

3. Educational programme

Project group leader (the educational programme guarantor)
Professor Shtunder I. O.

3.1 Educational programme profile in “Economics of Industry Markets”

| 1 – General information | |
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| Full name of IHE and structural unit | State University of Trade and Economics, Faculty of Economics, Management and Psychology, Department of Economics and Competition Policy |
| Academic degree and qualification title in the original | Bachelor’s Degree speciality«Economics» |
| Educational programme title | « Economics of Industry Markets » |
| Standards conformity | Conforms to the MES higher education standards (Ukraine) |
| Qualification title (degree), programme credits and duration | Bachelor’s degree diploma, single. - on the basis of complete general secondary education – 240 ECTS credits, training period 3 years and 10 months; - on the basis of the "professional junior bachelor" degree, it is possible to re-enroll up to 60 ECTS credits and shorten the training period to 2 years and 10 months; - on the basis of the junior bachelor's degree, it is possible to re-enroll up to 120 ECTS credits and shorten the study period to 1 year and 10 months. |
| Accreditation | Accreditation Certificate issued by the Ministry of Education and Science of Ukraine (Ukraine) for the period of validity until July 1, 2026 |
| Cycle/level | National Qualifications Framework of Ukraine – level 6, FQ-EHEA – first cycle, EQF-LLL – level 6 |
| Academic backgrounds | Complete general secondary education - educational degree "professional junior bachelor"; - educational degree "junior bachelor"; - the terms of admission and training under the Program are regulated by the Rules of Admission to SUTE |
| Language(s) of instruction | Ukrainian |
| Programme duration | 4 years |
| Educational programme link | https://knute.edu.ua |
| 2 – Educational programme aim | |

Training of specialists who possess modern economic thinking, theoretical knowledge and practical skills necessary for effective analysis of the economic environment of industry markets, patterns of functioning and development of industry markets and substantiation of competitive behaviour of market entities.

3 – Educational programme general information

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| Subject area | <ul style="list-style-type: none"> • <i>Object of study and/or activity:</i> patterns of functioning and development of socio-economic systems, socio-economic processes, their modeling, forecasting and regulation, motivation and behaviour of economic subjects. • <i>Aims of training:</i> training of specialists who possess modern economic thinking, theoretical knowledge and practical skills necessary for solving the tasks of the subject area. • <i>Theoretical content of the subject area:</i> notions, categories, concepts, principles of economic sciences in general and economics of branch markets in particular. • <i>Methods, methodologies and techniques:</i> general scientific methods of cognition and research activity, mathematical and statistical methods of economic analysis, economic and mathematical modeling, information and communication technologies of research, distribution, and presentation of research results. • <i>Tools and equipment:</i> up-to-date information and communication equipment, information systems and software products used in professional activities. |
| Educational programme orientation | Educational and professional. |
| Educational and specialisation goals and objectives | <p>Acquiring theoretical knowledge, mastering the skills and technologies of economic analysis at the industry level, substantiating the competitive behaviour of individual economic entities and their associations.</p> <p>Keywords: economics, market, industry, economic analysis, competitive behaviour.</p> |
| Specific requirements | <p>In-depth study of the regularities of commodity and industry markets' functioning, the behaviour of market players.</p> <p>Applicants' individual trajectory of branch specialization within the educational program formation.</p> |

4 – Career opportunities and further learning

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| Career opportunities | <p>Jobs at enterprises of various branches of the economy, in the system of state authorities, primarily in branch ministries and departments.</p> <p>According to the classification of professions of Ukraine State Classifier 003: 2010 positions: 2490 inspector; 2442 price control inspector; 2441.2 economist; 2441.2 economic advisor; 2441.2 consultant on economic issues; 2441.2 planning economist; 2441.2 pricing economist; 1317 manager of the agency; 1231 head of the planning and economic department; 1238 head of projects and programs in the field of material (non-material) production; 2419.2 analyst specialist in commodity market research; 2419.2 specialist in business efficiency, etc.</p> |
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| Further learning | <p>Opportunity to study under the educational program of the second cycle of FQ-EHEA in the speciality "Economics";</p> <p>The opportunity to study in educational programs of the second cycle of FQ-EHEA in the specialities of related professional activities: legal, marketing, accounting and control, educational, etc.</p> |
| 5 – Training and assessment | |
| Teaching and learning | <p>A balanced combination of classroom (lectures-discussions, seminar classes, practical classes in small groups using case study methods, brainstorming, modelling the behaviour of economic entities, etc., presentations, teacher consultations), including distance learning using resources of the SUTE remote platform based on Moodle, MS Office 365, Zoom, and independent work (content analysis of information sources, individual and collective project work, etc.) based on problem-oriented, interactive learning and self-learning.</p> |
| Assessment | <p>Students' academic performance is assessed according to «Regulations on the evaluation of learning outcomes of SUTE students and postgraduate students» and «Regulations on the organisation of the educational process of students» in the following forms: current control, written exams, qualification exam.</p> |
| 6 – Programme competences | |
| Integral competence (IC) | <p>The ability to solve complex specialized tasks and practical problems in the economic sphere in <i>general and at the level of industry markets in particular</i>, which are characterized by the complexity and uncertainty of conditions, which involves the application of theories and methods of economic science.</p> |

