitational field, gravitational waves). Astrophysics: the stability of neutron stars. The Standard Model of cosmology.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02 SD_K04
ELECTIVE SUBJECTS				
3.14.5	Computer-based methods	English / 15 hours / lecture / graded pass	Use of computer software such as Mathematica for solving physics problems.	SD_W01 SD_W02 SD_U03 SD_U07 SD_K02 SD_K04
3.14.6	Relativistic quantum mechanics	English / 15 hours / lecture / graded pass	Consequences of relativity in quantum mechanics: the Dirac equation and the Klein-Gordon equation. Fundamentals of field theory.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02 SD_K04
3.14.7	Statistical methods	English / 15 hours / lecture / graded pass	Statistical methods: estimation of parameter uncertainties and assessment of goodness of fit. Mathematical foundations necessary for describing statistical problems. Development of problem-solving skills.	SD_W03 SD_U02 SD_U07 SD_K05
3.14.8	Statistical physics	English / 15 hours / lecture / graded pass	Fundamentals of classical and quantum thermodynamics: Bose-Einstein and Fermi-Dirac statistics.	SD_W01 SD_W02 SD_W07

				SD_U01 SD_U03 SD_U07 SD_K02 SD_K04
3.14.9	Introduction to the Standard Model of particle physics	English / 15 hours / lecture / graded pass	Description of the Standard Model of elementary particles: Higgs physics and its decays, and the characteristics of the strong and weak interactions.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02 SD_K04
3.14.10	Chaos and nonlinear dynamics	English / 15 hours / lecture / graded pass	Flows on a line: one-dimensional differential equations and their interpretation in physics and other natural sciences. Fixed points and their classification; stability of solutions. Dynamic systems in physics, biology and chemistry: population dynamics, models of chemical reactions, the Lotka-Volterra equations, and simple physical models. Two-dimensional flows: fixed points, attractors, and Lyapunov stability. Limit cycles and bifurcations; oscillations in physical, biological, and chemical systems. Three-dimensional systems and the emergence of chaos in selected examples from physics and Earth sciences. Lyapunov exponents and their interpretation in various fields of science. Deterministic chaos in applications: nonlinear physics, weather forecasting, climate dynamics, and limits of predictability. Definition of chaos and some simple numerical examples. The concept of a strange attractor and its significance in physical and natural models.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K02 SD_K04
3.15 EARTH AND ENVIRONMENTAL SCIENCES				

OBLIGATORY SUBJECTS				
3.15.1	Contemporary issues in physical geography	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Overview of current issues in physical geography in the light of the relevant literature. Methodological concept of a river catchment geo-ecosystem. Methods for assessing the rate of soil erosion. Gorge erosion in Poland. Impact of heavy rainfall on changes in the landform of loess areas. Lithological characteristics of slope deposits and their palaeogeographical significance. Geographical issues in urban areas and the role of geographers in identifying them. Hydrometeorological processes in urban areas – causes of flood hazard. Flood hazard and risk maps for urban areas. Thematic maps as a source of information about the geographical environment. Usefulness of the content of the Hydrographic Chart at a scale of 1: 50,000 for the analysis of changes in the terrain. Assessment of the ecological stability of the area in light of its use and development. Assessment of the naturalness of small watercourses through cartographic analysis and field mapping. Practical application of advances in geographical science. Impact of tourism on the geographical environment.	SD_W01 SD_W02 SD_U01 SD_U03 SD_K04
3.15.2	Zoning and stratification of the Earth's epigeosphere	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Epigeosphere from a geosystem perspective. Changes in the epigeosphere across different timescales. Hierarchical organisation of environment components. Regionalism and anti-regionalism – causes and effects. The zoned nature of abiotic and biotic components. Stratification – causes and effects. Stratification of abiotic and biotic components. Zoning versus stratification – similarities and differences. Changes in zones and strata in the Quaternary. Morphoclimatology – key concepts, research objectives, history and the current state of research. Landforms shaped by endogenous and exogenous factors – their interrelationships and transformations in different climate zones. Characteristics of the various morphoclimatic zones on Earth. The significance of the presence of a specific group of landforms for the functioning of other environmental components within a	SD_W01 SD_W02 SD_U01 SD_U03

