

## Study Programme: Part 1

| General Characteristics of the Study Programme                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Educational Unit Responsible for the Programme:</b>                                                                                                                                                                                                                                          | Department of Management and Economics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Field of Study:</b>                                                                                                                                                                                                                                                                          | Economics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Study Area (Specialization):</b><br><i>(the name of the area (specialization) must be appropriate to the content of the study program and especially to the assumed learning outcomes)</i>                                                                                                   | Aviation Business                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Level of Education:</b><br><i>(first-cycle studies, second-cycle studies, long-cycle Master's studies)</i>                                                                                                                                                                                   | First-cycle studies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Study Profile:</b><br><i>(general academic, practical)</i>                                                                                                                                                                                                                                   | Practical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Mode of Study:</b><br><i>(full-time, part-time)</i><br><i>Optional specific study systems (e.g., dual)</i>                                                                                                                                                                                   | Full-time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Number of Semesters:</b>                                                                                                                                                                                                                                                                     | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Internships (total duration):</b>                                                                                                                                                                                                                                                            | 960/6 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Occupational health and safety training in the following areas:</b>                                                                                                                                                                                                                          | 4 hours at the beginning of Semester 1, delivered as part of the Occupational Safety and Ergonomics module                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Occupational Health and Safety (OHS) Training:</b>                                                                                                                                                                                                                                           | 180 ECTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Total Number of ECTS Credits Obtained:</b>                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| For courses requiring direct participation of academic teachers or other instructors:                                                                                                                                                                                                           | 104 ECTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Within courses in the humanities or social sciences:                                                                                                                                                                                                                                            | 98 ECTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Within internships:                                                                                                                                                                                                                                                                             | 71 ECTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Within course modules related to practical vocational preparation:                                                                                                                                                                                                                              | 123 ECTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| For courses delivered using distance learning methods and techniques:                                                                                                                                                                                                                           | 5 ECTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| For elective courses:                                                                                                                                                                                                                                                                           | 59 ECTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Percentage Share of ECTS Credits for Each Discipline</b><br><i>(applies to a field of study assigned to more than one discipline):</i>                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Leading discipline: Economics and Finance                                                                                                                                                                                                                                                       | 64% of the total number of ECTS credits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Discipline(s): Management and Quality Sciences                                                                                                                                                                                                                                                  | 36% of the total number of ECTS credits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Total Student Workload (NPS):</b>                                                                                                                                                                                                                                                            | 4743                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Number of hours in direct contact</b>                                                                                                                                                                                                                                                        | 1679                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Professional Title Awarded to Graduates:</b>                                                                                                                                                                                                                                                 | Bachelor's degree                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Indication of Whether Stakeholder Opinions Were Considered in Defining Learning Outcomes and in the Preparation and Improvement of the Study Programme</b><br><i>(please indicate which employers have signed agreements, whether meetings were held, how graduates are monitored, etc.)</i> | Kancelaria Beata Roguszka, Agroma Olsztyn, Haven Invest, JMJ - Trans Janusz Łacny, Miejski Zakład komunikacyjny w BydgoszczyPolskie Towarzystwo Ekonomiczne oddział w Bydgoszczy, Logon SA, Zespół Szkół Samochodowych w Bydgoszczy, Zespół Szkół Mechanicznych nr 1 w Bydgoszczy, Logicos Izabela Bejma-Bąk, Vitroflora, Zelan sp. z o. o., Transport & Logistics Supply Chain, Stowarzyszenie przedsiębiorców kujaw i pomorza, Stowarzyszenie księgowych w Polsce oddział okręgowy w Bydgoszczy, STW Bydgoszcz, TMBM Sp. zoo w Bydgoszczy, Enpire - Łukasz Wojciechowski w Bydgoszczy Break f Wash sp z o.o., Fundacja Akademia Transportu,Autosoftware Wojciech Zalewski, Barbara Luijckx SP z o.o. |
| <b>Entry Requirements</b> <i>(expected candidate competencies – especially for second-cycle studies)</i>                                                                                                                                                                                        | In accordance with the applicable internal and external legal regulations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Curriculum part 2

Area: Aviation Business

Moduły kształcenia wraz z zakładanymi efektami uczenia się

| Educational Modules                                | Course Title                                             | Intended Learning Outcomes               | Course Content Ensuring the Achievement of Learning Outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Assessment Method   | ECTS Credits | Assessment Criteria / Verification Methods                                                                           |
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|                                                    | (* - oznacza przedmiot do wyboru)                        |                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |              |                                                                                                                      |