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| <p>General competences (GCs)</p> | <p>GC1. The ability to realize one's rights and responsibilities as a member of society, to realize the values of civil (democratic) society and the need for its sustainable development, the rule of law, the rights and freedoms of a person and a citizen in Ukraine.</p> <p>GC2. The ability to preserve moral, cultural, scientific values and multiply the achievements of society based on an understanding of the history and patterns of development of the subject area, in particular the economy of industry markets, its place in the general system of knowledge about nature and society and in the development of society, technique and technology, to use various types and forms of motor activity for active recreation and leading a healthy lifestyle.</p> <p>GC3. Ability to abstract thinking, analysis and synthesis.</p> <p>GC4. Ability to apply knowledge in practical situations.</p> <p>GC5. Ability to communicate in the state language both orally and in writing.</p> <p>GC6. Ability to communicate in a foreign language.</p> <p>GC7. Skills in using information and communication technologies.</p> <p>GC8. Ability to search, process and analyze information from various sources.</p> <p>GC9. Ability to adapt and act in a new situation.</p> <p>GC10. The ability to be critical and self-critical.</p> <p>GC11. Ability to make informed decisions.</p> <p>GC12. Skills of interpersonal interaction.</p> <p>GC13. The ability to act socially responsibly and consciously.</p> |
| <p>Professional competences (PCs)</p> | <p>PC1. The ability to demonstrate knowledge and understanding of the problems of the subject area, the foundations of the modern economy at the micro-, meso-, macro- and international levels functioning.</p> <p>PC2. The ability to carry out professional activities in accordance with current regulatory and legal acts.</p> <p>PC3. Understanding the features of leading scientific schools and areas of economic science.</p> <p>PC4. The ability to explain economic and social processes and phenomena on the basis of theoretical models, to analyze and meaningfully interpret the obtained results.</p> <p>PC5. Understanding the peculiarities of the modern world and national economy, their institutional structure, substantiating the directions of the state's social, economic and foreign economic policy.</p> <p>PC6. Ability to apply economic and mathematical methods and models to solve economic problems.</p> <p>PC7. Ability to apply computer technologies and data processing software to solve economic problems, analyze information and prepare analytical reports.</p> <p>PC8. The ability to analyze and solve tasks in the field of economic and social-labour relations.</p> <p>PC9. The ability to forecast socio-economic processes on the basis of standard theoretical and econometric models.</p> <p>PC10. The ability to use modern sources of economic, social,</p> |

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| | <p>management, accounting information for the preparation of official documents and analytical reports.</p> <p>PC11. The ability to justify economic decisions based on an understanding of the regularities of economic systems and processes and using modern methodological tools.</p> <p>PC12. The ability to identify problems of an economic nature independently when specific situations analyzing, to propose ways to solve them.</p> <p>PC13. The ability to conduct an economic analysis of economic entities functioning and development as well as their competitiveness assessment.</p> <p>PC14. The ability to deeply analyze problems and phenomena in one or more professional areas, taking into account economic risks and possible socio-economic consequences.</p> <p><i>PC15. Understanding the principles of sectoral organization of the economy, the ability to distinguish the key determinants of sectoral markets development, to assess their impact on market participants' behaviour.</i></p> <p><i>PC16. The ability to justify the competitive behaviour of business entities in industry markets, including in conditions of uncertainty, risk and/or information asymmetry.</i></p> <p><i>PC17. The ability to determine the target orientations of the enterprise's development, taking into account industry and regional / global trends in economic development.</i></p> |
| 7 – Programme learning outcomes | |
| | <p>PLO1. To associate oneself as a member of civil society, the scientific community, to recognize the rule of law, in particular in professional activities, to understand and be able to use one's own rights and freedoms, to show respect for the rights and freedoms of other people, in particular, team members.</p> <p>PLO2. Reproduce moral, cultural, scientific values, multiply society's achievements in the socio-economic sphere, promote a healthy lifestyle.</p> <p>PLO3. Know and use economic terminology, explain the basic concepts of micro- and macroeconomics, <i>theories of industry markets.</i></p> <p>PLO4. Understand the principles of economic science, the peculiarities of economic systems functioning, <i>in particular at the micro, meso, and macro levels.</i></p> <p>PLO5. Apply analytical and methodical tools for justifying proposals and making managerial decisions by various economic agents (individuals, households, enterprises and state authorities).</p> <p>PLO6. Use professional argumentation to convey information, ideas, problems and methods of solving them to specialists and non-specialists in the field of economic activity.</p> <p>PLO7. To explain the models of socio-economic phenomena from the point of view of fundamental principles and knowledge based on the understanding of the main directions of economic science development.</p> <p>PLO8. Apply appropriate economic and mathematical methods and models to solve economic problems.</p> <p>PLO9. To be aware of the main features of the modern world and</p> |