			given climate zone. Anthropogenic changes in specific zones – the impact and effects of human activity. Changes in morphoclimatic zones throughout Earth’s history – relict shapes.	
3.15.3	Applied physical geography	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Natural resources in Poland and around the world, and their degradation and conservation. Natural and environmental disasters. Sustainable development. Protection of minerals. Examples of new approaches to protecting natural resources in Poland and around the world. Geo-environmental mapping. Legal framework for the protection of the abiotic natural environment in Poland.	SD_W01 SD_W02 SD_U01 SD_U03 SD_U07 SD_K04
3.15.4	Human pressure on the natural environment	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Pollution of air, water and soil Trace elements. Acidification. Alkalinisation. Bioaccumulation. Bio- and geo-indicators. Anthropogenic impact on forest ecosystems.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_K04
OPTIONAL SUBJECTS				
3.15.5	Geoinformation	Polish / 15 hours / lecture / graded pass	European and national trends in the use of GIS systems and spatial information in the economy and public administration. Sources of spatial data and basic methods for acquiring, processing, visualising and interpreting it. Principles of programming and automating processes for data collection, spatial analysis and the dissemination of results. Algorithms and data structures, and methods for their implementation. Methods for representing and modelling spatial data, and for designing and managing databases.	SD_W02; SD_W03; SD_U03; SD_K04
3.15.6	Modelling of processes and natural phenomena	Polish / 15 hours / lecture / graded pass	Models of geographical reality (mental, topographical, cartographic, remote). Methods for acquiring spatial data and performing spatial analyses. Administration of the Topographic Object Databases, the General Geographic Object Database, and the Land and Buildings Register. Practical uses of digital terrain	SD_W01; SD_W02; SD_U03; SD_K02

			models. Geovisualisation: selected examples – interpretation and significance. Geomarketing.	
3.15.7	The functioning of geo-ecosystems and environmental monitoring	Polish / 15 hours / lecture / graded pass	Geographical distinctiveness of geo-ecosystems. Selected aspects of the functioning of river and lake catchment geo-ecosystems in the context of climate change and increasing anthropogenic pressure. Current status, sources of threat, and methods of protecting river and lake catchment geo-ecosystems (diagnostic studies). Natural and anthropogenic changes in the geo-ecosystems of river and lake catchment areas. Modelling and scenarios for the development of river and lake catchment geo-ecosystems in the context of changing climate and land-use models. Amended environmental monitoring legislation in Poland. Poland's participation in the implementation of international conventions and programmes. Information function of monitoring. Documents containing information on the state of natural resources in Poland. Environmental Protection Inspectorate – new monitoring responsibilities. State Environmental Monitoring in Poland – monitoring subsystems: air, surface water, groundwater, soil, noise, ionising radiation, nature (including forest monitoring), and integrated environmental monitoring. Current environmental issues and addressing their impact.	SD_W07; SD_W03; SD_K02
3.15.8	Holocene palaeogeography and geoarchaeology	English / 15 hours / lecture / graded pass	Selected issues in palaeogeography. Environmental variability in Central Europe during the Late Glacial and Holocene periods. Methods of palaeogeographical reconstruction. Similarities and differences in chronostratigraphy, methods and interpretations used in the natural sciences and the humanities. The Świętokrzyskie Mountains region in Roman times – human activity and the environment. Geoarchaeology – basic concepts, scope and research objectives. Sediments, soils and environmental interpretations. Paleoclimate. Environmental context and the formation of archaeological sites in various environmental conditions. Research methods in geoarchaeology	SD_W02; SD_U04; SD_U07 SD_K02

