

**The Ministry of Education and Science of Ukraine
State University of Trade and Economics
Postgraduate and Doctoral Studies Department**

Academic degree	«Doctor of Philosophy»
Field of Study	18 «Production and Technology»
Subject Area	181 «Food Technology»

INFORMATION PACKAGE (ECTS)

**Educational and Scientific Programme
«FOOD TECHNOLOGY»
Academic Degree «Doctor of Philosophy»**

Kyiv 2024

1. General information about the University

1.1. Name and address

State University of Trade and Economics: (SUTE)

Address: Ukraine, 02156, Kyiv, 19, Kyoto str.

Phone: (044) 531 31 73, (044) 531 47 41

E-mail: knute@knute.edu.ua

Official website: www.knute.edu.ua

Official pages of SUTE in social networks:

Facebook: <https://www.facebook.com/knteuofficial/>

Instagram: https://www.instagram.com/knute_official/

Telegram: <https://t.me/knteu>

YouTube: <https://www.youtube.com/user/kyotostreet>

1.2. Description of the institution (in particular, type and status)

State University of Trade and Economics (SUTE) for its history has come a long way of formation and development and is currently recognized by society and the international community as a producer of highly intelligent resources, a powerful innovative educational and scientific complex with modern material and technical base, educational technologies, global information networks.

1946	Створено Київський філіал Всесоюзного заочного інституту радянської торгівлі
1959	Філіал передано у підпорядкування Харківському інституту радянської торгівлі, пізніше – Донецькому інституту радянської торгівлі
1966	Створено Київський торгово-економічний інститут
1994	Створено Київський державний торговельно-економічний університет
2000	За вагомий внесок у розвиток вищої освіти і науки України, враховуючи загальнодержавне та міжнародне визнання, університету надано статус національного
2006	Київський національний торговельно-економічний університет приєднався до Великої хартії університетів
2022	Створено Державний торговельно-економічний університет (ДТЕУ) як правонаступник Київського національного торговельно-економічного університету КНТЕУ

1946 - Kyiv branch of All-Union Correspondence Institute of Soviet Trade was established

1959 - Kyiv branch was transferred to subordination of Kharkiv Institute of Soviet Trade, later – to Donetsk Institute of Soviet Trade

1966 - Kyiv Trade and Economic Institute was established

1994 - Kyiv State University of Trade and Economics was established

2000 - Given the national and international recognition, the University was granted the status of “National” for a significant contribution to the development of higher education and science of Ukraine

2006 - Kyiv National University of Trade and Economics joined the Grand Charter of Universities

2021 - The University celebrated its 75th Anniversary at the state level

2022 - State University of Trade and Economics (SUTE) was established as the legal successor of KNUTE

Management of the University is based on the principles of autonomy and self-government, democratization of decision-making. The quality management system of SUTE is certified by international standards.

SUTE is the flagship of education and science, a leader in high quality training. A significant contribution to the formation of the younger generation belongs to a powerful scientific and pedagogical team - experienced

educators, prominent scientists, public figures, effective practitioners, stakeholders.

The University introduces European approaches to training a new generation of the nation's intellectual elite. International cooperation with foreign partners, leading universities, educational and research centers of the world opens new opportunities for students. In the coming decades of global challenges to humanity, SUTE graduates will become in-demand participants in finding effective solutions, solving national, European and global problems.

Strong human resources, involvement of practitioners in the educational process and constant updating of the content of education are the basis for a high level of training.

The educational process is aimed at meeting the needs of the labor market, the formation of students' competitive advantages, innovative competencies.

A modern library complex with an electronic reader service, access to full-text electronic resources of international databases is created.

SUTE has 3 educational institutes, 8 colleges and 2 higher commercial schools located in Kyiv, Kharkiv, Vinnytsia, Chernivtsi, Khmelnytsky, Uzhhorod, Kolomyia, Burshtyn, Zhytomyr and Odesa.

There are **6 faculties** in the basic institution of SUTE: Faculty of International Trade and Law; Faculty of Economics, Management and Psychology; Faculty of Finance and Accounting; Faculty of Information Technology; Faculty of Technologies and Business; Faculty of Trade and Marketing.

About 17,000 students study here for 74 Bachelor's (of which 4 are taught in English) and 70 Master's (of which 13 are taught in English) educational professional programmes.

SUTE carries out the training, retraining and advanced training of specialists in foreign and domestic trade, international economic relations, public management and administration, finance and banking, insurance, entrepreneurship, trading and exchange activities, accounting and taxation, financial control and audit, management, marketing, journalism, law, international law, tourism, hotel and restaurant business, food technology, psychology, philology, sociology and IT industry: cybersecurity, software engineering, computer science and system analysis.

The university has a powerful team of highly qualified lecturers and scientists, capable of successfully performing the assigned tasks. Among them are honored figures of science and technology, honored employees of higher education, academicians and corresponding members of national and branch academies of sciences.

More than 250 postgraduate students go to the Postgraduate School of the State University of Trade and Economics, established in 1966. Training is carried out in 16 specialties in postgraduate studies and 11 specialties in doctoral studies. The language of instruction is Ukrainian and English.

After thesis defence, the vast majority of graduates remain to work at the University and are involved in the formation and implementation of policies to improve the quality of activities.

To ensure a high level of training of students as well as postgraduate and doctoral students, the following SUTE centers function: The Institute of Higher Qualification (IHQ), Distance learning system, Career Development Center, Center for Technology Transfer, Center of Pedagogical and Psychological Studies, Training and Methodical Department, Academic Office, Business Incubator, Training and Research Center for Business Simulation. On the basis of the university, a legal clinic "Center for Legal Protection" was established, as well as an educational and advisory center for mediation, which provides assistance to university students and other persons in settling disputes by organizing and conducting mediation procedures. The Institute of Higher Qualification (IHQ) ensures the implementation of the concept of lifelong education, professional development, provides educational services of an international level for the training of highly qualified specialists who are able to work in today's economic conditions and successfully compete both on the domestic and international labor markets (MBA programs, second higher education, retraining and professional development).

Creative scientific teams of the university are fruitfully working on solving current scientific problems, the results of research are published in scientific journals "Scientia Fructuosa", "Foreign Trade: Economy, Finance, Law", international scientific and practical journal "Commodities and Markets".