national economy, institutional structure, directions of social, economic, and foreign economic policy of the state.

PLO10. To conduct an analysis of business entities functioning and development, to determine functional areas, to calculate the relevant indicators characterizing the effectiveness of their activities.

PLO11. To be able to analyze the processes of state and market regulation of socio-economic and labour relations, *in particular to be able to evaluate the economic effects of the regulatory environment influence on the development of the industry market, the behaviour of its subjects.*

PLO12. Apply the acquired theoretical knowledge to solve practical problems and meaningfully interpret the obtained results.

PLO13. Identify sources and understand the methodology of determining and methods of obtaining socio-economic data, collect and analyze the necessary information, calculate economic and social indicators.

PLO14. Identify and plan opportunities for personal professional development.

PLO15. Demonstrate basic skills of creative and critical thinking in research and professional communication.

PLO16. Be able to use data, provide arguments, critically evaluate logic and form conclusions from scientific and analytical texts on economics.

PLO17. To perform an interdisciplinary analysis of socio-economic phenomena and problems in one or more professional areas, taking into account risks and possible socio-economic consequences.

PLO18. Use regulatory and legal acts regulating professional activity.

PLO19. Use information and communication technologies to solve social and economic problems, prepare and present analytical reports.

PLO20. Master oral and written professional communication skills in national and foreign languages.

PLO21. Be able to think abstractly, apply analysis and synthesis to identify the key characteristics of economic systems of different levels, as well as the peculiarities of their subjects behaviour.

PLO22. Demonstrate flexibility and adaptability in new situations, in working with new objects, in uncertain conditions, *in particular in conditions of information asymmetry.*

PLO23. Show the skills of independent work, demonstrate critical, creative, self-critical thinking.

PLO24. Demonstrate the ability to act socially responsibly and consciously based on ethical principles, value and respect cultural diversity, individual differences of people.

PL025. To substantiate the competitive behaviour of business entities taking into account the trends of industry and general economic development.

8 – Resource support for programme implementation

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| Academic staff | 100% of the academic staff involved in teaching professionally-oriented subjects have scientific qualifications in their specialties and have excellent professional training. Involvement of teaching specialists-practitioners, including foreign ones. |
| Facilities | Academic facilities-student ratio is 4 m2 per person. 40% of the classrooms are technologically equipped with multimedia units. The SUTE facilities include the following: libraries and a reading room, a canteen and cafeterias, an assembly hall, gyms, a stadium, a health-care centre, residence halls. |
| Informational, teaching and learning materials | Classrooms are equipped with modern demonstration equipment, computer rooms are equipped with equipment with the latest software versions. The SUTE remote platform based on Moodle and MS Office 365 functions. Availability of social and household infrastructure of SUTE. |
| Informational, educational and methodological support | The availability of published monographs, textbooks, educational and methodological guides, reference notes of lectures, workshops, methodological recommendations for the independent work of students to ensure the educational process. The dissemination of public information about the educational and professional program is ensured through the publication of the educational and professional program on the official website of SUTE, the ECTS information package, the schedule of classes, as well as all the components of the educational process, which are subject to publication in accordance with the Law of Ukraine "On Higher Education". |
| 9 – Academic mobility | |
| National credit mobility | It is implemented in accordance with the Regulation on the procedure for realizing the right to academic mobility at SUTE Practical training modules are implemented at enterprises of the private and/or public sector of the economy, in state and municipal authorities within the framework of bilateral agreements. |
| International credit mobility | International credit mobility is implemented through the agreements on international academic mobility including Erasmus + |
| Training of foreign students | According to the rules of admission to SUTE in 2024 |