			and spatial analysis. Comparison of geological, pedological, biostratigraphic and archaeological stratigraphy, and methods of absolute dating. Paleoenvironmental reconstructions based on selected examples from the Palaeolithic, Neolithic, Bronze Age and Iron Age.	
3.16 VISUAL ARTS AND ART CONSERVATION				
OBLIGATORY SUBJECTS				
3.16.1	Research methodology in the fine arts and design	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Research methods, analytical models and approaches to the interpretation of artistic works and projects within the fields of fine arts and art conservation, with particular emphasis on the relationship between creative practice, theoretical reflection and the documentation of the creative process. The course covers the principles of structuring a doctoral dissertation proposal, formulating a research question, selecting methods, critically analysing visual material, and editing academic and artistic texts within the context of practice-based research.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.16.2	Curator, facilitator and artist	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Contemporary creative and curatorial strategies for building relationships with the public in the context of exhibition design, educational and engagement programmes, and artistic activities in public spaces. Models of participation and cultural mediation, drawing on practical experience of implementing projects to promote the arts, encompassing the conception, organisation, communication and evaluation of activities within the actual institutional and social context.	SD_W01 SD_W02 SD_W06 SD_U01 SD_U02 SD_U06 SD_U07 SD_K05
3.16.3	Doctoral dissertation research support	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Self-paced work on a doctoral project focused on the deliberate expansion of formal, media-based and conceptual language through the integration of art, design and new media into the artist's own creative practice. Critical analysis of the conceptual and visual coherence of the work in progress, experimentation with means of expression, and the deepening of artistic discourse	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_K04

			in relation to the established research and methodological principles.	
3.16.4	Artistic and design theories and practices	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Contemporary theories and trends in artistic and design research, with particular emphasis on the relationship between creative practice, the research process and formal decision-making, as well as the status of the artwork and the design project as tools for generating knowledge. Artistic and design strategies, qualitative research methods, visual studies, and critical reflection on the integration of theory, method and practice in individual and collaborative creative activities.	SD_W01 SD_W02 SD_U04 SD_U10 SD_K02
OPTIONAL SUBJECTS				
3.16.5	Selected topics in fine arts and design	Polish / 15 hours / lecture / graded pass	Current practices in the fine and design arts from a comparative perspective, taking into account shifts in formal, aesthetic and methodological paradigms, as well as the tension between the continuum of tradition and artistic experimentation. A critical examination of contemporary artistic and curatorial discourses, alongside a reflection on the structure of the art world, its institutional and non-institutional circuits, and strategies for the visual articulation and reception of artworks.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.16.6	Contemporary art criticism and media	English / 15 hours / lecture / graded pass	Key source texts, contemporary journals and publishing platforms covering the 20th- and 21st-century art and design, with an analysis of critical discourse, argumentative strategies and the relationship between art writing, curating and exhibition practice. Art and design criticism as a diverse discursive practice: essays, reviews, curatorial texts, artists' statements, as well as contemporary transmedia formats such as podcasts, video reflections and visual essays as tools for interpretation and creative self-commentary.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.16.7	Social and cultural context of artistic and design practices	Polish / 15 hours / lecture / graded pass	Culture, art and design as subjects of analysis in cultural and social sciences, examined through the lens of sociological concepts and interpretative models describing the relationship between creative output and social structures. Multifaceted study of the relationship between artistic and design practices	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03

			and the processes of democratisation, participation and social engagement, taking into account socially engaged art and social design as forms of cultural influence.	SD_U07 SD_K04
3.16.8	Contemporary critical discourses in culture and art	English / 15 hours / lecture / graded pass	Contemporary critical theories as interpretative tools in the analysis of visual culture and artistic practices, with particular focus on the Frankfurt School tradition, the concept of biopolitics, and the interplay between power, representation and the body in the field of art. An in-depth examination of discourses within cultural gender theory, performativity, feminism, and post-colonial and minority studies, aimed at identifying the mechanisms of oppression, exclusion and identity negotiation within contemporary culture.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_U07 SD_K04
3.16.9	The psychology of creativity	Polish / 15 hours / lecture / graded pass	Visual perception and the neuroaesthetic and cognitive determinants of reception, encompassing issues of vision, affect, attention and the construction of aesthetic experience. Psychoanalysis theories of art and the creative process (Freud, Jung, Lacan, Klein) as tools for interpreting the symbolism of images and unconscious structures of meaning in artistic and design practices.	SD_W01 SD_W02 SD_W07 SD_U01 SD_U03 SD_K04
3.16.10	Cultural and art anthropology	Polish / 15 hours / lecture / graded pass	Artistic and design practices understood as a space of human visual and material experience, with particular emphasis on the relationship between the image, the body and the object as vehicles of cultural meaning and as forms of constructing identity and memory. The artwork and the creative process from the perspective of visibility, sensuality and materiality, in relation to the issues of perception, bodily presence, the status of the object, and artistic strategies for mapping experiences in contemporary culture.	SD_W01 SD_W06 SD_U03 SD_K02
3.17 MUSIC				
OBLIGATORY SUBJECTS				
3.17.1	An introduction to the 20th-century music	Polish / 30 hours including 15 hours	An overview of the main trends and movements in 20th-century music, with particular emphasis on solo	SD_W01 SD_W02