| Selected issues of economics and entrepreneurship  | Selected issues of economics and entrepreneurship        | K_W01, K_W03, K_W04, K_W10, K_K01, K_K04 | <p>a. Lecture Topics</p> <p>Topic 1 – Economics as a Science<br/>Economics as a science: its subject matter, objectives, and methods. Microeconomics and macroeconomics.<br/>Positive economics vs. normative economics. The necessity of making choices. The nature of economic decision-making and resource allocation. Optimization of economic decisions.<br/>Topic 2 – Basic Categories of a Market Economy. The market and its elements. Economic agents in the national economy.<br/>Demand, supply, prices, money, and competition. Engel's Law. Price elasticity of demand.<br/>Topic 3 – Theory of Consumer Behavior<br/>Total utility.<br/>Marginal utility and the First Law of Gossen.<br/>The Second Law of Gossen.<br/>Consumer surplus.<br/>Consumer indifference curves.<br/>Topic 4 – Theory of Firm Behavior<br/>The role of producers in a market economy.<br/>Production functions.<br/>Production costs.<br/>Economies and diseconomies of scale.<br/>Producer equilibrium (optimal production decision).<br/>Topic 5 – Types of Market Competition<br/>Perfect competition.<br/>Pure monopoly.<br/>Monopolistic competition.<br/>Oligopoly.<br/>Duopoly.<br/>Topic 6 – Production Costs in a Firm<br/>The nature and significance of costs.<br/>Cost classifications.<br/>Marginal cost (mathematical and economic interpretation).<br/>Technical optimum of production.<br/>Topic 7 – Factor Markets<br/>Factors of production (labor, capital, land, and technological progress).<br/>Labor market.<br/>Land market.<br/>Capital market.<br/>Remuneration of factors of production.<br/>Topic 8 – Equilibrium in Factor Markets<br/>Equilibrium in the labor market.<br/>Price elasticity of demand for factors of production.<br/>Monopsony in the labor market.<br/>Land rent and interest.<br/>Topic 9 – Market Inefficiency<br/>The market mechanism and market failures.<br/>Information asymmetry.<br/>Types of externalities.<br/>Public goods.<br/>Topic 10 – Elements of Welfare Economics<br/>Welfare economics.<br/>Pareto efficiency.<br/>Marginal productivity theory of factor pricing (demand and supply perspectives).<br/>Topic 11 – Main Directions of Modern Microeconomics<br/>Neoclassical theory of the firm.<br/>Managerial models of the firm.<br/>Model of internal inefficiency (X-inefficiency).<br/>Behavioral model of the firm.<br/>Topic 12 – Capital Markets<br/>Functions of capital markets and capital market instruments.<br/>Principles of stock exchange operation.<br/>Supply and demand in capital markets.<br/>Topic 13 – International Trade<br/>Theory of comparative costs (comparative advantage).<br/>Instruments of protectionism.<br/>Principles of the European Union's single internal market.<br/>Topic 14 – National Income Categories<br/>Circular flow of income in the economy.<br/>Gross Domestic Product (GDP).<br/>Gross National Product (GNP).<br/>Methods of calculating GDP.<br/>Topic 15 – Macroeconomic State Policy<br/>Monetary policy of the Central Bank (NBP – National Bank of Poland).<br/>Monetary policy instruments.<br/>Fiscal policy.<br/>Topic 16 – State Budget<br/>Budgetary principles.<br/>Budget deficit.<br/>Public debt.<br/>The role of the state budget.<br/>Topic 17 – Economic Growth Issues<br/>Factors of economic growth.<br/>Economic growth models (Harrod-Domar model).<br/>Topic 18 – Economic Analysis of the Labor Market and Unemployment<br/>Labor demand and labor supply.<br/>Causes and types of unemployment.<br/>Economic effects of unemployment.<br/>The Phillips Curve (including modified versions).<br/>Topic 19 – Supply-Side Economics<br/>Keynesianism.<br/>Monetarism.<br/>New Classical Economics.<br/>Alternative economics.<br/>Topic 20 – Economic Problems of Transition<br/>Conditions for the development of a market economy.<br/>Privatization of the economy.<br/>Development of capital markets.<br/>Structural changes in the economy.</p> | Passing             | 1            | Test on the e-learning platform, written assignments;<br>Discussion during classes initiated by the instructor.      |
| Library Training                                   | Library Training                                         | K_W06, K_K02                             | <p>Lecture:<br/>WSG Information and Library System;<br/>The WSG Main Library (or branch libraries) and their collections available online;<br/>Online catalogs;<br/>Access to and lending of library collections;<br/>Databases.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Passing             | 0            | Test on the e-learning platform;<br>Discussion (informal class conversation).                                        |
| Occupational Safety and Ergonomics                 | Occupational Health and Safety training                  | K_W05, K_W07, K_K03                      | <p>a. Lecture:<br/>Characteristics of the occupational health and safety (OHS) system in Poland;<br/>Explanation of the scope of OHS activities and definitions of basic OHS concepts;<br/>Discussion of fire protection principles and the employer's responsibilities in this area;<br/>Characteristics of fire safety requirements;<br/>Explanation of firefighting methods and description of standard firefighting equipment;<br/>Rules of conduct in case of fire and principles of evacuation procedures;<br/>Discussion of the tasks of the State Fire Service;<br/>Characteristics of the main elements of environmental protection;<br/>Explanation of basic issues related to pollution (air, water, and soil);<br/>Explanation of basic concepts concerning vehicle emission standards;<br/>Characteristics of activities related to waste disposal, recycling, and biodegradation;<br/>Employer's responsibilities regarding environmental protection;<br/>Characteristics of the work environment and methods of eliminating hazards within it;<br/>Classification of different types of human work;<br/>Definition of ergonomics and description of its main branches;<br/>Characteristics of activities related to workplace ergonomics;<br/>Description of activities related to the design of workplace layout, lighting, and color schemes in the work environment;<br/>Examples of ergonomic applications;<br/>Basic sources of labor law;<br/>Definitions of the terms: employee and employer;<br/>Comparison of employment based on an employment contract and on a civil-law contract;<br/>Employer's responsibilities in the field of occupational health and safety;<br/>Employers' rights and obligations regarding occupational health and safety;<br/>Elements of the system of control and supervision over legal OHS protection in workplaces;<br/>Characteristics of the tasks and powers of the National Labour Inspectorate;<br/>Characteristics of the tasks and powers of the State Sanitary Inspectorate;<br/>Characteristics of the tasks and powers of the Environmental Protection Inspectorate;<br/>Description of other institutions and services involved in occupational safety and environmental protection.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Passing             | 0            | Test on the e-learning platform                                                                                      |
| Basics of law and intellectual property protection | Fundamentals of law and intellectual property protection | K_W05, K_W07, K_W09, K_K02, K_K04        | <p>The concept of law and its functions; Concepts, legal system and other normative systems; System of law and legal norm; Standards and legal regulations; Creation of law and hierarchy of legal sources; Application and interpretation of law; Characteristics of basic branches of law; Intellectual property and its place in the legal system; Copyrights and proprietary copyrights; Protection of industrial property; Utility models, industrial designs, trademarks; Topography of integrated circuits, rationalisation projects, geographical indications</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Credit with a grade | 1            | Test;<br>Discussion during classes initiated by the instructor.                                                      |
| Modern technologies                                | Basics of distance learning                              | K_W06, K_K01, K_K02                      | <p>a. Lecture / Online Classes:<br/>Topic 1 – Lifelong Learning: the pace of changes in the surrounding world, methods of professional self-development and continuous learning;<br/>Topic 2 – Information Systems Security: logging into WSG systems, elements of network security;<br/>Topic 3 – Working with LMS (Learning Management Systems): locations where information is provided, sources of knowledge, engagement and activation methods, communication methods, and methods of assessing learning outcomes.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Passing             | 0            | Passing tests, quizzes, and assignments on the e-learning platform;<br>Participation in discussion forum activities. |

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| Practical Philosophy    | Ethics                                  |                                                                   | <p>Ethics as a Science</p> <p>The material and formal subject matter of ethics;</p> <p>Ethics and other axiological sciences;</p> <p>Normative ethics vs. descriptive ethics;</p> <p>Ethics and the meaning of life;</p> <p>Ethics and metaethics.</p> <p>Moral Norm</p> <p>The eudaimonist approach;</p> <p>The deontological approach;</p> <p>The consequentialist approach;</p> <p>The personalist approach.</p> <p>The Person as the Source of Morality</p> <p>The concept of a person;</p> <p>Human dignity;</p> <p>The understanding of free will;</p> <p>The ethics of protecting persons.</p> <p>Conscience as a Moral Standard</p> <p>The concept of conscience;</p> <p>Types of conscience;</p> <p>Is acting according to one's conscience always morally right?</p> <p>Situational ethics.</p> <p>Ethics and Contemporary Challenges</p> <p>Issues in sexual ethics;</p> <p>Major topics in bioethics;</p> <p>Environmental ethics;</p> <p>Animal rights ethics;</p> <p>Business ethics;</p> <p>Political ethics.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Credit with a grade | 1   | Test;<br>Discussion during classes initiated by the instructor.                                                                              |
|                         | Ethics of Artificial Intelligence       |                                                                   | <p>a. Lecture:</p> <p>Introduction: Everything We Need to Know to Get Started</p> <p>Algorithms and How They Ruin Our Lives</p> <p>Artificial Intelligence in Popular Culture</p> <p>Moral Dilemmas and Thought Experiments in Artificial Intelligence</p> <p>Current Trends in AI Ethics Research</p> <p>Humans Do Not Live by Artificial Intelligence Alone: Machine Consciousness, Humor, Emotions, and Common Sense</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Passing             | 1,5 | Test on-line                                                                                                                                 |