3.2. List of the educational programme components and their logical order

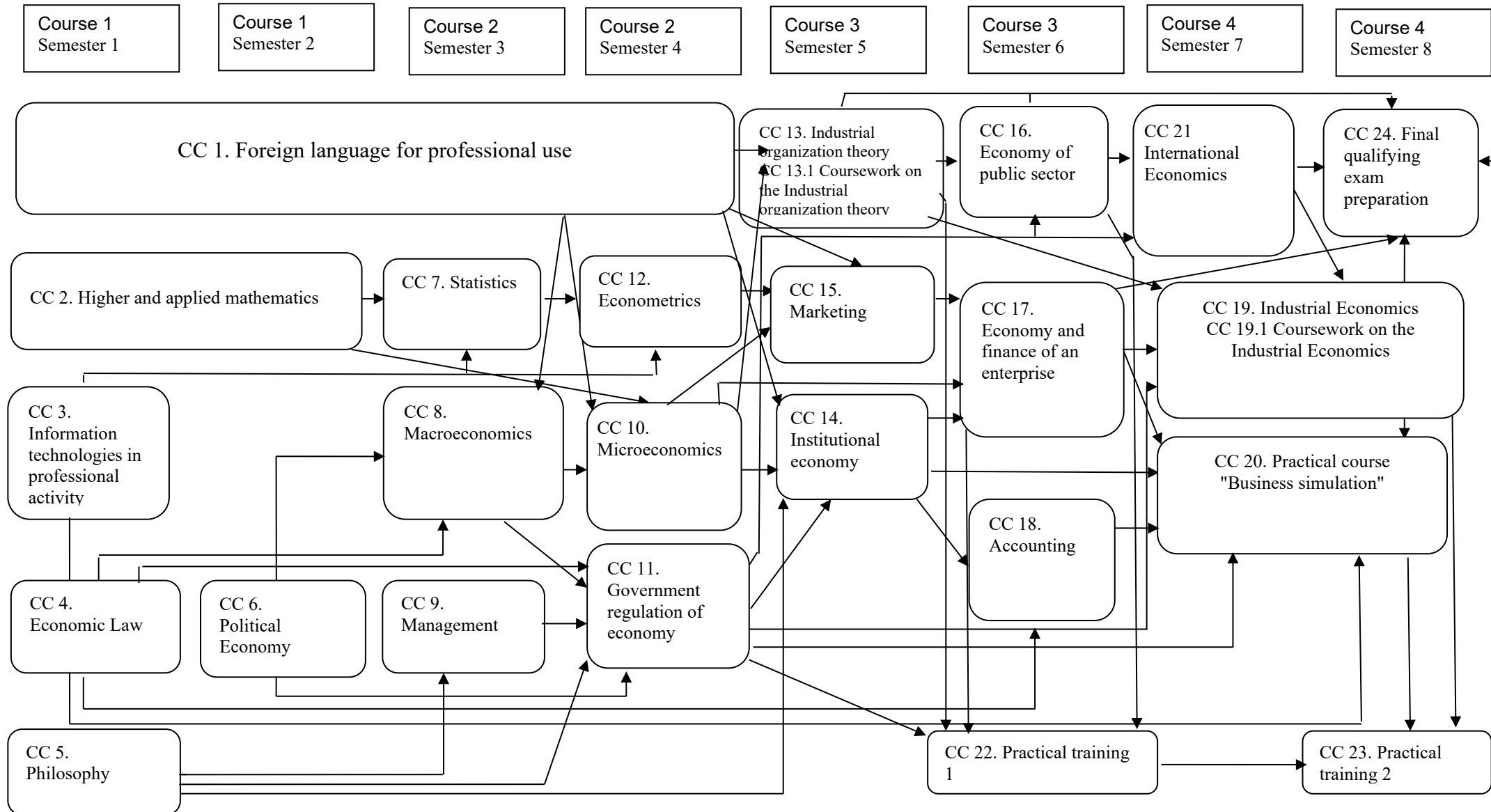
3.2.1 List of the EP components

| Subject code | The Educational Programme components (subjects, course projects (papers), work-based learnings, qualifying examination, final qualification work) | Total credits |
|--|---|--------------------|
| 1 | 2 | 3 |
| EP Compulsory components | | |
| CC 1. | Foreign language for professional use | 24 |
| CC 2. | Higher and applied mathematics | 12 |
| CC 3. | Information technologies in professional activity | 6 |
| CC 4. | Economic Law | 6 |
| CC 5. | Philosophy | 6 |
| CC 6. | Political Economy | 6 |
| CC 7. | Statistics | 6 |
| CC 8. | Macroeconomics | 6 |
| CC 9. | Management | 6 |
| CC 10. | Microeconomics | 6 |
| CC 11. | Government regulation of economy | 6 |
| CC 12. | Econometrics | 6 |
| CC 13. | Industrial organization theory | 6 |
| CC 13.1 | Coursework on the Industrial organization theory | |
| CC 14. | Institutional economy | 6 |
| CC 15. | Marketing | 6 |
| CC 16. | Economy of public sector | 6 |
| CC 17. | Economy and finance of an enterprise | 6 |
| CC 18. | Accounting | 6 |
| CC 19. | Industrial Economics | 12 |
| CC 19.1 | Coursework on the Industrial Economics | |
| CC 20. | Practical course "Business simulation" | 9 |
| CC 21 | International Economics | 6 |
| CC 22 | Practical training 1 | 6 |
| CC 23 | Practical training 2 | 6 |
| CC 24 | Final qualifying exam preparation | 3 |
| Total credits for compulsory components | | 174 credits |
| EP Optional components | | |
| OC 1. | Antimonopoly regulation of industry markets | 6 |
| OC 2. | Banking | 6 |
| OC 3. | Safety of life | 6 |
| OC 4 | Business planning | 6 |
| OC 5. | Stock exchange trade | 6 |
| OC 6. | Brand management | 6 |
| OC 7. | Contract Law | 6 |
| OC 8. | Economics of an agricultural enterprise | 6 |
| OC 9. | Economy of hotels and restaurants | 6 |

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| OC 10. | Economy of health care institutions | 6 |
| OC 11. | Light industry economy | 6 |
| OC 12. | Economy of real estate | 6 |