		of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	and chamber music. Silhouettes of the most important composers of the 20th century, their styles and compositional techniques. The course covers expressionism, impressionism, dodecaphony, neoclassicism, serialism, barbarism, spectralism, postmodernism, sonorism, aleatoricism, minimalism and electronic music. Developing the ability to listen to and analyse a contemporary piece of music critically. Exploring modern techniques of articulation, sound production and the use of instruments in contemporary solo, chamber and orchestral music.	SD_U04 SD_K02
3.17.2	Voice projection and diction for musicians	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	The conditions for correct phonation and vocal hygiene in the work of a musician and teacher. Breathing exercises for clear pronunciation, exercises to improve articulation; work with advanced texts. Development of conscious phonation, the opening of the resonance pathways, the refinement of voice production (in speech) in terms of resonance and projection. Raising awareness of the role of the voice in the professional lives of various groups - teachers, trainers and entrepreneurs, musicians and actors (artists). Voice disorders common in musicians.	SD_W01 SD_U04 SD_U07 SD_U10 SD_U11 SD_K02
3.17.3	Musical analysis	English / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture), graded pass (seminars)	Advanced knowledge of the theoretical aspects of various formal models and compositional techniques. Presentation of alternative solutions within the framework of the formal structures studied. Developing the ability to independently analyse 18th- and 19th-century compositions.	SD_W03 SD_W05 SD_U03 SD_U05 SD_U07 SD_K02
3.17.4	Economics of culture	Polish / 30 hours including 15 hours of lectures and 15 hours of seminars / exam (lecture),	Advanced economic laws and theories. The functioning of the cultural economy in the private and public sectors in capitalist, communist and mixed economies. Developing a business plan. The role and functions of the artist-musician in the 21st-century economy.	SD_W01 SD_W06 SD_W08 SD_U05 SD_U07 SD_U08

		graded pass (seminars)		SD_K03
OPTIONAL SUBJECTS				
3.17.5	History of musical forms and styles	English / 15 hours / lecture / graded pass	An introduction to the history and music literature of various periods and aesthetic canons, as well as genres and compositional techniques, from the Middle Ages to the 20th century. Illustrating the evolution of musical genres, styles and forms, as well as the contradictions that have arisen in the course of this evolution.	SD_W02 SD_U04 SD_U07 SD_K02
3.17.6	Psychology of music	Polish / 15 hours / lecture / graded pass	Musical development of a human being. Discussion on the factors influencing a person's musical development. Development of musical abilities and the stages of a child's development. Methods of assessing musical ability. Brain function during various types of musical activity, and the issue of stage fright among musicians. New trends in music education. Perception of music and its determinants. Difficulties and obstacles in musical development.	SD_W01 SD_U03 SD_U10 SD_W01 SD_K03
3.17.7	History of culture	Polish / 15 hours / lecture / graded pass	The aim of the course is to familiarise students with the most important sources of contemporary European culture and its history, with a particular focus on continuity. At the same time, the course aims to develop the ability to consider cultural issues objectively (using appropriate terminology).	SD_W01 SD_W06 SD_U03 SD_K02
3.17.8	Copyright in music	Polish / 15 hours / lecture / graded pass	Copyright in music. Key concepts: musical work, composer, co-authorship, adaptation and arrangement. Moral and economic rights – scope of protection, duration, fields of exploitation. Plagiarism and inspiration in practice: similarities in melody, rhythm and harmony; musical quotation; pastiche and parody. Related rights in the music industry: the rights of performers, phonogram producers and broadcasters. Liability for infringements, pursuing claims, and protecting one's own recordings and promotional materials.	SD_W05 SD_W08 SD_U03 SD_K02