| Sciences of Culture     | Regionalism                             | K_W02_K_W04_K_W08_K_W10_K_U01_K_U02_K_U03_K_U07_K_K01_K_K04_K_K05 | <p>a. Lecture:</p> <p>Definitions of regionalism;</p> <p>Regional identity;</p> <p>Local identity;</p> <p>Historical determinants of regionalist movements;</p> <p>The region as a basis for social and cultural identification;</p> <p>The social role of regionalists;</p> <p>Historical determinants of the formation of regional and local cultural heritage;</p> <p>Regional and local heritage in the development of local tourism products;</p> <p>Strengthening regional identity through the activities of local governments;</p> <p>Selected issues from the history of the formation of Poland's regions;</p> <p>Regionalism in the cultural policy of the European Union;</p> <p>Regionalism as an endogenous development potential of the Kuyavian–Pomeranian Voivodeship;</p> <p>Support systems for endogenous potentials in the context of the First Congress of Regionalists of Kuyavia and Pomerania.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Passing             | 2   | Oral presentations, including substantive contributions to discussions;<br>Analysis of information on an assigned topic – oral presentation. |
|                         | World cultures                          | K_W04_K_W05_K_W07_K_U09_K_U10_K_U12_K_K01_K_K02_K_K05             | <p>Basic issues of cultural knowledge; discussion of representative concepts of culture; "history" of culture - presentation of selected concepts on the emergence of the phenomenon of culture. The concept of civilization; discussion of the basic theories on the formation of civilization and the interrelationship between civilization and culture using selected world cultures as examples. Cultural criticism; historical aspects of the "culture vs. power" approach using the example of post-colonialism. Relationships, hegemonies, social inequalities in correlation to world cultures. Differentiation of cultures and their dynamics. The concept of "cultural circle" and the axiological core and the concept of subculture. Determinants of cultural identity and definition of its essence; ethnicity and nationality. Magic, ritual and religion. Europe as a political, ideological, cultural "concept" and as a way of thinking - its staticness and dynamics. Other homogeneous, homeostatic and heterogeneous cultural systems in terms of their expansion.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Passing             | 1   | Final test, case study, participation in discussion, performing tasks individually and in groups                                             |
| Key social competencies | Inclusive education                     | K_W05_K_U04_K_K05                                                 | Specificity of Polish and European culture against cultures of other countries and continents; Specificity of functioning of the academic culture in order to adapt students                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Passing             | 0   | Multimedia presentation on a given topic                                                                                                     |
| Physical education      | Physical education (full-time studies*) | K_U11_K_U12_K_K01                                                 | Team games; General development activities with basketball, volleyball, handball, football, unhockey elements; Fitness                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Passing             | 0   | Test; self-assessment, analysis, observation                                                                                                 |
| Polish language culture | Polish language culture                 | K_U09_K_U10_K_U11_K_K01                                           | <p>Topics and vocabulary</p> <p>We are in Poland — cities and regions of Poland, Polish national symbols, Poland in numbers, Poland's geographical location, countries neighbouring Poland, names of nationalities.</p> <p>Studies — the role of education in human life, studying in Poland, the structure of universities and studies, academic life, foreign students in Poland.</p> <p>Family and work — the role of the family in the past and today, the model of the Polish family, names of professions, ranking of professions, career plans and vocabulary related to work.</p> <p>Daily routine — seasons, names of months, times of day, clock time, describing everyday activities, daily routine, and the advantages and disadvantages of planning.</p> <p>At the Polish table — national cuisines, eating at home and eating out, meals, dishes, tableware, menus, traditions of Polish cuisine, culinary curiosities and world cuisines.</p> <p>Short and long journeys — describing a walking or cycling trip, means of transport, communicative situations at railway stations, airports and on means of transport, giving directions and travelling around Poland and the world.</p> <p>Free time and entertainment — ways of spending free time, hobbies, passions, relaxation, entertainment, the culture of leisure time and the problem of internet addiction.</p> <p>Holidays, celebrations and customs — holidays and ways of celebrating in Poland, the calendar of Polish holidays, Christmas, Easter, All Saints' Day, holiday customs, family celebrations, giving wishes and holidays in other countries.</p> <p>Grammar issues</p> <p>Phraseological expressions related to the topics of individual classes.</p> <p>Revision and consolidation of noun and verb inflection.</p> <p>Nouns with more difficult declension, e.g. dzień, tydzień, miesiąc, rok, przyjaciel, ksiądz.</p> <p>The past tense, including verbs with more difficult conjugation, perfective and imperfective verbs, and verbs of motion.</p> <p>The simple and compound future tense.</p> <p>Verb moods and aspects.</p> <p>Declension of cardinal numerals, use of numerals with nouns functioning as the subject, words expressing quantity and numeral syntax.</p> <p>Communicative situations</p> <p>Expressing satisfaction and disappointment and justifying one's opinion.</p> <p>Expressing likes, dissatisfaction and criticism, and responding to criticism.</p> <p>Comparing people, places, phenomena and solutions, and describing their advantages and disadvantages.</p> <p>Expressing one's opinion assertively, refusing and participating in a discussion.</p> <p>Expressing necessity, asking for permission and responding to other people's requests.</p> <p>Negotiating conditions and reaching agreement.</p> <p>Expressing importance, indifference and distance towards the issues discussed.</p> <p>Expressing approval, disapproval and protest.</p> <p>Persuading, convincing and arguing.</p> <p>Formulating questions, hypotheses and assumptions.</p> | Credit with a grade | 4   | written assignment, speaking task                                                                                                            |

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| Foreign language | Foreign language I   | K_U09_K_U10_K_U11_K_K01             | <p>Polish: Topics and vocabulary: The Polish alphabet, pronunciation, stress and basic spelling rules. Phrases needed for classroom communication. Greetings, farewells, introducing oneself and others. Basic personal information: first name, surname, country of origin, nationality, language, occupation and field of study. Numbers 1–1000. Personal details, address, telephone number and e-mail address. Family and family relationships. Names of people, occupations and selected places. Interests, free time and basic everyday activities. Shopping, prices, food products and basic situations in a shop. Café and restaurant: ordering, asking about the price, asking for the bill. Elements of Polish culture and everyday life: basic information about Poland, Polish cities, the map of Poland and polite forms of address.</p> <p>Language functions in spoken and written communication: Understanding instructions and classroom language. Recognising sounds, letters, stress and basic intonation patterns. Understanding short dialogues about introductions, personal details, family, shopping, cafés and everyday life. Finding basic information in very simple texts: forms, business cards, short messages, menus, notices and simple dialogues. Understanding selected information from audio recordings and video materials used in the textbook. Identifying familiar words and phrases in simple texts.</p> <p>Listening and reading comprehension: Understanding simple instructions and classroom language. Recognising sounds, letters, stress and basic intonation patterns. Understanding short dialogues about introductions, personal details, family, shopping, cafés and everyday life. Finding basic information in very simple texts: forms, business cards, short messages, menus, notices and simple dialogues. Understanding selected information from audio recordings and video materials used in the textbook. Identifying familiar words and phrases in simple texts.</p> <p>Written production: Written tasks may include: a short self-introduction, personal information form, a description of one's family, a short message, a description of interests, a short dialogue in a café or shop, a simple e-mail.</p> <p>Grammar: The Polish alphabet, pronunciation of sounds which are difficult for English-speaking students, and word stress. Grammatical gender of nouns: masculine, feminine and neuter. Singular and plural forms at a basic level. Personal pronouns. The verb być and basic verbs in the present tense. The infinitive. Questions: kto?, co?, jak?, gdzie?, kiedy?, ile? The nominative and accusative cases in basic functions. Basic use of the genitive after numerals and in expressions of quantity. Basic adjectives and adverbs. Simple affirmative, interrogative and negative sentences. Grammatical gender, case inflection, word order and pronunciation.</p>                                                                                                                                                                                                                                                                                                                                           | Credit with a grade                                                    | 2    | written assignment, speaking task                                                                                                                                                       |