The share of doctors of science in 2023 was 19% of the total number of scientific and pedagogical workers, candidates of sciences – 61%, that is, the share of workers with a scientific degree was 80%.

Experts of SUTE are actively involved in developing strategic directions of quality education assurance, they take part in a number of commissions of the Ministry of Education and Science of Ukraine as well as other ministries and departments.

One of the significant advantages of SUTE is the developed material and technical base of the European level for study, living, personal development.

Modernized educational buildings, classrooms are equipped with modern demonstration equipment, and laboratories – with the necessary equipment; Numerous multifunctional open-space and co-working areas,

sports grounds, football field, tennis courts, rehearsal halls, numerous restaurants and a comfortable University campus provide all the conditions for study, leisure and comfortable living.

Educational institution provides free legal and psychological assistance; there are many scientific groups and professional clubs.

State University of Trade and Economics concluded numerous agreements on cooperation with ministries, departments, organizations and enterprises, in particular with the Ministry of Economy of Ukraine, the Ministry of Finance of Ukraine, the Ministry of Foreign Affairs of Ukraine, the State Fiscal Service of Ukraine, the State Treasury Service of Ukraine, the Antimonopoly Committee of Ukraine, the State Audit Service of Ukraine, the Pension Fund of Ukraine, The Accounting Chamber of Ukraine, the National Bank of Ukraine, leading commercial banks, trade, hotel and restaurant chains, advertising agencies, logistics and distribution centers and other organizations and institutions.

Creative contacts are established and maintained with more than 100 institutions of higher education, international centers and institutions from 30 countries of the world. An exchange of teachers and students is carried out, the improvement of educational programmes at different levels of training and retraining of specialists as well as international projects on the integration of higher education are implemented, students undertake an internship in 10 foreign countries.

The university is a member of the prestigious international organizations: the European Public Law Center (EPLC), the Grand Charter of Universities, the Magna Charta of the European Universities, the Francophone University Agency (AUF), the International Association for Commodity Science and Technology, the International Culinary Union, the European Retail Academy, the World Leisure Organization.

There are well-known public figures, heads of state and government authorities, organizations and businesses, diplomatic officials and scientists, entrepreneurs among the graduates of the university.

1.3. University Administration

**Anatolii
MAZARAKI**

Rector, Doctor of Sciences in Economics, Professor, Academician of the National Academy of Pedagogical Sciences of Ukraine, Honored Scientist of Ukraine in the field of Science and Technology, Laureate of the State Award of Ukraine in Science and Technology, Laureate of

the Prize of the Cabinet of Ministers of Ukraine for the Development and Implementation of Innovative Technologies

**Nataliia
PRYTULSKA**

First Vice-Rector for Scientific and Pedagogical Work, Doctor of Technical Sciences, Professor, Laureate of the Prize of the Cabinet of Ministers of Ukraine for the Development and Implementation of Innovative Technologies

**Anzhelika
GERASYMENKO**

Vice-Rector for Research, Pedagogical Activities and International Relations, Doctor of Sciences in Economics, Professor

**Oleksii
KULIKOV**

Vice-Rector for Scientific and Pedagogical Work, Administrative and Economic Activities, PhD in Law

1.4. Educational and Scientific Programme

The educational and scientific program at the third (educational and scientific) level of higher education is a single complex of educational (learning courses, individual tasks, practices, control measures, etc.) and scientific (conducting scientific research, writing scientific publications, speaking at conferences, etc.) components directed to achieve the results of training, thesis preparation and its public defense provided by such a programme, which gives the right to obtain a specified qualification.

The applicant must master the educational and scientific programme, acquire theoretical knowledge, abilities, skills and competences defined by the standard of higher education of the third (educational and scientific) level in the relevant subject area, conduct his/her own scientific research, designed in the form of a thesis, and publish its main scientific results.

Field of Study Code & Title	Subject Area
03 Humanities	033 Philosophy
05 Social and Behavioural Sciences	051 Economics
	052 Political Science
	053 Psychology
07 Management and Administration	071 Accounting and Taxation
	072 Finance, Banking, Insurance and Stock Market
	073 Management

	075 Marketing
	076 Entrepreneurship, Trade and Exchange Activities
08 Law	081 Law
12 Information Technology	122 Computer Science 124 System Analysis
18 Production and Technology	181 Food Technology
28 Public Management and Administration	281 Public Management and Administration
29 International Relations	292 International Economic Relations 293 International Law

Publication of thesis results is carried out in accordance with the requirements of the Ministry of Education and Science of Ukraine.

Research thesis results must be covered in at least three scientific publications of the applicant, which include:

1) research papers in scientific publications included in the list of scientific professional publications of Ukraine on the date of publication. If the number of co-authors in such research paper (together with the applicant) is more than two people, it is equivalent to 0.5 publications (except for publications specified in subparagraph 2 of this paragraph);

2) research papers in periodicals published in the Web of Science Core Collection and / or Scopus databases (except for publications of the state recognized by the Verkhovna Rada of Ukraine as the aggressor state);

3) not more than one patent for an invention that has passed the qualification examination and directly relates to the scientific results of the dissertation, which is equivalent to one scientific publication;

4) individual monographs recommended for publication by academic councils of institutions and reviewed, except for individual monographs published in a state recognized by the Verkhovna Rada of Ukraine as an aggressor state. Individual sections in collective monographs are equated to individual monographs under the same conditions. Regulations on the procedure for the implementation of the academic mobility right at SUTE.

Research paper in the edition referred to the first - third quartiles (Q1 – Q3) according to the SCImago Journal and Country Rank or Journal Citation Reports classification, or a single monograph that meets these requirements is equivalent to two scientific publications.

Belonging of the scientific publication to the first - third quartiles (Q1 – Q3) according to the SCImago Journal and Country Rank or Journal Citation Reports classification is determined according to the rating in the year

in which the relevant publication was published or if the rating for the year is not published on the date of the one-time council published rating.

Research papers are credited on the topic of the thesis provided that the obtained scientific results are substantiated in accordance with the purpose of the paper (task) and conclusions, as well as the publication of not more than one research paper in one issue of a scientific publication.

Research papers published after the entry into force of the "Procedure for awarding the “Doctor of Philosophy” degree and revocation of the decision of the one-time specialized scientific council of higher education, scientific institution on awarding the “Doctor of Philosophy” degree, approved by the Cabinet of Ministers of Ukraine from January 12, 2022 № 44 only if they have an active DOI (Digital Object Identifier), except for publications that contain information classified as a state secret one or information for official use.

