



Subject card

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| Subject name and code | Essentials of accounting, PG_00045300 | | | | | | |
| Field of study | Data Engineering | | | | | | |
| Date of commencement of studies | October 2025 | | Academic year of realisation of subject | | 2026/2027 | | |
| Education level | first-cycle studies | | Subject group | | Obligatory subject group in the field of study Subject group related to scientific research in the field of study | | |
| Mode of study | Full-time studies | | Mode of delivery | | at the university | | |
| Year of study | 2 | | Language of instruction | | English | | |
| Semester of study | 3 | | ECTS credits | | 3.0 | | |
| Learning profile | general academic profile | | Assessment form | | assessment | | |
| Conducting unit | Department of Management -> Faculty of Management and Economics | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr Jarosław Ziętański | | | | |
| | Teachers | | dr Jarosław Ziętański | | | | |
| Lesson types and methods of instruction | Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
| | Number of study hours | 15.0 | 30.0 | 0.0 | 0.0 | 0.0 | 45 |
| | E-learning hours included: 0.0 | | | | | | |
| Learning activity and number of study hours | Learning activity | Participation in didactic classes included in study plan | | Participation in consultation hours | | Self-study | SUM |
| | Number of study hours | 45 | | 6.0 | | 24.0 | 75 |
| Subject objectives | Students gain knowledge on the different categories of financial statements. They acquire knowledge on the nature of assets, equity and liabilities of a company. They study and discuss basic business transactions. Acquisition of skills to understand financial statements | | | | | | |
| Learning outcomes | Course outcome | | Subject outcome | | Method of verification | | |
| | [K6_K02] makes competent and ethical decisions to create and maintain economic, social and environmental values | | Student understands the need for self-improvement by updating knowledge on current tax law | | [SK4] Assessment of communication skills, including language correctness | | |
| | [K6_U01] analyzes and evaluates complex processes in the context of their improvement possibilities, using various methods, including analytical and simulation | | The student is able to analyze and evaluate complex accounting processes, such as managing assets, liabilities, equity, revenues, and expenses. They use various methods to discuss the assumptions and structure of the balance sheet and income statement | | [SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject | | |
| | [K6_W01] identifies conditioning of the processes occurring in the analyzed systems and selects methods for solving them, using the accumulated knowledge and taking into account the mutual relations between the analyzed phenomena | | Student identifies the conditions of accounting processes, such as matching, accrual, and prudence, and selects appropriate methods to address them. They understand generally accepted accounting principles, can apply them in practice, and analyze their interrelations in the context of ensuring a 'true and fair view' in financial statements. | | [SW2] Assessment of knowledge contained in presentation | | |

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| Subject contents | 1) Financial accounting, 2) Sources of data necessary to run a business in modern environment, 3) The fundamental accounting principles: accruals, matching, and prudence, 5) Functions of book-keeping vs. accounting, 6) The working of different types of posting accounts: nominal accounts, subledger accounts, contra-asset accounts, control accounts, 7) The notions of assets, liabilities, capital, revenue, and expense accounts, 8) The basic accounting equation, 9) The role and workings of general ledger, auxiliary ledgers, double-entry book-keeping, trial balance, 10) The role and workings of opening and closing balances of accounts, 11) The main captions of balance sheet: non-current assets, current assets, capital, long-term debt, short-term liabilities, as well as tangible and intangible assets, inventories, AR, share capital, retained earnings, AP, 12) Recording and interpreting basic business transactions: sale, purchase, processing, investing, cash, 14) Identification of main captions of P&L: revenues, operational expenses, gross profit (gross margin), financial items, gains and losses, net profit, and retained profit, 15) The difference in accounting for a merchandising, manufacturing and servicing companies, 16) The meaning of merchandise purchase, merchandise inventory, discounts, returns and allowances, expenses, gross profit on sale, 17) The FIFO, LIFO and average cost-flow methods, 21) Cost of inventories, 22) Accounting for fixed assets: buy and sell, depreciation, scrapping, computation of residual value, disposal, 23) Depreciation methods: straight-line, units of production, double-declining balance, and sum-of-the-years digits, 24) The assumptions for and construction of Balance Sheet, Profit and Loss Account. | | |
| Prerequisites and co-requisites | No requirements | | |
| Assessment methods and criteria | Subject passing criteria | Passing threshold | Percentage of the final grade |
| | Written Assessment 1 | 60.0% | 50.0% |
| | Written Assessment 2 | 60.0% | 50.0% |
| Recommended reading | Basic literature | Marshall, McManus & Viele, "Accounting. What the Numbers Mean", McGraw-Hill, 7th Edition. | |
| | Supplementary literature | Robins & Wood, "Book-keeping and Accounting", Prentice Hall, 5th Edition. Eisen, "Accounting", Barron's, 5th Edition. | |
| | eResources addresses | Adresy na platformie eNauczanie: | |

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| <p>Example issues/ example questions/ tasks being completed</p> | <p>Task 1. Recording transactions to T-accounts (RT). Max 23 points.</p> <p>A company called "REX" has following assets and liabilities as at Jan 1, 200X:</p> <ul style="list-style-type: none"> - fixed assets 50,000 - materials inventory 20,000 - cash (in bank and petty together) 30,000 - common stock (600 shares at 100 per share) 60,000 - long-term bank loan (from <i>RBS</i>) 10,000 - short-term liabilities (<i>Lyreco</i> 10,000; <i>Axel Computers</i> 20,000) 30,000 <p>The following transactions took place in January:</p> <ol style="list-style-type: none"> 1. Cash purchase of a new server from <i>Axel Computers</i>. 4,000 2. Repayment of a capital portion of the long-term bank loan (<i>RBS</i>). 2,000 3. Credit purchase of tradeable goods from <i>Lyreco</i>. 8,000 4. Bank transfer of a part of liabilities to <i>Axel Computers</i>. 10,000 5. Buyback of ten common shares from a shareholder. ? <p>Required (only T-accounts):</p> <p>(A) Open necessary accounts with opening balances. (B) Record the above 5 transactions into General Ledger and necessary Sub-ledger T-accounts. (C) Reconcile closing balances of subledger accounts with the nominal account. (D) Close all T-accounts with closing balances. (E) Compute and write down the accounting equation at the end of the period.</p> |
| <p>Work placement</p> | <p>Not applicable</p> |

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