|                  | Foreign language II  | K_U09_K_U10_K_U11_K_K01             | <p>Polish: Topics and vocabulary: Daily routine, everyday activities, time, days of the week, times of day and basic time expressions. Making arrangements, suggesting meetings and free-time activities. Places in the city, institutions, means of transport, asking for directions and describing location. Shopping, services, restaurant, café, prices and payments. Travelling, railway station, airport, hotel, holidays and basic travel situations. Flat, house, rooms, furniture and describing a place of residence. Weather, seasons, clothes and basic expressions connected with how one feels. Health, parts of the body, visiting a doctor and simple symptoms. Everyday life in Poland: public transport, customs in shops, cafés and restaurants, basic administrative and academic situations.</p> <p>Language functions in spoken and written communication: Describing everyday activities and one's daily routine. Making arrangements, suggesting, accepting and refusing proposals. Asking about the time, date, place and directions. Locating people, objects and places. Describing one's place of residence. Shopping, asking about prices and availability of products. Booking accommodation, buying a ticket, asking about connections or directions. Talking about simple past events. Talking about future plans. Expressing basic needs, requests, agreement, refusal, satisfaction and dissatisfaction. Describing the weather and how one feels. Conducting simple conversations in everyday and academic situations.</p> <p>Listening and reading comprehension: Understanding dialogues about daily routine, meetings, shopping, travel, accommodation and health. Understanding short announcements, notices, timetables, housing advertisements, menus, forms and simple messages. Finding specific information: times, dates, prices, addresses, numbers, places, means of transport and organisational arrangements. Ordering information according to the sequence of events. Understanding simple recordings and video scenes relating to everyday life in Poland. Guessing the meaning of selected words from context.</p> <p>Written production: Written tasks may include: a daily routine, a message suggesting a meeting, a short organisational e-mail, a description of a flat or room, giving directions, a hotel booking, a short travel message, a description of the weather, a simple description of how one feels, a short account of a past event.</p> <p>Grammar: Revision of the present tense. The past tense at a basic level. The future tense and structures expressing plans. Basic verbs of motion: iść/chodzić, jechać/jedźcie. The locative case for describing location. The accusative case with verbs of motion and basic prepositions. The genitive case in expressions of quantity and after negation. The instrumental case in simple constructions, e.g. jestem studentem. Prepositions of place and direction: w, na, do, z, od, przy, obok, między, przed, za. Comparison of selected adjectives and adverbs. The imperative in basic expressions. Numbers, dates and time. Typical difficulties for English-speaking students: verbal aspect, directed and non-directed motion, and cases after prepositions</p>        | Credit with a grade                                                    | 2    | written assignment, speaking task                                                                                                                                                       |
|                  | Foreign language III | K_U09_K_U10_K_U11_K_K01             | <p>Polish:</p> <p>Topics and vocabulary: Daily routine, everyday activities, time, days of the week, times of day and basic time expressions. Making arrangements, suggesting meetings and free-time activities. Places in the city, institutions, means of transport, asking for directions and describing location. Shopping, services, restaurant, café, prices and payments. Travelling, railway station, airport, hotel, holidays and basic travel situations. Flat, house, rooms, furniture and describing a place of residence. Weather, seasons, clothes and basic expressions connected with how one feels. Health, parts of the body, visiting a doctor and simple symptoms. Everyday life in Poland: public transport, customs in shops, cafés and restaurants, basic administrative and academic situations.</p> <p>Language functions in spoken and written communication: Describing everyday activities and one's daily routine. Making arrangements, suggesting, accepting and refusing proposals. Asking about the time, date, place and directions. Locating people, objects and places. Describing one's place of residence. Shopping, asking about prices and availability of products. Booking accommodation, buying a ticket, asking about connections or directions. Talking about simple past events. Talking about future plans. Expressing basic needs, requests, agreement, refusal, satisfaction and dissatisfaction. Describing the weather and how one feels. Conducting simple conversations in everyday and academic situations.</p> <p>Listening and reading comprehension: Understanding dialogues about daily routine, meetings, shopping, travel, accommodation and health. Understanding short announcements, notices, timetables, housing advertisements, menus, forms and simple messages. Finding specific information: times, dates, prices, addresses, numbers, places, means of transport and organisational arrangements. Ordering information according to the sequence of events. Understanding simple recordings and video scenes relating to everyday life in Poland. Guessing the meaning of selected words from context.</p> <p>Written production: Written tasks may include: a daily routine, a message suggesting a meeting, a short organisational e-mail, a description of a flat or room, giving directions, a hotel booking, a short travel message, a description of the weather, a simple description of how one feels, a short account of a past event.</p> <p>Grammar: Revision of the present tense. The past tense at a basic level. The future tense and structures expressing plans. Basic verbs of motion: iść/chodzić, jechać/jedźcie. The locative case for describing location. The accusative case with verbs of motion and basic prepositions. The genitive case in expressions of quantity and after negation. The instrumental case in simple constructions, e.g. jestem studentem. Prepositions of place and direction: w, na, do, z, od, przy, obok, między, przed, za. Comparison of selected adjectives and adverbs. The imperative in basic expressions. Numbers, dates and time. Typical difficulties for English-speaking students: verbal aspect, directed and non-directed motion, and cases after prepositions</p> | Credit with a grade                                                    | 2    | written assignment, speaking task                                                                                                                                                       |
|                  | Specialized language | K_U09_K_U10_K_U11_K_K01             | <p>Specialized Polish language</p> <p>Jobs: job titles; main roles of managers; Maslow's hierarchy of needs; marketing orientation; negotiations</p> <p>Economics: basic economic definitions; business performance; financial market; market changes.</p> <p>Economy and entrepreneurship: business sectors; economic indicators; types of companies; setting up a new business.</p> <p>Production: basic production-related terms; production companies and their activities; factors influencing production; the production process</p> <p>Accounting and taxes: basic accounting terminology; basic terms related to financial statements; balance sheet; documents and accounting records; auditor's report; taxes; tax-related words and expressions; costs; basic mathematical terms</p> <p>Specialized English language</p> <p>Jobs: job titles; main roles of managers; Maslow's hierarchy of needs; marketing orientation; negotiations</p> <p>Economics: basic economic definitions; business performance; financial market; market changes.</p> <p>Economy and entrepreneurship: business sectors; economic indicators; types of companies; setting up a new business.</p> <p>Production: basic production-related terms; production companies and their activities; factors influencing production; the production process</p> <p>Accounting and taxes: basic accounting terminology; basic terms related to financial statements; balance sheet; documents and accounting records; auditor's report; taxes; tax-related words and expressions; costs; basic mathematical terms</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Passing                                                                | 2    | Tests and scored tasks                                                                                                                                                                  |
|                  | Mathematics          | K_U06_K_U01_K_U03_K_U07_K_U11_K_K01 | <p><b>1st semester:</b> Matrix (Matrix definition, notations, dimensions, operations, feasibility criteria, properties of operations. Row echelon form – definition, structure. Matrix usefulness in economic and social life. Operations on matrices, feasibility criteria, properties of operations; Row echelon form – getting the matrix to the row echelon form. Matrix usefulness in economic and social life – examples). Determinants: (Determination of matrix determinant, notation, criteria of existence, methods of calculation, properties of determinants. Invertible matrix – determination, notation, properties, methods of determination; Calculation of matrix determinants, criteria of existence, methods of calculation, properties of determinants; Calculation of Invertible matrix). Rank (Definition, notation, determination; Row echelon form rank) Linear equation systems (Matrix notation of linear equation system; Cramer's Rule – Kramer systems; Rouché-Capelli Theorem – consistent, inconsistent and contradictory systems; Solving Cramer linear equation systems – Cramer formula method, invertible matrix method, Gaussian elimination method; Input-output model). Sequences (Definition, notation; Sequences in economics – compound interest, simple and compound discount, nominal and effective interest rate, flow of money; Limit of a sequence – definition, interpretation, properties, calculation methods; The number <math>e</math> – definition, use as a base of exponent, as a basis of logarithm; calculation of limits of sequences using the number <math>e</math>, use as a base of exponent and as a basis of logarithm). <b>2nd semester:</b> The function of one variable (Functions occurring in economics – polynomials, exponential function, Törnquist function; Pareto distribution, logistic function – formulas, graphs, reading of graphs, properties; Limit of a function at a point; Continuity of function – definition, geometric interpretation). Derivative of a function of one variable (Determination, notation, geometric interpretation, criteria of existence. Elements of marginal accounting – marginal value, flexibility; Properties of a derivative – calculation of derivatives, derivative of a composed function; Use of a derivative to test monotony of a function; Local extremum of a function – determination, use of a derivative to determine the local extremum of a function; Global extremum of a function – definition, determination). Single indefinite integral (Definition, notation, properties; Methods of calculation of indefinite integral – method of substitution, method of integration by parts, integration of a rational function). Single definite integral: (Definition, notation, criteria of existence, properties; Methods of calculation; Use of single definite integral in economics – average value in economics, resource, profit from operation). Functions of many variables (definition, notation, Cartesian product, geometric interpretation; Partial derivatives – method of calculation; Extremum of functions of many variables – local and relative extremum). Double integral – calculation method, interpretation.</p>                                     | Credit with a grade / Credit with a grade / Exam / Credit with a grade | 11,5 | Written works, tests, participation in discussions, analysis of information on a given subject, performance of individual or group tasks, observation, performance of group tasks, exam |