| OC 13. | Economy of transport enterprises | 6 |
| OC 14. | Economy of Trade | 6 |
| OC 15. | Economy of Tourism | 6 |
| OC 16. | Economy of food industry | 6 |
| OC 17. | Economical and mathematical modeling | 6 |
| OC 18. | Economic history | 6 |
| OC 19. | Economics and organization of information services market | 6 |
| OC 20. | E-trade | 6 |
| OC 21. | Information economics | 6 |
| OC 22. | Information wars | 6 |
| OC 23. | Information systems and technologies in the economy | 6 |
| OC 24. | Foreign Language | 6 |
| OC 25. | History of Ukraine | 6 |
| OC 26. | History of economic thought | 6 |
| OC 27. | Commercial Law | 6 |
| OC 28. | Logistics | 6 |
| OC 29. | Services marketing | 6 |
| OC 30. | International competition | 6 |
| OC 31. | National interests in the world geopolitics and geo-economics | 6 |
| OC 32. | Fundamentals of cyber security | 6 |
| OC 33. | Entrepreneurial Law | 6 |
| OC 34. | Behavioral Economy | 6 |
| OC 35. | Political Science | 6 |
| OC 36. | Legal regulation of financial services markets | 6 |
| OC 37. | Legal regulation of tourism activity | 6 |
| OC 38. | Psychology | 6 |
| OC 39. | Market of financial services | 6 |
| OC 40. | World market for goods and services | 6 |
| OC 41. | Sociology | 6 |
| OC 42. | Insurance | 6 |
| OC 43. | Modern economic theories | 6 |
| OC 44. | Globalization theory | 6 |
| OC 45. | Public Choice Theory | 6 |
| OC 46. | Trade Marketing | 6 |
| OC 47. | Ukrainian language (for professional use) | 6 |
| OC 48. | Finance, money and credit | 6 |
| OC 49. | Communicative English tailored course | 6 |
| OC 50. | Pricing | 6 |
| Total credits for optional components | | 66 credits |
| TOTAL NUMBER OF THE EP CREDITS | | 240 credits |

For all components of the educational programme, the form of final assessment is an examination.

2.2 The EP structural and logic network



3. Final assessment of graduates

The final assessment is carried out in the form of a final qualification examination.

The final qualification examination should be aimed at evaluating the achieved learning outcomes defined by the educational programme in the institution of higher education.