1.5. Admission requirements

Information about Entrance Tests and conditions for enrolling higher education applicants of the “Doctor of Philosophy” and “Doctor of Science” degrees is posted on the website of the State University of Trade and Economics.

<https://knute.edu.ua/blog/read?n=Viddil%20aspiranturi%20i%20doktoranturi&uk>

1.6. ECTS credit distribution policy (institutional credit framework)

The European Credit Transfer and Accumulation System (ECTS) is a system created to ensure a unified interstate procedure for measuring and comparing educational results of students of higher education between educational institutions. The system is designed for the mobility of students and teachers, it simplifies the comparison and recognition of educational programs and academic achievements of students both between domestic and foreign educational institutions.

ECTS Credit is a unit measuring the volume of academic workload of higher education applicant required to achieve specific (expected) learning outcomes. One ECTS credit equals to 30 hours.

ECTS credit distribution is based on the official duration of the study programme cycle and is determined by the curriculum. Credits are allocated to all courses studied by the student, practical training, completion of final qualification papers (projects), certification. Credits are assigned after the completion of the course study, subject to successful result of the final control, passing of practical training and certification.

1.7. Mechanisms of academic management

Mechanisms of academic management at the University are defined in:

- [Statute of SUTE;](#)
- [SUTE internal code of conduct;](#)
- [Regulations on the procedure for the preparation of Doctors of Philosophy;](#)
- [Regulations on the procedure for the preparation of Doctors of Science;](#)
- [Provision on the development and implementation of educational and scientific programs of the third level of higher education;](#)
- [SUTE Regulations on the organization of the educational process of the “Doctor of Philosophy” degree holders;](#)
- [Regulations on the certification of PhD candidates at SUTE;](#)
- [Provision on the procedure for implementing the right to academic mobility at SUTE;](#)
- [Regulations on the assessment of learning outcomes of students and postgraduate students;](#)
- [Regulations on independent work of students and postgraduate students of SUTE;](#)
- [Provision on the procedure for recognizing learning results obtained in non-formal and informal education;](#)
- [Provision on appealing the results of the final knowledge control of higher education students of SUTE;](#)
- [Provision on the candidate pool for postgraduate and doctoral studies at SUTE;](#)
- [Regulation on the observance of academic integrity by the pedagogical, academic, scientific workers and students of SUTE;](#)
- [Concept of the internal quality assurance of candidates for higher education degree “Doctor of Philosophy”;](#)
- [Procedure for awarding the “Doctor of Philosophy” degree of and annulment of the decision of the one-time specialized academic council of the institution of higher education, scientific institution on awarding the “Doctor of Philosophy” degree;](#)
- [Code of Ethics for a higher education candidate of SUTE;](#)
- [Regulation “On the scientific society of students, postgraduates and young scientists of SUTE”;](#)
- [Guidebook of a PhD candidate.](#)

2. Resources and facilities

2.1. Accommodation/housing conditions

On the territory of the campus there is an apartment-type dormitory for postgraduate students, situated 5-minute walk from the main academic building and a 15-minute walk from the metro stations «Lisova» and «Chernihivska». The city center (Khreschatyk St.) can be reached in 30 minutes. There's a forest park zone and Kyoto Park near the university.

Postgraduate students from other cities are accommodated in the dormitory if there are free places on the basis of submission by the Department of Postgraduate and Doctoral Studies by order of the Rector. A contract for the right to live in a dormitory is concluded between the university and the postgraduate student, which establishes the rights and obligations, as well as the mutual responsibility of the parties for their observance and fulfillment.

Dormitory address: № 5 – 6-A Miliutenko st., Kyiv, 02156;
tel. (044) 518-92-63, (044) 518-92-94

2.2. Catering

The university has modern canteens in buildings A, B, D, E and M (57 D. Doroshenko St.), where there is an opportunity to eat quality, balanced food at moderate prices, in particular, “Venice” cafeteria (building B) presents dishes of Italian cuisine.

Cafes are open every day in all educational buildings, where you can also taste own-produced dishes: main dishes (more than 15 types), side dishes (more than 10 types), cold dishes (more than 12 types), cold and hot drinks, fresh confectionery and desserts, made in our own confectionery shop (more than 35 types). There are vending machines with hot and cold drinks and confectionery in educational buildings and dormitories.

2.3. Financial support for postgraduate students

Postgraduate students of full-time education, studying at the expense of the state budget (for government contract), receive an academic scholarship once a month within proven university funding.

Size of academic scholarships, order of appointment and payment is determined by the Cabinet of Ministers of Ukraine.

For excellence in studying, taking part in scientific and public work postgraduate students may be allocated personal academic scholarship of SUTE and personalised academic scholarships of The President of Ukraine, Verkhovna Rada (Supreme Council) of Ukraine, Cabinet of Ministers of Ukraine, Kyiv City Head.

In order to improve living standards and incentives for academic achievements as well as for participation in social, sports and scientific activities, the university has the right to provide financial assistance and

encouragement of undergraduate and postgraduate students enrolled for the state order for full-time study using the funds provided in the estimates of the university.

Scholarship Commission decides to provide material support and encouragement separately for each person and each payment.

Appointment and payment of scholarships to postgraduate students who are foreign citizens and stateless persons shall be in accordance with international agreements of Ukraine and of the Cabinet of Ministers of Ukraine.

2.4. Medical services

On the territory of campus there is a first aid post where a general practitioner together with a nurse and 2 paramedics, in case of need, can provide first emergency medical aid to postgraduate students.

Medical treatment of foreign citizens temporarily residing on the territory of Ukraine is carried out in public and municipal health facilities at their own expense including health insurance contracts with Ukrainian insurers.

2.5. Management of inclusive education

2.5.1. The organization of inclusive education at SUTE is regulated by Resolution № 635 of the Cabinet of Ministers of Ukraine dated 10.07.2019 "On Approval of the Procedure for the Organization of Inclusive Education in Higher Education Institutions" and is carried out in order to realize the right of persons with special educational needs to obtain quality higher education, taking into account the needs and capabilities of such persons.

2.5.2. People with special educational needs who are getting an education at a higher education institution are rated as the students with special educational needs.