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| Basic subjects                           | Social Economy                   | K_W01_K_W03_K_W04_K_W05_K_W07_K_U01_K_U04_K_U07_K_K01_K_K04_K_K05 | <p>Social Economy</p> <p>The essence and origins of the social economy.</p> <p>The place of the social economy within a market economy system.</p> <p>The social economy sector in Poland and the European Union.</p> <p>Social economy entities: associations, foundations, social cooperatives, social integration centres and clubs, social enterprises.</p> <p>The role of the social economy in preventing social and professional exclusion.</p> <p>Social responsibility of organizations and the creation of social value.</p> <p>Financing of social economy entities: public funds, European funds, paid activities, and business operations.</p> <p>Management of social organizations and social enterprises.</p> <p>Local partnerships and inter-sector cooperation.</p> <p>Measuring the social and economic impact of social organizations' activities.</p> <p>Social innovation and social entrepreneurship.</p> <p>Good practices in the social economy in Poland and worldwide.</p> <p>Case study analysis of social enterprise functioning.</p> <p>Team project: developing a concept for a social economy initiative</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Credit with a grade        | 1,5 | Test, written assignments, analysis of a selected problem, completing tasks individually or in groups, discussion. |
|                                          | Civil law                        | K_W05_K_W07_K_U04_K_K02                                           | <p>The concept of civil law (Place of civil law in the branch of law. Basic principles of civil law and their evolution. Systematics of civil law.</p> <p>Sources of Polish civil law; Use of civil law, its interpretation and issue of analogy (Concept and elements of civil-law relationship; Types of civil-law relations; Subjective right and its essence; Types of subjective rights, their acquisition and loss, exercise of subjective rights; Collisions and overlapping of subjective rights and their settlement); Natural and legal persons in the civil law system (Legal capacity of natural persons, its beginning and end; Capacity to enter into legal transactions and premises affecting its scope; Civil and personal status of a natural person; Personal rights of a natural person and their protection; Concept of a legal person and its types); Concept of a legal transaction and types of legal transactions (Content of legal transactions; Types of legal transactions, Elements of a legal transaction; Concept of a thing, component and ownership; Declaration of intent; Form of a legal transaction); Concept of a thing, component and ownership (Types of things: Immovable property and its types; Business, its definition and a farm; Property and its protection); Rights in rem (Ownership and limitations; Land and Mortgage Registers; Servitude; Mortgage; Pledge; Prescriptive acquisition and non-use; Co-ownership); Agreement ad a legal transaction (Elements of agreements; Types of agreements; Parties to an agreements, Power of attorney; Down payment vs earnest money); Selected civil law agreements and their characteristics (Sales agreements; Long term lease agreement; Lease agreement; Loan agreement; Forwarding contract; Donation agreement; Lending agreement)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Exam                       | 2   | Test                                                                                                               |
| Major-Specific and Area-Specific Courses |                                  |                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                            |     |                                                                                                                    |
| Major-specific (specialization) subjects | Economic analysis                | K_W02_K_W06_K_W10_K_U02_K_U02_K_U03_K_U07_K_K01                   | Economic analysis methods; Analysis of balance sheet and profit and loss account dynamics and structure; Cash flow analysis; Financial liquidity and debt analysis; Asset management efficiency analysis; Profitability analysis; Synthetic assessment of the financial result; Factor analysis of the financial result; Du Pont Model; Fixed asset management analysis; Break-even and operational support analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Exam / Credit with a grade | 5   | Test, performance of tasks individually, written works, homework, case study                                       |
|                                          | Start-up in business             | K_W02_K_W04_K_W05_K_W08_K_K04_K_K05                               | <p>Introduction to artificial intelligence – basic concepts and the history of its development;</p> <p>Practical applications of AI: marketing, sales, logistics, and human resources;</p> <p>AI tools and platforms in business;</p> <p>AI and managerial decision-making – decision support systems;</p> <p>The future of AI in economics.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Credit with a grade        | 2   | Written assignment; Participation in discussion; Self-assessment.                                                  |
|                                          | International economic relations | K_W02_K_W03_K_W08_K_K01                                           | <p>The scope and concept of international economic relations; International economic relationship as a science; Contemporary international trade; Classical and neoclassical international trade theories; Size, structure, dynamics of modern international trade; Importance of equipment (for production factors) (Heckscher–Ohlin theorem; Factor price alignment; Stolper–Samuelson theorem); Alternative theories of international trade (Economies of scale versus international trade; Concepts of imitation lag, product life cycle; Concept of overlapping demand); Effects of economic growth on international trade; Terms of trade; Sources of economic growth; International capital flows; International workforce flows; Concept, mechanism of operation and economic effects of customs duties; Effects and mechanisms of export restrictions and other non-tariff barriers; Free trade and protectionism (Traditional and contemporary arguments for protectionism; International trade and environmental protection); International trade policy (International cartels; Concept, mechanism of formation and effects of economic integration); Concept and structure and balance of payments; Concept of exchange rate and foreign exchange market; Mechanism of operation of the foreign exchange market; Types of transactions in the international foreign exchange market; Factors determining the level of the exchange rate; Purchasing power parity; Price, income and monetary adjustment mechanisms; Causes, tools and constraints of adjustment policies; History of the international monetary system; Contemporary monetary system; Debt crisis and possible solutions (Scale of the debt problem; Causes of global debt; Threats of debt; Possible solutions to the debt crisis); Globalisation - concept, benefits and threats;</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Exam                       | 2   | Case study analysis individually and in groups; Test                                                               |
|                                          | AI in business                   | K_W06_K_W09_K_U06_K_U07_K_K01                                     | Introduction to artificial intelligence - basic concepts and history of development; Practical applications of AI: marketing, sales, logistics, HR; AI tools and platforms in business; AI and managerial decisions - decision support systems; Future of AI in economics;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Credit with a great        | 3   | Test, discussion                                                                                                   |
|                                          | Econometrics                     | K_W04_K_W06_K_U02_K_U03_K_U06_K_K01_K_K02                         | <p>Subject of econometrics. Basic econometric concepts (Subject of econometrics, links with other economic sciences. Causal relationships in economics. Econometric model concept. Classification of econometric models. Records: in the form of a regression equation and a matrix linear econometric model, exponent and exponential models.); Stages of econometric model construction (Selection of explanatory variables for the model. A priori and a posteriori methods. Selection of the analytical form of the model); Linear single equation econometric model (The classical least squares method as a tool for estimating structural parameters and stochastic structure parameters of a model. Consequences of failure to meet the Classical least squares method assumptions); Elements of statistical and economic model verification (Selected model matching indicators and statistical tests); Forecasting on the basis of a single equation econometric model (Classic econometric prediction. Forecasting based on a linear trend model); essence, purpose, subject of operational research (Line programming issue. Primary and dual programme); Interpretation of decision variables and model parameters. Economic applications); Graphic method in solving simple PL issues; essence and steps of the simplex method;</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Exam / Credit with a grade | 4   | Test, exam to obtain credit                                                                                        |