4.1. The programme competences and the EP compulsory components matrix

| Components Competences | CC 1 | CC 2 | CC 3 | CC 4 | CC 5 | CC 6 | CC 7 | CC 8 | CC 9 | CC 10 | CC 11 | CC 12 | CC 13 | CC 14 | CC 15 | CC 16 | CC 17 | CC 18 | CC 19 | CC 20 | CC 21 | CC 22 | CC 23 | CC 24 |
|---------------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| GC 1 | | | | + | + | | | | | | | | | | | | | | | | | + | | |
| GC 2 | | | | | + | + | | | + | | | | + | + | | | | | + | + | + | | + | |
| GC 3 | | | | | + | + | | + | | + | | + | + | | | | | | | | | + | | |
| GC 4 | | | | + | | | | + | + | + | | + | | + | | | + | + | | + | + | + | + | + |
| GC 5 | | | | + | + | + | | + | + | + | + | | + | + | + | + | + | + | + | | + | + | + | + |
| GC 6 | + | | | | | | | | | | | | | | | | | | | | | + | + | + |
| GC 7 | | | + | | | | + | | | | | + | | | + | | | + | | + | | | + | |
| GC 8 | | | + | + | | | + | + | | | + | + | + | + | + | + | + | | + | | | + | + | |
| GC 9 | | | | | + | + | | | + | | + | | + | | + | + | | | + | | | + | | |
| GC 10 | | + | | | + | | | | + | + | | | + | | | | | | | | | | | + |
| GC 11 | | + | | | | | | + | + | + | + | + | + | | + | + | + | | + | + | | + | + | + |
| GC 12 | + | | | | + | | | | | | + | | | | | + | | | | + | | + | + | |
| GC 13 | | | | + | | | | | | | + | | | | | | | | + | | | | + | |
| PC 1 | | | | | | + | | + | | + | | | + | | | | | + | | + | + | + | + | + |
| PC 2 | | | | + | | | | | | | + | | | + | | + | + | + | | | | + | + | + |
| PC 3 | | | | | | + | | + | | + | | | + | + | | | | | | | | + | + | + |
| PC 4 | | + | + | | + | | + | + | | + | | + | + | + | | | | | + | | + | + | + | + |
| PC 5 | | | | | | + | | + | | | + | | | + | | + | | | | | + | + | + | + |
| PC 6 | | + | | | | | + | | | + | | + | | | | | | | | + | | + | + | + |
| PC 7 | | | + | | | | + | | | | | + | + | | | | | + | + | + | + | | + | + |
| PC 8 | | | | | | + | | + | | + | + | | + | | | + | + | + | + | + | | + | + | + |
| PC 9 | | | | | | | + | + | | + | | + | + | | | | | | | | | + | + | + |
| PC 10 | + | | | | | | + | | + | | | | | | | | + | + | | + | | + | + | + |
| PC 11 | | | | | | + | | + | + | + | | | + | | | | | | | | | + | + | + |
| PC 12 | | | | | | | | | | + | | + | | | + | + | + | | + | | | + | + | + |
| PC 13 | | | | | | | | | | + | | + | | | | + | + | | | | | + | + | + |
| PC 14 | | | | | + | | | + | | + | + | | | | | | | | + | | + | + | + | + |
| PC 15 | | | | | | | | | | | + | | + | | | | | | + | | | + | + | + |

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|--------------|--|--|--|--|--|--|--|--|--|---|--|--|--|---|--|--|---|---|--|---|---|--|---|---|---|---|
| <i>PC 16</i> | | | | | | | | | | + | | | | + | | | | | | + | | | + | + | + | |
| <i>PC 17</i> | | | | | | | | | | | | | | + | | | + | + | | | + | | | + | + | + |