2.5.3. The provision of educational services to applicants with special educational needs in SUTE is carried out on an equal basis, without discrimination, regardless of age, citizenship, place of residence, gender, skin color, social and property status, nationality, language, origin, state of health, attitude towards religion, the presence of a criminal record, as well as other circumstances with the application of personally oriented teaching methods and taking into account the individual characteristics of the educational and cognitive activity of all education seekers, recommendations of an individual rehabilitation program for a person with a disability (if available) and/or a conclusion on a comprehensive psychological and pedagogical assessment of personal development (if available), provided by the inclusive resource center.

2.5.4. The organization of the educational process of applicants with special educational needs includes:

- creation of an inclusive educational environment;
- application of the principles of universal design in the educational process;
- bringing the territory of the University, buildings, structures and premises into compliance with the requirements of state construction norms, standards and rules. In the event that the existing buildings, structures and premises cannot be fully adapted for the needs of persons with disabilities, their reasonable adaptation is carried out taking into account the universal design;
- provision of the necessary educational and methodological materials and information and communication technologies for the organization of the educational process;
- providing, if necessary, a reasonable accommodation;
- application in the educational process of the most acceptable tools and methods of communication for students with special educational needs, including sign language, relief-dot Braille font, with the involvement of relevant specialists and teaching staff;
- ensuring the availability of information in various formats (Braille font, enlarged font, electronic format and others).

2.5.5. The individual plan for the implementation of the educational and scientific program of the applicant with special educational needs is developed with his participation, taking into account the recommendations of the individual rehabilitation program of the person with disabilities (if available) and/or the conclusion on the comprehensive psychological and pedagogical assessment of the child's development (if available).

2.5.6. Parents (other legal representatives) or persons authorized by them, social workers (workers), volunteers can accompany the applicant with special educational needs.

2.6. Digitization of University activities

There are numerous computer classes, large-format LED screens in lecture halls and projection equipment for presentations in all classrooms, a SMART library with VR technologies, a modern technical base for distance learning, updated computer equipment, free Wi-Fi, professional computer databases by types of activity, other innovations and trends in technical support.

Technical support is constantly being modernized. New servers and modern software were purchased and put into operation, allowing to automate the registration of postgraduate students and teachers, the procedure for choosing disciplines, drawing up curricula, forming the schedule and workload, developing educational and methodological materials, creating conditions for the synchronization of various information and technical platforms of the

university. **Distance learning** makes it possible to implement interactive technologies for teaching material, to obtain a comprehensive higher education or to improve qualifications and has such advantages as flexibility, relevance, convenience, modularity, interactivity. At the university, distance learning is used as an element of the educational process, which is implemented using the Moodle corporate distance learning platform, numerous professionally oriented information products, including Fidelio, Amadeus Selling Platform, MapInfoPro 12.3, QD Professional, MD Office, Murashina logistics, etc.

In addition to the corporate distance learning platform Moodle, participants in the educational process widely use such software products as video conference systems Zoom, Skype, WebEx, Office 365 Teams platforms, GoogleClassroom, Intello, etc. Numerous messengers are used to communicate with students, scientific and pedagogical workers of the university.

The modern VR studio is equipped with OculusGo **virtual reality** glasses, computers for individual work and SMART-wall. There is a specially equipped location that serves as a video studio for bloggers and recording interviews, which is equipped with digital devices for audio and video recording.

At the request of young people, the university created an **eSports zone** - this is a modern eSports arena equipped with powerful gaming computers and a plasma panel with a PlayStationPro game console. In the eSports zone, eSports teams of SUTE train and open eSports tournaments " SUTEDota 2", "SUTEHearthstone" are held.

2.7. Learning facilities

One of the advantages of SUTE is the material and technical base of the European level. Classrooms are equipped with modern demonstration equipment, laboratories with the necessary equipment. In total, the university has 60 computer rooms, among which there are classrooms equipped for webinars, lectures, and practical classes when students are at the university and the teacher is remote. The resources as well as material and technical equipment of the library are innovative and meet the needs of training modern specialists, providing space for independent and team work.

The university has multifunctional co-working spaces specially equipped for the creative work of participants in the educational process.

SUTEHUB coworking space is designed for everyone who needs a comfortable and cozy workplace for productive work, training, meetings, searching for new ideas, negotiations, presentations, round tables and master classes. The modern, comfortable space unites 6 different zones - 3 work

zones, a recreation hall, a conference hall and an area for negotiations, which ensures the cooperation of 70 participants.

PhyigitalHub coworking space is divided into several work zones: the “Artspace” zone, which is intended for holding creative events and generating ideas; the “Mediationroom” zone, where students can resolve disputes out of court, learn the art of negotiation and subtleties of diplomacy; the main hall with the “starry sky” (neon constellation of Ursa Major and Ursa Minor). Coworking spaces are equipped with everything necessary for comfortable study and relaxation.

2.8. SUTE library

The library of SUTE is an informational, educational, cultural and educational structural unit of the university with universal document funds. The library directs its work to the development and improvement of information support for the scientific activities of SUTE, the creation of comfortable conditions in which every reader - student, postgraduate student, teacher, scientist - has the opportunity to receive high-quality information support using modern information and communication technologies.

The library's document fund includes almost 900,000 copies of books, periodicals, dissertations and abstracts, educational and methodological materials, and electronic publications. Publications in the state language make 60% of the total number of the fund.

The website of the SUTE library (lib.knute.edu.ua) is functioning effectively, with full information about the library, its funds and services, an electronic catalog, available electronic resources (scientometric, bibliographic, full-text databases) and information on the possibility of using remote access to full-text electronic databases.

Users are presented with instructions for searching the documents, drawing up lists of used sources according to various styles and standards common in the world, reference and educational information, virtual book exhibitions, 3D tours, reports on events held in the library. Access to the electronic catalog of the SUTE library can be obtained from mobile devices, the corresponding link for downloading the application is available on the library website.

At the service of library users: 11 reading rooms with open access funds, 7 subscriptions, Bibliometrics room, SMART library, unique VR studio, Cybersport zone, halls of new arrivals of literature and foreign literature, special sectors of methodological publications of SUTE, fund of dissertations and abstracts, equipped with comfortable recreation areas with board games - football, chess and checkers.