|                                          | Fundamentals of Management       | K_W01_K_W03_K_W04_K_W10_K_U05_K_U06_K_U09_K_K03_K_K04             | <p>Evolution of views on management (Views of representatives of the classic method; Views of representatives of the behavioural method; Development of the quantitative method; Contemporary views on management; Management concepts and methods); Features and meaning of an organisation (Objectives of an organisation; Environment and resources of an organisation; Measures and criteria for assessing the effectiveness of activities; Analysis of the micro and macro environment of an organisation); Planning as a managerial function (Operational and strategic planning; Planning process; Types and features of plans; Plan development procedure; Strategies for managing organisations, SWOT analysis); Organising as a managerial function (Elements of organisation; Determinants of organisation; Typology of organisational structures; Delegation of managerial powers; Organisational procedures; Organisation of one's own work, Analysis of a selected organisational structure); Managerial decision-making process (Concept of decision, elements of decision-making; Typology of decisions; Rationality of managerial decisions; Cause and effect analysis; Information and communication process in decision-making; Decision-making techniques; Information technologies to support decisions in management); Motivation as a managerial function (Overview of motivation theories - needs theories, process theories; Wage and non-wage motivation factors); Management styles (Types of management styles - classical and situational approaches; Flexibility of management styles; Organisation of the manager's own work); Controlling as a managerial function (Process of controlling; Importance of controlling; Types of controlling; Control procedures - operational and strategic control; Relationship of planning and controlling); Organisational culture (Concept of organisational culture; Factors shaping culture; Levels of organisational culture; Types of culture and how to identify them)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Exam / Credit with a grade | 3   | Test, exam, case study, discussion, managerial tests, project development, teacher evaluation                      |
|                                          | Statistics                       | K_W01_K_U01_K_U02_K_U03_K_U07_K_K01                               | <p>Concept and method of statistics, sources of statistical data; empirical distribution of one variable and its characteristics (measurements of central tendency; measurements of dispersion; measurements of asymmetry; measurements of concentration); Time series and analysis of phenomenon dynamics (individual and aggregate indices, geometric mean, trend and seasonality); Causal and correlation relations; Analysis of correlation of two variables (correlation table; Chi-squared test, correlation coefficient; Chi-prov, Vole, Pearson, Spearman; Construction of frequency distributions; Measures of central tendency; Measures of dispersion; Measures of asymmetry and concentration; Time series and analysis of phenomena dynamics; Analysis of interdependence of random variables</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Exam / Credit with a grade | 4,5 | Test; Exam; Observation                                                                                            |
|                                          | Financial accounting             | K_W01_K_W03_K_W07_K_W10_K_U01_K_U02_K_U09_K_K04                   | <p>Fundamentals of Finance</p> <p>The concept and general characteristics of finance; functions of finance.</p> <p>Characteristics of the financial system; types of financial systems.</p> <p>Finance in relation to other academic disciplines.</p> <p>Characteristics of modern money.</p> <p>Basis of banking: functions of the central bank and commercial banks.</p> <p>Social security system and pension system in Poland.</p> <p>The concept of the financial market; basics of its functioning and segments.</p> <p>Fiscal policy.</p> <p>Corporate finance – introduction.</p> <p>Measures of assessing the financial condition of banks.</p> <p>Social insurance – ZUS settlement documentation, e-government, examples of settlements.</p> <p>Types of taxes and tax declarations – examples.</p> <p>Public Finance</p> <p>Principles of state budget construction.</p> <p>Elements of the budget.</p> <p>Sources of state budget revenue.</p> <p>Sources of local government revenue.</p> <p>Types of state budget expenditures.</p> <p>Types of local government expenditures.</p> <p>Analysis of a sample budget of an administrative unit.</p> <p>Differences between state finances and local government budgets.</p> <p>Classification of public revenues and expenditures.</p> <p>Financial Markets</p> <p>Classification of financial markets.</p> <p>Financial instruments and their valuation.</p> <p>Participants in financial markets.</p> <p>Forms of financing (loans, leasing, factoring, securities).</p> <p>Market segments: money, foreign exchange, pension, insurance, investment funds, capital markets.</p> <p>Capital market models for valuing instrument profitability.</p> <p>Portfolio management methods.</p> <p>Measures of stock market efficiency.</p> <p>Fundamentals of Corporate Finance</p> <p>Corporate financial management (financial decisions, investment decisions, capital structure and cost of capital, working capital management, financing innovation activities, control's ownership in a company).</p> <p>Trade credit policy (management of receivables and payables, short-term financing, financial responsibility in contractual relations).</p> <p>Financial modelling (decision-support models for investments, financial planning models) – introduction to budgeting.</p> <p>Tax systems (business and household responses to taxation, corporate tax strategies, customs duties and customs systems, tax systems and harmonisation).</p> <p>Revenue and cost budgeting.</p> <p>Financial planning based on balance sheet, income statement, and cash flow statement.</p> <p>KPI analysis.</p> <p>Break-even point (BEP) calculation.</p> <p>Balanced Scorecard.</p> | Exam / Credit with a grade | 5   | Test, written assignments, midterm exam (colloquium), discussion.                                                  |

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| Module: Business Operations                                 | Marketing                                                | K_W01_K_W03_K_W04_K_W10_K_U02_K_U07_K_U12_K_K04             | The concept and elements of marketing (Marketing definition; Marketing concept – mix; Marketing as a social and management process; Marketing functions; Traditional and modern marketing); Market segmentation and typology (Buyer behaviour, Purchase process, Segments and market niches; Segmentation criteria and target market selection); Product strategy (Product concept; Classification of products; Structure of a product; Product life cycle; Product portfolio management; Brand; Packaging); Distribution strategy (Concept and functions of distribution; Types and principles of shaping distribution channels; Physical distribution of goods; Decisions made in distribution channels); Pricing strategy (Price decision components; Price calculation methods; Price policy; Possibility to use prices at active marketing factors); Promotion strategy (Promotion – mix; Advertising; Personal selling; Sales promotions; Public relations; Rules for creating a promotional campaign); Partner marketing (Basic principles of partner marketing; Establishing and maintaining lasting relations with clients and other participant of the environment; CRM strategies); Identification of the organisation's marketing orientation; Segmentation - identifying segments and market niches; Marketing programme analysis - product concept of price, distribution, promotion, service marketing.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Exam / Credit with a grade                | 4   | Test; analysis of information on a given subject, case study, participation in discussions                                                                           |
|                                                             | Fundamentals of microeconomics                           | K_W01_K_W02_K_W03_K_U01_K_U02_K_U07_K_U09_K_K01             | Supply, demand: flexibility and application (Price flexibility of supply and demand; Application of price flexibility in important economic areas); Consumer demand and behaviour (Selection and usability theory, Substitute and income effect, Production and organisation, Production and marginal productivity theory); Analysis of production costs; Analysis of perfectly competitive markets; Imperfect competition and monopoly; Imperfect competition and oligopoly; Factors of production: land, capital and labour; Calculation of demand and supply flexibility; Optimum choice of a consumer; Importance of the consumer's budget constraints; Types and structure of costs in business and the business's total cost function; Calculation of marginal quantities (marginal productivity of capital, marginal productivity of labor, marginal product of labor, marginal product of capital); Determination of the business's cost and financial result and determination of the business's balance; Operation of the business under perfect competition and under monopoly conditions; The nature of market imperfections                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Exam / Credit with a grade                | 5   | Test, written works, analysis of a selected problem, performance of tasks individually or in groups, discussion                                                      |
|                                                             | Fundamentals of macroeconomics                           | K_W01_K_W02_K_W03_K_W04_K_W06_K_W08_K_U01_K_U02_K_U07_K_K01 | Introduction to macroeconomics (Resources, streams, aggregation rules; Circular economic traffic model; Economic drivers); Basic categories and macro concepts (National economy, Global supply and global demand, Categories: GDP, GNI, NNP, national income calculation method, Level of development, social welfare); Determinants of national income (Term and mechanism of equilibrium, Function of consumption and savings, Equilibrium in the simplified economic model; Equivalence of savings and planned investments, Multiplier); Equilibrium in the developed economic model; State budget (Term and functions of the state budget; Taxes as state budget revenue; State budget expenditure; Balanced budget multiplier; Automatic fiscal stabilisers; State budget deficit and public debt); Money (Origins of money and its functions; Factors determining the demand for money; Motives for keeping money; Money resources; Cost of having money); Money and credit system (Functions of banks; Money creation by banks; Money multiplier; Central bank; concept and functions); Instruments to control the money supply; Commercial banks and the money supply; Factors influencing the money supply; Balance in the money market; Unemployment (labour market, demand and supply in the labour market, balance in the labour market; Unemployment types (voluntary, forced, natural, friction and structural, classical and cyclical); Unemployment causes; Social and individual costs and benefits of unemployment; Unemployment in Poland and selected countries; Tackling unemployment; State impact on the labour market); Inflation (Concept of inflation, measuring inflation; Causes of inflation - cost, demand and monetary; Socio-economic effects of inflation; Inflation and unemployment, Short-Run Phillips Curve; Long-Run Phillips Curve; Ways to tackle inflation); Economic growth (Concept of growth, growth rate; Single-factor and multi-factor growth models; Technical advancement); Business cycle (Definition of business cycle; Types of cyclical fluctuations; Theories of cyclical fluctuations); IS - LM model (Commodity and money market equilibrium in a closed economy; Fiscal and monetary policy in a closed economy) | Exam / Credit with a grade                | 7   | Test, written works, analysis of a selected problem, performance of tasks individually or in groups, discussion                                                      |