4.2. The programme competences and the EP optional components matrix

| Components C o m p e t e n c e s | OC1 | OC2 | OC3 | OC4 | OC5 | OC6 | OC7 | OC8 | OC9 | OC10 | OC11 | OC12 | OC13 | OC14 | OC15 | OC16 | OC17 | OC18 | OC19 | OC20 | OC21 | OC22 | OC23 | OC24 | OC25 | OC26 | OC27 | OC28 | OC29 | OC30 | OC31 | OC32 | OC33 | OC34 | OC35 | OC36 | OC37 | OC38 | OC39 | OC40 | OC41 | OC42 | OC43 | OC44 | OC45 | OC46 | OC47 | OC48 | OC49 | | | | |
|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|--|
| GC 1 | | | + | | | | + | | | | | | | | | | | + | | | + | | | | | + | | + | | + | + | + | + | + | | | | | + | | | | + | | | | | | | | | | |
| GC 2 | | + | | | + | | | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | | | | + | + | | | | | | | | | | | + | + | + | + | + | + | | | | | | | | | | |
| GC 3 | | | | + | | | | | | | | | | | | | + | | | | | + | + | | | | + | | + | | | | | | | | | | | | | + | | | | + | | | | | | | |
| GC 4 | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | | + | | | | + | + | | | | | | | | + | + | + | + | + | | | | + | | + | | | | | | |
| GC 5 | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| GC 6 | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GC 7 | | | | + | + | | | | | | | | | | | | + | | | + | + | + | | + | | | | | + | + | | | | | | | | | + | | | | | | | | | | | | | | |
| GC 8 | + | + | | + | + | + | | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| GC 9 | | | + | + | | + | + | | | | | | | | | | | | | | + | + | + | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | | | + | + | + | | | | | | | | |
| GC 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GC 11 | + | + | + | + | + | | | + | + | + | + | + | + | + | + | + | + | | + | + | | | | | | | | | + | + | | | | | | | | | | | | | | | | + | | | + | | | | |
| GC 12 | | | + | + | + | + | | | | | | | | | | | | | | | + | | | | | + | | | | + | + | | | | | | | | | | | | | | | + | + | | | | | | |
| GC 13 | + | | + | + | | | + | | | | | | | | | | | | + | | | + | | | | + | + | + | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | |
| PC 1 | | + | | | | | | + | + | + | + | + | + | + | + | + | | | + | | + | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | |
| PC 2 | + | | | + | | | + | | | | | | | | | | | | | | | + | | | | | | | + | + | | | | | | | | | | | | | | | | | | | | | | | |
| PC 3 | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PC 4 | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | | + | + | | | | | | + | | | | + | + | | | | | | | | | | | | | | | | | | | + | | |
| PC 5 | + | + | | | | | | + | + | + | + | + | + | + | + | + | + | | + | | + | + | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| PC 6 | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| PC 7 | | | | + | + | | | | | | | | | | | | | + | | | + | | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PC 8 | | | | | | + | + | | | | | | | | | | | | | | | | | | | | | | | + | | + | | | | | | | | | | | | | | | | | | + | | | |
| PC 9 | | | | | | | | | | | | | | | | | | + | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| PC 10 | | | | + | + | + | | | | | | | | | | | | | | | | + | | + | + | + | | | | | | | | | | | | | | | | | | | | | | | + | + | | | |
| PC 11 | | + | + | + | + | + | | + | + | + | + | + | + | + | + | + | + | | + | + | + | + | + | | | | + | | | + | + | | | | | | | | | | | | | | | | | | | + | | | |
| PC 12 | | | + | + | | + | | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | + | | |
| PC 13 | | | | | | | | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | |
| PC 14 | | + | | | | | | + | + | + | + | + | + | + | + | + | + | + | | + | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | + | |
| PC 15 | + | | + | | | | | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | |
| PC 16 | + | | + | | | | | + | + | + | + | + | + | + | + | + | + | | + | | + | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | + | |
| PC 17 | | | + | | | | | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

5.1 The programme learning outcomes and the EP compulsory components matrix

| Components PLO learning outcomes | Components | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | CC 1 | CC 2 | CC 3 | CC 4 | CC 5 | CC 6 | CC 7 | CC 8 | CC 9 | CC 10 | CC 11 | CC 12 | CC 13 | CC 14 | CC 15 | CC 16 | CC 17 | CC 18 | CC 19 | CC 20 | CC 21 | CC 22 | CC 23 | CC 24 |
| PLO1 | | | | + | + | + | | + | | | | | | | | | | | | | | + | + | + |
| PLO2 | | | | | + | + | | | | + | | | | | | | | | | | + | + | + | + |
| PLO3 | | | | | | + | | + | | + | | | + | | | | | | | | + | + | + | + |
| PLO4 | | | | | | + | | + | | + | | | + | + | | + | + | | + | | + | + | + | + |
| PLO5 | | + | | | | + | | | | + | + | + | + | | + | + | + | | + | + | | + | + | + |
| PLO6 | | | | + | + | + | | | + | | | | | | + | | | | | | | + | + | + |
| PLO7 | | | | | | + | | + | | + | | + | + | + | | | | | | | + | + | + | + |
| PLO8 | | + | | | | | | + | | + | | + | | | | | | | | + | | + | + | + |
| PLO9 | | | | | | + | | + | | + | | + | + | + | | | | | + | | + | + | + | + |
| PLO10 | | | | | | | | | | + | | + | | | | | | + | + | | + | | + | + |
| PLO11 | | | | | | | | + | | | + | | + | | | | | | + | | | + | + | + |
| PLO12 | | + | + | | | | | + | | + | | | + | | + | | | | + | + | + | + | + | + |
| PLO13 | | | + | | | | | + | + | | + | + | + | | | + | + | | + | + | | + | + | + |
| PLO14 | | | | + | | | | | + | | | | | | | | | | | | | + | + | + |
| PLO15 | + | | | + | + | + | | | + | | | + | + | + | + | | + | | + | + | | + | + | + |
| PLO16 | + | | | | + | + | | + | | + | | + | + | + | | + | + | | + | | | + | + | + |
| PLO17 | | | | | | + | + | + | | + | + | | + | + | | + | + | | + | | + | + | + | + |
| PLO18 | | | | + | | | | | | | + | | | | | | | | + | | | + | + | + |
| PLO19 | | | + | | | | | + | | | | + | | | | | | + | + | + | + | | + | + |
| PLO20 | + | | | + | + | + | + | + | + | + | + | | + | + | + | + | + | + | + | | | + | + | + |
| PLO21 | | | | | + | + | | + | | + | | + | + | + | | + | + | | + | | + | + | + | + |
| PLO22 | | | | | + | + | | + | | + | | + | + | + | + | | | | + | + | | + | + | + |
| PLO23 | | + | | | + | + | | | + | | + | | + | | + | + | | | + | | | + | + | + |

