1.	**Field of study**	**Quality Control Materials and Products**
2.	Faculty	Faculty of Science and Technology
3.	Academic year of entry	2025/2026 (summer term)
4.	Level of qualifications/degree	second-cycle studies
5.	Degree profile	general academic
6.	Mode of study	full-time
7.	ISCED code	0715 (Mechanics and metal trades)
8.	Number of semesters	3
9.	Degree	magister (Master's Degree)
10.	General characteristics of the field of study and the assumed concept of education	The Materials and Products Quality Control program expands on the field of materials science, focusing on the quality, reliability, and safety of modern materials and products. The program is interdisciplinary and combines knowledge from the fields of science, materials engineering, metrology, non-destructive testing (NDT), technical computer science, and quality management systems. The goal of the program is to prepare specialists with in-depth knowledge of material properties and competencies in assessing, controlling, and improving technological processes. Students acquire skills in planning and conducting materials testing, analyzing measurement data, interpreting results, and implementing quality procedures and systems compliant with applicable standards (including ISO 9001 and ISO/IEC 17025). The program includes both theoretical and practical classes—laboratory and project—enabling the acquisition of research skills and the use of modern IT tools in quality control. A key element of the program is the development of organizational and managerial competencies necessary to lead quality control teams in industrial enterprises and research centers. Graduates of this program are prepared to work in research and certification laboratories, quality control departments in industry, institutions implementing and supervising quality systems, as well as to conduct research and development activities and continue their education in doctoral studies.
11.	Information on the relationship between the studies and the university's strategy as well as the socio-economic needs that determine the conduct of studies and the compliance of learning outcomes with these needs	The Materials and Products Quality Control program is aligned with the University's Development Strategy, in particular with the goals of "Innovative education and modern teaching offerings" and "Active cooperation between the University and the socio-economic environment." The curriculum integrates scientific achievements in materials science with practical aspects of quality assessment and assurance, responding to the current needs of industry and the research and certification sector. The program prepares specialists capable of conducting research, assessing, and implementing quality systems in industrial enterprises, research laboratories, and technology centers. The program was created in response to the labor market demand for engineers with competencies in materials science, metrology, measurement data analysis, and quality management. The learning outcomes are aligned with the needs of a knowledge-based economy and innovation. Graduates possess interdisciplinary knowledge and the ability to combine materials science with the practice of quality control and technological process management. Collaboration with industry and the completion of theses in collaboration with businesses ensure a practical nature of education and an effective adaptation of the program to real socio-economic needs.
12.	Specializations	n/a
13.	General description of the specialization	Graduates of the Materials and Products Quality Control studies possess advanced knowledge in materials science, material processing, and the assessment of their functional properties, as well as competencies in quality control and metrology. They possess skills in applying modern research methods, analyzing measurement data, and IT tools supporting quality processes. The curriculum enables comprehensive quality assessment of various groups of materials, knowledge of manufacturing and processing processes, and effective collaboration in interdisciplinary teams. Graduates are prepared for work in industry, research and development

		institutions, control and certification laboratories, and small and medium-sized technology enterprises. The acquired knowledge allows for effective communication with both practicing engineers and scientists, as well as active participation in innovation processes and the implementation of technical solutions for the quality of materials and products.
14.	The semester from which the specializations starts	n/a
15.	Percentage of the ECTS credits for each of the scientific or artistic disciplines to which the learning outcomes are related to the total number of ECTS credits (along with the indication of the leading discipline)	• *[leading discipline]* materials engineering (engineering and technology): 100%
16.	Number of ECTS credits required to achieve the qualification equivalent to the level of study	90
17.	Percentage of the ECTS credits for optional modules in relation to the total number of ECTS credits	32%
18.	Total number of ECTS credits that a student must obtain in the modules taught	51
19.	Number of ECTS credits that a student must obtain in modules assigned to disciplines within the humanities or social sciences (not less than 5 ECTS) - in the case of fields of study assigned to disciplines within the fields other than, respectively, humanities or social sciences	8
20.	Number of ECTS credits - higher than 50% of the total number of credits - that a student must obtain: • in general university programmes within a module connected with research carried out in the scientific or artistic disciplines to develop his/her knowledge and research skills; • in practical programmes within a module to develop practical skills	54
21.	Total number of ECTS credits that a student must obtain in internships	0
22.	Internships (hours and conditions) in	not applicable

	the case of practical programmes and in general university programme - if such requires internship	
23.	Graduation requirements	The condition for admission to the diploma examination is to achieve the learning outcomes provided for in the study program, to obtain a certificate of an appropriate level of language proficiency in a foreign language and to obtain positive grades for the diploma dissertation. The condition for graduation is to pass the diploma examination with at least a satisfactory result. A graduate receives a higher education diploma confirming obtaining the qualifications of the appropriate degree. Detailed rules of the diploma process and the requirements for the diploma thesis are set out in the Rules and Regulations of Studies at the University of Silesia and the diploma regulations.