|                                                             | Business plan                                            | K_U01_K_U05_K_U08_K_U09_K_K04                               | Objective, scope and levels of the business plan; Defining the business plan objective; Determining the core business plan segments; Determining the sources of financing; Determining the technological and demographic market environment; Forecasting revenues, costs and results of the business plan project; Controlling assumptions for the implementation of the business project (cost controlling, revenue controlling, result controlling, innovation intentions)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Credit with a grade                       | 2,5 | Preparation of the business plan                                                                                                                                     |
|                                                             | Fundamentals of logistics                                | K_W04_K_W06_K_W10_K_U01_K_U02_K_K01                         | Basic concepts; Logistic processes; Systematic approach to logistics; Logistics system in the cycle of rational operation; Logistics infrastructure of a business; Material needs planning; Material stream optimisation methods; Logistic costs; Outline of logistics systems modelling methodology; Logistic handling of workstations; Logistics system tasks; Logistics planning; Defining logistics system requirements; Supply chain modelling; Information on logistics management; Computerisation of logistics processes; Automatic identification in logistics; Use of IT technologies in logistics relations management; Transport as a logistic process                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Exam / Credit with a grade                | 4   | Test, exam, case study, analysis of information on a given subject; performance of tasks individually or in groups                                                   |
|                                                             | Consumer behaviour                                       | K_W05_K_W10_K_U05_K_U07_K_U12_K_K03_K_K04                   | Basic issues related to consumption, consumer, consumer behaviour, functions and regularity of consumption development; Classification of consumption; Consumption in economic theory; Characteristics of selected models of consumer behaviour on the international market; Measures of consumption measurement and their classification; Rationality and irrationality of consumer behaviour; Role of international marketing research in determining consumer behaviour and attitudes in the global context; Segmentation analysis on the international market, segmentation criteria; Trends in consumer behaviour on international markets; Consumerism and consumer education                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Credit with a grade / Credit with a grade | 3,5 | Test                                                                                                                                                                 |
|                                                             | Communication and Negotiation in Business                | K_U05_K_U07_K_U12_K_K01                                     | Negotiations - introductory information; Game theory in negotiations; Elements of the communication process in negotiation; Verbal and non-verbal communication; Manipulations in negotiations and interpersonal interaction mechanisms; Negotiation styles and strategies; Negotiation techniques; Negotiation stages; Members of the negotiation group and their roles in the negotiation process; Features of a good negotiator vs. the myth of the good negotiator; simulations and educational games - negotiator training                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Credit with a grade                       | 3   | Oral statement                                                                                                                                                       |
|                                                             | Strategic and operational management                     | K_W02_K_W04_K_W06_K_U01                                     | Fundamentals of strategic management - definitions and process; Strategic objectives its vision and missions; Making an analysis of the environment; Strategic risk analysis; Models of strategy formulation; Strategy implementation its control and changes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Credit with a grade / Credit with a grade | 3,5 | Test, presentation, project                                                                                                                                          |
|                                                             | Business strategies                                      | K_W02_K_W03_K_W06_K_U02_K_U04_K_U09_K_K01                   | Essence and goals of strategy in business; SWOT strategic analysis models; Strategic analysis models; Enterprise strategies; Innovation; Change management; Strategy simulations; Strategy simulations                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Credit with a grade / Credit with a grade | 4,5 | Written work, tests, oral statements (including substantive contributions to discussions, debates, simulations); business simulations, problem solving               |
|                                                             | Psychology in business                                   | K_W03_K_W05_K_U05_K_K03                                     | Introduction to the psychology of organization and work; Motivation and job satisfaction; Psychology of interpersonal communication; Group processes - team dynamics, group roles; Leadership and social influence; Stress management and employee well-being; Perception, attitudes and decision-making; Consumer psychology and purchasing behavior                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Credit with a grade                       | 2   | Test, presentation, project                                                                                                                                          |
| Module: Aviation                                            | Brand management                                         | K_W02_K_W03_K_W05_K_W10_K_U02_K_U04_K_U05_K_K01_K_K04       | Strategies in the brand management process; Brand value; Building a strong brand: four steps in building a brand; Brand positioning; Identifying and establishing a brand position: selecting brand elements in building brand value; Criteria for selecting brand elements; Designing marketing programs in building brand value;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Credit with a grade / Credit with a grade | 4   | Project, test                                                                                                                                                        |
|                                                             | Business models of airlines                              | K_W02_K_W10_K_U01_K_U02_K_U03_K_K04                         | Characteristics of the air transport market. Airline business models (traditional, low-cost, charter). Revenue sources and cost structure of airlines. Competitive strategies in the airline market.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Credit with a grade / Credit with a grade | 3,5 | knowledge test, case study analysis, group presentation                                                                                                              |
|                                                             | The economics of air transport                           | K_W02_K_W04_K_W08_K_U01_K_U03_K_U07_K_K02                   | Fundamentals of air transport economics. Supply and demand in the air transport market. Operating costs of airline companies. Impact of air transport on economic development.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Credit with a grade                       | 2,5 | test or colloquium, analysis of economic data, individual project.                                                                                                   |
|                                                             | Aviation Law                                             | K_W07_K_W09_K_U04_K_U05_K_U09_K_K03                         | Sources of national and international aviation law. Rights and obligations of passengers and carriers. Civil liability in aviation. Legal aspects of aviation safety                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Credit with a grade                       | 2   | written exam, case study analysis, class participation.                                                                                                              |
|                                                             | Passenger Services Management in Aviation                | K_W03_K_W05_K_U05_K_U06_K_U08_K_U12_K_K01                   | Organization of the passenger service process. Customer service quality standards. IT systems supporting passenger handling. Crisis management and complaint handling                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Exam                                      | 2,5 | practical exercises, group project, observation of group work                                                                                                        |
|                                                             | Airline services marketing                               | K_W02_K_W05_K_U02_K_U03_K_U09_K_U11_K_K04                   | Specifics of airline marketing. Consumer behavior in the aviation market. Promotion and marketing communication tools. Airline brand building.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Credit with a grade                       | 3   | marketing project, presentation, knowledge test                                                                                                                      |