The Bibliometrics Hall provides free online access to domestic and global full-text databases, scientometric research platforms: SCOPUS, Web of Science, EBSCO, etc. It contains a database of electronic textbooks, teaching materials, video courses on electronic media.

The SMART-library is an open space zoned for reading, holding conferences, lectures, workshops, presentations using the SMART-wall and plasma panel, HTC Vive virtual reality helmets and Oculus Go virtual reality glasses.

The introduction of new information technologies enables the library to significantly expand the information provision of users, which improves the quality of the educational process.

2.9. SUTE editions:

- **The scientific journal «Scientia Fructuosa» (professional journal of economic sciences, category B):**
research on the problems of macroeconomic theory and reforming the economy of Ukraine is highlighted; increasing the efficiency of business activities in various fields; management and marketing in trade, hospitality and tourism; accounting, financial analysis and control; development of stock, insurance and banking markets, etc. Published in Ukrainian and English;
- **The International scientific and practical journal «Products and Markets» (professional journal of engineering sciences, category B):**
issues of theory and practice of commodity science, new technologies, hotel and restaurant business, marketing, merchandising, logistics, quality and safety of goods (services), standardization, metrology, certification and quality management, protection of consumer rights are covered. Published in Ukrainian and English;
- **The scientific journal «Foreign trade: economics, finance, law» (professional journal of economic and legal sciences, category B):**
the results of theoretical and practical scientific research in the field of international and domestic economy, finance and law are highlighted. Published in Ukrainian and English.

The journals are registered in the international scientometric databases Index Copernicus, Directory of Research Journals Indexing, DOAJ, Research Bible, and the Google Scholar search system, are presented in the national reference database "Ukrainika Naukova" and the Ukrainian reference journal "Dzhereło".

2.10. Organization of mobility according to educational programmes

The State University of Trade and Economics closely cooperates with universities, international partners on international mobility programs. These programs are aimed at implementing the principle of academic mobility.

Main tasks:

- promoting the participation of students of higher education of SUTE in international academic mobility educational programs of foreign HEIs-partners;
- improvement of language competences of higher education students, which are necessary for studying and teaching in foreign institutions of higher education;
- organizational and coordination work on the development and implementation of projects of the Erasmus+ program of the European Union under the direction of KA1 "Educational (academic) mobility".

SUTE provides the opportunity to study in European institutions of higher education to students of higher education and graduates who have equal rights with citizens of EU member states, in English or another foreign language in various specialties.

SUTE implements its functions on the basis of treaties on international cooperation and inter-institutional agreements, including Erasmus+ projects with higher education institutions in France, Germany, Slovenia, Bulgaria, Greece, Slovakia and other European higher education institutions. SUTE recognizes results in non-formal and informal education. The mechanisms are defined by the Regulation on the procedure for recognizing learning outcomes obtained in non-formal and informal education.

2.11. Language courses

SUTE provides training in English and French under an intensive training program that creates conditions for achieving foreign language proficiency levels from A1 to B2 (in accordance with the recommendations of the Committee on Education at the Council of Europe and Language Education).

Classes in foreign language courses are conducted by highly qualified teachers with practical teaching experience. Training takes place according to the modular system. The topics of the modules have been developed taking into account the needs of students of higher education, according to which teachers specially select topics for communication, educational materials, choose the type of tasks and types of activities.

The contingent of students is formed at the beginning of the academic year. Students and graduates of all faculties, postgraduate and doctoral students as well as teachers and employees of SUTE can enroll for foreign language study programs. The cost of study depends on the level of the study program and the number of study hours.

Graduates of language courses who have mastered a foreign language at levels B1–B2 have the opportunity to take the exam for obtaining international language certificates (DELFDALF, IELTS) and participate in various forms of international academic mobility within the framework of cooperation agreements with European higher education institutions – partners of SUTE.

For additional information and to enroll for foreign language courses, contact the International Relations Department (educational building A, room 229, phone (044) 531 31 10).

2.12 Advisory assistance for postgraduate students

The Department of Postgraduate and Doctoral Studies helps postgraduate students to systematize the information scope, coordinate work between them and departments, other divisions of the university. Information is provided through online instruction, messages, during personal communication, by telephone or by means of a video conference.

The teaching staff of the SUTE departments offer consultative seminars to students of the third degree of higher education, during which young researchers are informed on both narrow professional and general scientific issues; the possibility of cooperation and establishment of partnership relations of the department with other research institutions of Ukraine; consultations on current issues of thesis, coverage of its results in domestic and foreign scientific publications. Postgraduate students have the opportunity to receive individual consultations, to report on the results of the research at the department's scientific and methodical seminars, to discuss it and to plan further steps as for the improvement of their research work. Information on programs of foreign foundations for conducting research abroad is also provided. The lecturers of the departments familiarize the students of higher education with the preparation and writing of requests for scientific internship. Young scientists receive consultations on the approval of their thesis results both at departmental seminars and at scientific conferences, get acquainted with the course of preparation of the thesis for defense and the procedure of its defense. Departments help in establishing contacts of young scientists with potential employers in universities and academic institutes of Ukraine and make efforts to maintain further scientific contacts with graduates in order to expand the scientific and research base.

2.13. Sports and recreation facilities

An important area of organizational and educational work of the University is the participation of postgraduate students in such traditional activities as: University Day, International Students' Day, Miss & Mr SUTE, Faculty Open Days, Donor Days, Tourism Day, Championship of the

intellectual games “Brain Ring” and “Your Game”, Festival of wits and humor at SUTE for the Rector’s Cup and more.

The university has culture and leisure center, which includes such creative amateur groups as: folk student academic chamber choir, contemporary dance studio, vocal and contemporary music studio.

For the development of students and popularization of a healthy lifestyle, on the basis of the Department of Physical Culture and Sports, there are sections for table tennis, fitness, volleyball, swimming, badminton, basketball, boxing, football, futsal, athletic gymnastics, athletics, wrestling, crossfit, physical rehabilitation and general physical training, tug-of-war; for big tennis, modern tennis courts equipped with a specialized surface were built on the territory of the university. A new billiards section has been opened, for which a separate room with tables for various types of games has been arranged. All conditions for physical education and sports have been created: a modern stadium with an artificial turf, sports grounds, two sports arenas, a gym, a boxing and wrestling hall, fitness rooms, and tennis courts.