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|--|--|---|---|---|--|--|---|---|---|--|---|--|---|--|--|--|---|---|--|---|---|---|---|
| PLO24 | + | | | + | + | + | | | + | | + | | | | + | | | | + | | | + | + | + | |
| PLO25 | | | | | | | | | | + | | | + | | | | | | | + | | | + | + | + |

5.2. Programme learning outcomes and the EP optional components matrix

| Components Programme learning outcomes | OC1 | OC2 | OC3 | OC4 | OC5 | OC6 | OC7 | OC8 | OC9 | OC10 | OC11 | OC12 | OC13 | OC14 | OC15 | OC16 | OC17 | OC18 | OC19 | OC20 | OC21 | OC22 | OC23 | OC24 | OC25 | OC26 | OC27 | OC28 | OC29 | OC30 | OC31 | OC32 | OC33 | OC34 | OC35 | OC36 | OC37 | OC38 | OC39 | OC40 | OC41 | OC42 | OC43 | OC44 | OC45 | OC46 | OC47 | OC48 | OC49 | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|---|---|--|--|--|--|--|
| PLO1 | | | + | | | | + | | | | | | | | | | | + | | | | | | | | + | + | + | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | |
| PLO2 | | | + | + | | + | + | + | + | + | + | + | + | + | + | + | | + | + | | + | | | | | + | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | |
| PLO3 | | | | | | | + | + | + | + | + | + | + | + | + | + | | + | + | | + | | | | | | + | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | |
| PLO4 | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | + | | | | + | | | + | | | | | | | | | | | | | | | | + | + | | | | | |
| PLO5 | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | + | + | | + | + | | | | | + | + | | + | | | | | | | | | + | | | + | + | | | | + | + | | | | | | | |
| PLO6 | | + | | + | | + | | | | | | | | | | | | | + | | | | + | | | | | + | | + | + | | | | | | | | | | | | | | | | | | + | + | | | | | | | |
| PLO7 | | | | | | | | | | | | | | | | | | + | + | | | + | | | | | + | | | | + | | | | | | + | + | | | | | | | | | | | | | | | | | | | |
| PLO8 | | | | + | | | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | + | | | | | |
| PLO9 | + | | | | | | + | + | + | + | + | + | + | + | + | + | + | | + | | + | | | | | | | | | + | + | | + | + | | | | | + | | | | | | | | | | + | + | | | | | | | |
| PLO10 | | + | | | | | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | + | | | | | | | + | | | | | | | | | | | | | | | | | | | | + | + | | | | | | |
| PLO11 | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | + | + | | | | | | | | | | | | | | | | | |
| PLO12 | | + | | + | + | | + | + | + | + | + | + | + | + | + | + | + | | + | + | | | | | | | | | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PLO13 | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | | + | | | + | + | | | | | | | | | | | | + | | | | | | | | | | | | | | | | + | | | | | |
| PLO14 | | | | + | | + | + | | | | | | | | | | | | | | | | | + | | | | + | + | + | | | | | | + | | + | | | | | | | | | | + | + | | | | | | | | |
| PLO15 | | | | + | | + | | | | | | | | | | | | + | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | + | + | | | | | | | |
| PLO16 | | | | | | | | | | | | | | | | | | + | | | | + | | + | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | |
| PLO17 | + | | + | | | | + | + | + | + | + | + | + | + | + | + | + | | + | | + | | | | | | | | | + | | | | | | + | | | + | + | | | | | | | | | | + | | | | | | | |
| PLO18 | + | | + | | | + | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PLO19 | | | | | | + | | | | | | | | | | | | + | | | | | + | + | | | | | | + | | | | | | | | | | | | | | | | | | | + | | | | | | | | |
| PLO20 | + | | | | | | | | | | | | | | | | | | | | | | | | | + | | | | | | | | | | | | | | | | | | | | | | | | | + | + | | | | | |
| PLO21 | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | + | | + | | | | | | | | | | | | | | | | | | | |
| PLO22 | | | | | | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