|                                                             | Aviation in the Global market and Regulatory Environment | K_W04_K_W07_K_W08_K_U02_K_U07_K_U09_K_K05                   | Globalization of the aviation market. International aviation organizations and their role. Regulations affecting the aviation sector. Current challenges and trends in aviation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Credit with a grade                       | 1,5 | report/essay, presentation, knowledge test                                                                                                                           |
| Module: Logistics                                           | International logistics                                  | K_W02_K_W04_K_U01_K_U05_K_K01_K_K04                         | transport in international trade - basic issues; characteristics of transport modes; transport documents; costs in transport branches; transport markets; forwarding in international transport; logistics centres; logistics services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Credit with a grade / Credit with a grade | 4,5 | Test, project                                                                                                                                                        |
| Module: Enterprises in International Markets                | Common European market                                   | K_W03_K_W04_K_K01                                           | Historical aspects of the common market in Europe; geographic aspects of the common European market; political aspects of the common European market; common services market; common labour market; common traditional and electronic media market                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Credit with a grade                       | 2   | Round table discussion                                                                                                                                               |
|                                                             | Cross-cultural management                                | K_W03_K_W04_K_W05_K_U03_K_K02_K_K02                         | Intercultural Communication; Types of Management in Cultures; Intercultural Negotiation; Influence of Culture on Work Organization; Motivating Employees; Developing Manager's Intercultural Competencies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Credit with a grade                       | 2   | Test, presentation                                                                                                                                                   |
| Module: Law                                                 | Business Law                                             | K_W03_K_W06_K_K02_K_K03                                     | Introduction to the Legal System; Legal Foundations of Doing Business. The Concept of an Entrepreneur and Business Activity; Controlling in a Company; Optimization in a Company; The Essence of Internal Policy Systems in a Company; IT in Business Management; Intellectual Property Protection in a Company.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Credit with a grade                       | 3   | written assignments, tests, oral presentations (including substantive contributions to discussions, debates, and simulations); business simulations, problem-solving |
| Module: Practical classes increasing skills and competences | Elective classes I-II                                    | K_W03_K_W05_K_U01_K_U02_K_U05_K_U11_K_K01                   | Elective classes are chosen by the student in a specific semester in accordance with the curriculum. This class, depending on the topic chosen by the student, aims to expand their competences during the workshops. The proposed topics of classes concern general economic issues or specific issues related to a specific area of study. Proposals are made after consulting with students their areas of interest during the first year of studying.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Credit with a grade                       | 2,5 | Performing tasks individually or in groups, participating in discussions                                                                                             |
|                                                             | Elective classes III                                     | K_W03_K_W05_K_U01_K_U02_K_U05_K_U11_K_K01                   | Elective classes are chosen by the student in a specific semester in accordance with the curriculum. This class, depending on the topic chosen by the student, aims to expand their competences during the workshops. The proposed topics of classes concern general economic issues or specific issues related to a specific area of study. Proposals are made after consulting with students their areas of interest during the first year of studying.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Credit with a grade                       | 4   | Performing tasks individually or in groups                                                                                                                           |
|                                                             | Expert classes I                                         | K_W02_K_W03_K_U02_K_U05_K_U11_K_K02                         | Expert classes are classes conducted by experts-practitioners. Topics of classes are assigned based on current economic events, trends in management and finance sciences.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2o                                        | 2   | Performing tasks individually or in groups, participating in discussions                                                                                             |
|                                                             | Expert classes II                                        | K_W02_K_W03_K_U02_K_U05_K_U11_K_K02                         | Expert classes are classes conducted by experts-practitioners. Topics of classes are assigned based on current economic events, trends in management and finance sciences.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2o                                        | 2,5 | Performing tasks individually or in groups, participating in discussions                                                                                             |

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|                 | Spreadsheets program                    | K_U03, K_U06, K_K01                                                                              | Principles of entering and editing data in the spreadsheet, creating formulas, basic functions of data aggregation; Use and application of spreadsheets in the practice of an economist - tasks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Zo                  | 2    | Performing tasks individually                            |
| Internships     | Internship "Employee competencies"      | K_W03, K_W05, K_W07, K_U04, K_U05, K_U07, K_U08, K_U12, K_K01, K_K03                             | OHS, Company structure, Electropoint example, Communication in the company, Social competence; CV; Interview; Internship according to the guidelines of the internship program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Credit              | 11   | Tests, Internship Form, Questionnaires                   |
|                 | Industry internship                     | K_W03, K_W07, K_U01, K_U02, K_U05, K_U08, K_U09, K_U12, K_K03, K_K05                             | Completion of the internship in accordance with the guidelines in the internship programme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Credit              | 21,5 | Internship Form, Questionnaires, Project tasks           |
| Diploma process | Preparation for the diploma examination | K_W06, K_W09, K_W10, K_U01, K_U02, K_U03, K_U05, K_U07, K_U09, K_U11, K_K01, K_K05               | 1. Discussion of formal and substantive requirements to be met by the diploma thesis, including guidelines and recommendations developed for student graduating from WSG in Bydgoszcz.<br>2. Drawing attention to the criteria taken into account in the evaluation of the thesis, such as: compliance of the subject with the content; layout and structure of the thesis, completeness of theses; methodological correctness (achieving objectives, verification of hypotheses, logical manner of reasoning and formulating conclusions); elements of novelty; selection and use of literature and other sources and ethical aspects related thereto; formal side: linguistic correctness, writing technique, tables, charts, footnotes, lists, etc.<br>3. Defining the schedule of works related to preparation of the methodological concept of research and work plan and implementation of subsequent stages of preparation of the parts of the thesis (theoretical and research).<br>4. Defining methodological assumptions: subject, problem and time scope of the research, research objectives and hypotheses, as well as research methods, nature of data sources, etc..<br>5. Discussing methodological assumptions in relation to the planned works. Principles for building the structure of a thesis, its components and sequence, division into chapters, sub-chapters and clauses – in general and for specific theses.<br>6. Developing draft work plans.<br>7. Rules for collecting research materials and studying literature. Exploring, selecting and critically analysing materials for suitability to achieve research objectives.<br>8. Collecting and organising information in problem groups in accordance with the adopted methodological assumptions (scopes) and work plan.<br>9. Developing theoretical part of the works and presentation of conclusions resulting from them<br>10. Verification and detailing of the work plan after the first phase of the literature study and carrying out the planned own research.<br>11. Reminding of the basic groups of research methods and techniques.<br>12. Development and presentation of research results and conclusions resulting therefrom; discussion and possible correction of substantive and formal errors.<br>13. Development of the research part of the thesis. | Credit with a grade | 2    | Submitting and discussing the thesis plan, Discussion    |
|                 | Diploma project                         | K_W02, K_W03, K_W04, K_W09, K_U01, K_U02, K_U03, K_U05, K_U07, K_U09, K_K01, K_K02, K_K03, K_K04 | Principles of academic writing (selection and formulation of the topic of the thesis, linguistic correctness and style of the paper); Formal and substantive content of the thesis (analysis of the literature on the research problem, analysis of the existing state of knowledge on the topic, methodological basis of own research); Planning the schedule for writing the thesis; The process of writing an academic thesis; Verification of the thesis in terms of editorial and technical requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Credit with a grade | 4    | Submitting and obtaining approval of the diploma project |