2.14. Youth organizations

Public life of SUTE is rich, multifaceted and diverse. On a voluntary basis at the university operate:

- scientific society of students, postgraduate and doctoral students and young researchers;
- university student council: 6 councils of student self-government at faculties and 6 councils of student self-government in dormitories;
- student clubs: “Eco Club”, Debate Club “Polemic Union”, Philosophy Club “Phoenix”, “Law Club”, “Legal Clinic”, Entrepreneur Club “YEP Club”, “Business Club”, “Marketing”, “SapLab”, “H&SE Services”, “ProgramClub”, “TROS – creative advertising association of students”, “Luca Pacioli Accounting Club”, “Professional Accountant Club”, “Auditor Club”, “Union of SUTE Artists”, “European Club”, All-Ukrainian Movement “Youth for Consumer Rights”, Chemists Club “Start in Science”, “Culinary Club”, Psychological Club “SAPGEN”, Tourist Club “Everest”, Club “Service”, sports clubs in football, basketball, volleyball, tug-of-war and more.

2.15. Scientific society of students, postgraduate and doctoral students and young scientists

The main purpose of the activity of the Scientific society of students, postgraduates, doctoral students and young scientists of SUTE is to

comprehensively support the scientific, inventive and other creative activities of students and young scientists.

Main tasks:

1. Facilitating the formation of conditions for revealing the scientific and creative potential of young scientists.

2. Finding and supporting talented researchers among young scientists, providing them with comprehensive support.

3. Encouraging the development of the personality of a researcher, a modern scientist with a broad democratic outlook.

4. Organization and establishment of inter-university and international scientific and cultural cooperation.

Information and publishing activities.

Focus areas:

- development of science;
- work with young scientists;
- information support;
- implementation of Innovations;
- establishment of external relations.

In its activities, the Scientific society of students, postgraduates, doctoral students and young scientists of SUTE is governed by:

- the ethical code of a scientist of Ukraine;
- the regulation “On the scientific society of students, postgraduates and young scientists of the State University of Trade and Economics”;
- the regulation on the observance of academic integrity by pedagogical, academic, research workers and higher education seekers of SUTE.

3. Educational and Scientific Programme

Head of the project group (Director of the PhD Programme) – Nataliia Prytulska, Doctor of Technical Sciences, Professor, First-Vice Rector for Scientific and Pedagogical Work.

3.1. Profile of Educational and Scientific Programme (ESP) of the third level of higher education, subject area 181 «Food Technology»

1 – General information	
Full name of HEI and structural unit	State University of Trade and Economics
Higher education cycle	Third (educational and scientific) cycle

Higher education degree	Doctor of Philosophy
Field of study	18 Production and Technology
Subject area	181 Food Technology
Official title of the educational programme	Food Technology
Forms of obtaining education	Full-time form / Part-time form
Educational qualification	Doctor of Philosophy in Food Technology
Diploma qualification	Academic degree – Doctor of Philosophy Field of study – 18 Production and Technology Subject area – 181 Food Technology
The scope of the educational and scientific programme	240 ECTS credits
Availability of accreditation	Accredited by the National Agency for Quality Assurance of Higher Education. Certificate № 3591 dated 23.06.2022 Valid until July 1, 2026.
Cycle / level	QF for EHEA – third cycle; EQF for LLL – 8 level; NQF of Ukraine – 8 level;
Prerequisites	Master's degree The entrant's possession of the competencies and mastery of the learning outcomes defined by the standard of higher education in the subject area 181 «Food Technology» for the second (Master's) level of higher education (verified by entrance tests).
Language(s) of instruction	Ukrainian
Duration of the educational programme	4 years

2 – Educational and Scientific Programme Aim

Providing the student with in-depth knowledge, abilities, skills and other competencies sufficient to acquire the ability to produce new ideas, solve complex problems in the field of professional and/or research and innovation activities, master the methodology of scientific and pedagogical activities, conduct fundamental and /or applied research in the field of food technology, the results of which have scientific novelty, theoretical and practical significance.

3 - Educational and Scientific Programme Characteristics

Area of interest	<p><i>Object of activity:</i> technological processes and food products.</p> <p><i>Learning goals:</i> acquiring the ability to produce new ideas, solve complex problems, conduct fundamental and/or applied research in the field of food technology, and carry out scientific and pedagogical activities.</p> <p><i>Theoretical content of the subject area:</i> concepts, theories and principles of development and/or improvement of food technologies.</p> <p><i>Methods, techniques and technologies:</i> food industry technologies,</p>
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	<p>analytical methods, methods of computer simulation of technological processes, statistical methods of data analysis, modern digital technologies.</p> <p><i>Tools and equipment:</i> specialized laboratory and technological equipment, modern information systems and specialized software.</p>
Orientation of the educational programme	Educational and scientific. Scientific research with new and improved, practically directed and valuable theoretical and methodical results in the coordinates of the interests of scientific schools in food technology.
The main focus of the educational programme	Focused on the creation of new knowledge in the field of food technology, the development of theoretical and methodological, scientific and applied foundations of food technologies; principles of optimization of technological processes to ensure a high level of quality and safety of food products, laws of innovative development of the theory and practice of food technologies; emphasis on methodological principles of scientific, scientific-technical and scientific-pedagogical activity.
Programme features	<p>The educational component of the programme provides for 48 ECTS credits, of which:</p> <ul style="list-style-type: none"> • 36 ECTS credits for compulsory educational components, including 3 ECTS credits of scientific and pedagogical practice; • 12 ECTS credits are provided for mastering optional educational components, which strengthen the cycle of professional training. <p>The selective part of the program enables the right to choose academic disciplines, taking into account the individual needs of postgraduate students.</p> <p>The scientific component of the programme involves carrying out scientific research under the supervision of a scientific advisor with appropriate registration and public defense of the obtained results in the form of a thesis. This component of the program covers 192 ECTS credits and is drawn up in the form of an individual plan of a postgraduate student's research work.</p>
4 – Graduate Employability and Further Learnability	
Employment suitability	<p>Employment in the positions of scientific and scientific-pedagogical workers in scientific institutions and institutions of higher education, other positions requiring the qualification of a doctor of philosophy in food technology, in particular in the positions of scientists, experts in research institutions and divisions of enterprises, institutions, organizations. Work according to the national classifier of Ukraine "Profession Classifier" DK 003:2010:</p> <p>12 Heads of production and other main divisions 1237.1 Chief specialists - heads of research units and units for scientific and technical production training and other heads 2310. Teachers of universities and higher educational institutions. 247 Safety and Quality Professionals 2482 Professionals in the field of restaurant business.</p> <p>A graduate can hold other positions in accordance with professional job titles characterized by special professional competencies.</p>
Further learning opportunities	<ul style="list-style-type: none"> • Educational and scientific programmes at the 8th level of the NQF of Ukraine in related fields of scientific knowledge. • Educational programmes, research grants and scholarships

	<p>(including abroad) containing additional educational components.</p> <ul style="list-style-type: none"> Obtaining the scientific degree of Doctor of Sciences as well as additional qualifications in the adult education system.
5 – Teaching and Assessment	
Teaching and learning	<ul style="list-style-type: none"> Combination of lectures, practical classes, implementation of projects, analytical and research works. Problem-oriented learning, self-learning. Education with the use of elements of distance and interactive learning technologies. Involvement in counseling of post-graduate students of well-known specialists in the field of science and practice. <p>Direct participation in the performance of research works.</p>
Assessment	<p>Educational component of the programme. The system of control of postgraduate students' mastery of the courses of the educational and scientific programme consists of current and final types of control. The current control is aimed at obtaining operational data on the level of knowledge of postgraduate students and the quality of the developed competencies. It involves the application of a complex of assessment methods: oral questioning, test control, implementation of project tasks, etc. The final control of knowledge is in the form of an exam/credit and is conducted as a form of assessment of the level of assimilation of theoretical and practical material by a postgraduate student in a particular academic course.</p> <p>Scientific component of the programme. Evaluation of the scientific activity of postgraduate students is carried out on the basis of quantitative and qualitative indicators characterizing the preparation of research papers, participation in scientific conferences, preparation of separate parts of a thesis in accordance with the approved individual plan of scientific work of the postgraduate student. Postgraduate students' reports based on the results of the implementation of the individual plan of scientific work are approved every six months at the meeting of the departments and the academic council of the faculty with the appropriate recommendation.</p>
6 – Programme Competences	
Integral competence	The ability to produce new ideas, to solve complex problems of professional and/or research-innovative activity in the field of food production, to apply the methodology of scientific and pedagogical activity, as well as to conduct one's own scientific research, the results of which have scientific novelty, theoretical and practical significance.
General competences (GCs)	<p>GC 01. The ability to abstract thinking, analysis and synthesis of new scientific ideas based on logical arguments.</p> <p>GC 02. The ability to work in an international context</p> <p>GC 03. The ability to solve complex problems in food technology based on a systematic scientific and general cultural worldview while observing the principles of professional ethics and academic integrity.</p> <p>GC 04. <i>The ability to search, process and analyze information from various sources, systematize it, generalize and formulate appropriate</i></p>

	<p><i>conclusions.</i></p> <p><i>GC 05. Acquisition of oral and written presentation skills of scientific research results.</i></p>
Special (professional) competences (SCs)	<p>SC01. The ability to perform original research, to achieve scientific results that form new knowledge in the field of food technology and/or related interdisciplinary areas.</p> <p>SC02. The ability to initiate, develop and implement complex innovative projects in the field of food production and related interdisciplinary projects, to show leadership during their implementation.</p> <p>SC03. The ability to apply modern methodologies, methods and tools of experimental and theoretical research, digital technologies, computer modeling methods, databases and other electronic resources, specialized software in scientific and educational activities in the field of food technology.</p> <p>SC04. The ability to critically analyze and evaluate the current state and trends in the development of food technologies.</p> <p>SC05. The ability to identify, set and solve problems of a research nature, evaluate and ensure the quality of work performed in the food industry.</p> <p>SC06. The ability to carry out scientific and pedagogical activities in institutions of higher education.</p> <p><i>SC07. The ability to use modern laboratory an instrumental base for conducting experiments research and determination of physico-chemical, microbiological indicators of quality, safety of raw materials and finished products and technological process control.</i></p> <p><i>SC08. The ability to form the structure of the dissertation and its classification content, plan and organize scientific research, process their results, publish articles, to ensure legal protection of intellectual property.</i></p>
7 – Programme Learning Outcomes (PLOs)	
<p>PLO 01. Freely present and discuss with specialists and non-specialists the results of research, scientific and applied problems in the field of food technology in national and foreign languages, competently reflect the results of research in scientific publications in compliance with the principles of professional ethics and academic integrity.</p> <p>PLO 02. Formulate and test hypotheses; use appropriate evidence to substantiate conclusions, in particular, the results of theoretical analysis, experimental studies and mathematical and/or computer modeling, available literature data.</p> <p>PLO 03. Use modern technologies and tools for searching, processing and analyzing information on food technology issues, in particular, statistical methods for analyzing data of a large volume and/or complex structure, specialized databases and information systems.</p> <p>PLO 04. Plan, organize and perform experimental and/or theoretical research in the field of food technology using modern tools and equipment, information technology and software.</p> <p>PLO 05. Have advanced conceptual and methodological knowledge, demonstrate research skills in the field of food technology and at the border of subject areas, sufficient for conducting scientific and applied research with the aim of obtaining new knowledge and/or carrying out innovations at the level of modern world achievements of science and technology.</p> <p>PLO 06. Develop and implement scientific and/or innovative engineering projects that provide an opportunity to solve significant scientific and applied problems in the field of food production, taking into account social, economic, environmental and legal aspects.</p> <p>PLO 07. Critically analyze the results of one's own research in the field of food technologies and</p>	

the results of other researchers in the context of the entire complex of modern knowledge regarding the researched problem, ensure the protection of intellectual property.

PLO 08. Develop and teach special disciplines in food technology in institutions of higher education, to provide educational and methodological support for the educational process.

PLO 09. *Demonstrate knowledge and understanding of the basic requirements for food raw materials, food products from the point of view of ensuring their quality and safety for humans, changes during the technological process under the influence of various factors and general laws of these transformations.*

PLO 10. *Develop and implement innovative technologies using functional and technological ingredients, taking into account the principles of technological expediency and safety.*

PLO 11. *Fluency in modern research methods of physico-chemical, microbiological indicators of food raw materials, finished products, know the factors affecting the accuracy of analysis results, methods of mathematical processing of the obtained results.*

8 - Resource Support for Programme Implementation

Staffing support	The implementation of the educational and scientific programme is carried out by scientific and pedagogical workers who have scientific degrees and academic titles, are recognized professionals with experience in research, management or innovative work by profession. Master classes and open lectures of business representatives are held to ensure that postgraduate students' scientific research meets the requirements of the professional environment.
Material and technical support	<p>Postgraduate students are fully provided with material resources for study and research. At their service:</p> <ul style="list-style-type: none"> ü more than 30 thousand m² of educational buildings; ü a separate dormitory for postgraduate students (over 80 rooms) ü almost 1.5 million titles of educational and scientific literature in the SUTE library; ü 470 seats in the SUTE reading rooms, including in the SUTE multimedia library, where access to SCOPUS, Web of Science scientometric databases is provided; ü 2,000 PC workstations with access to the Internet + WiFi. All computers are equipped with basic software, special software is installed on the computers in the laboratories of the departments, necessary for conducting research by postgraduate students; ü distance learning laboratory, which hosts 966 educational courses; ü electronic platform for communication of postgraduate students based on Microsoft Office 365 platform, etc. ü research laboratories equipped with modern equipment of leading companies.
Informational support, teaching and learning materials	<p>Use of over 1.5 million titles of educational and scientific literature in the SUTE library; including in the multimedia library, where access to scientometric databases SCOPUS, Web of Science is provided; electronic platform for communication of postgraduate students based on Microsoft Office 365.</p> <p>Documents regulating admission procedures, postgraduate study, thesis defense, etc. are publicly available on the SUTE website.</p>

9 - Academic Mobility

National credit mobility	According to the agreements on cooperation between SUTE and
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	institutions of higher education of Ukraine, scientific institutions.
International credit mobility	Within the scope of cooperation agreements between SUTE and institutions of higher education in France, Great Britain, Poland, Germany, within the framework of which partner exchange and training of postgraduate students is carried out.
Training of foreign applicants for higher education	Foreign students of higher education are guaranteed all rights and freedoms, in accordance with the current legislation of Ukraine and the University Charter.

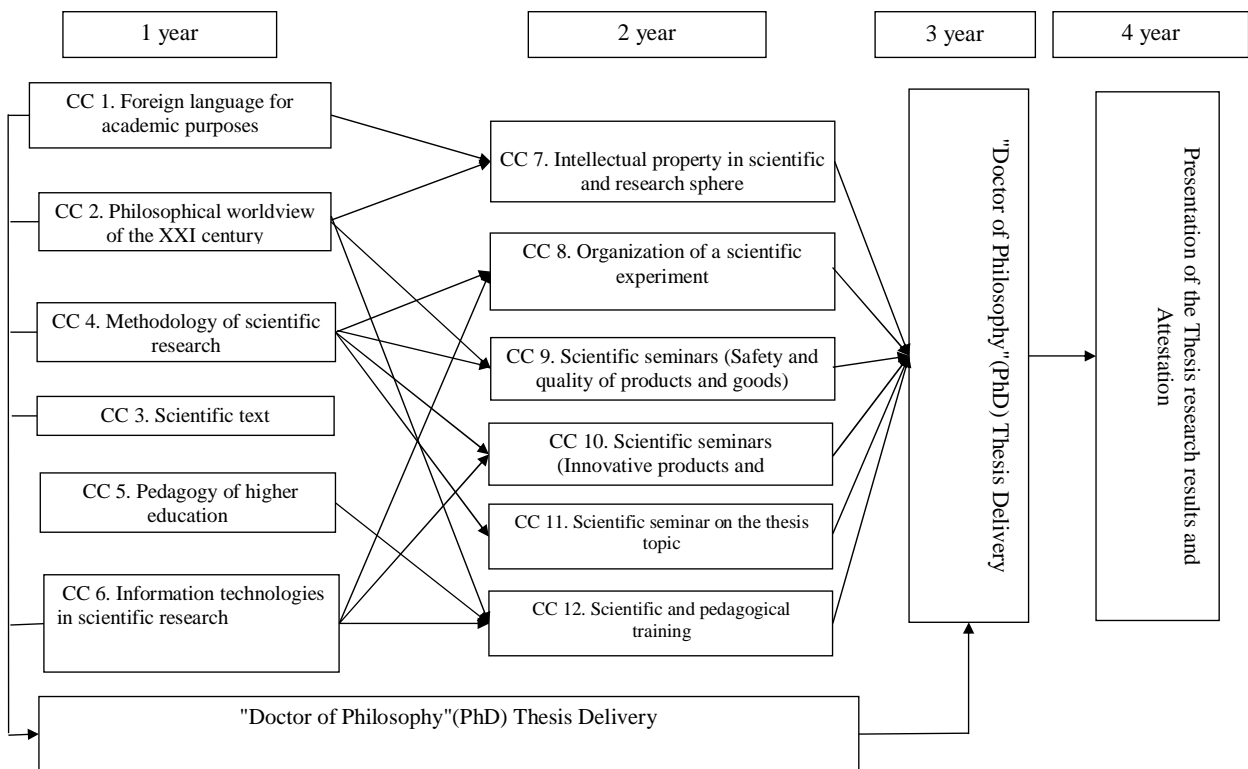
3.2. List of Educational and Scientific Programme (ESP) components and their logical sequence

3.2.1. List of Educational and Scientific Programme programme (ESP) components

Course code	Components of the educational and scientific programme	Amount of credits	Final control form
Compulsory Components (CCs)			
CC 1	Foreign language for academic purposes	3	Exam
CC 2	Philosophical worldview of the XXI century	3	Exam
CC 3	Scientific text	3	Exam
CC 4	Methodology of scientific research	3	Exam
CC 5	Pedagogy of higher education	3	Credit
CC 6	Information technologies in scientific research	3	Credit
CC 7	Intellectual property in scientific and research sphere	3	Credit
CC 8	Organization of a scientific experiment	3	Exam
CC 9	Scientific seminars (Safety and quality of products and goods)	3	Credit
CC 10	Scientific seminars (Innovative products and technologies)	3	Credit
CC 11	Scientific seminar on the thesis topic	3	Credit
CC 12	Scientific and pedagogical training	3	Credit
Total amount of compulsory components:		36	
Optional Components (OCs)			
OC 1	Public speaking	3	Credit
OC 2	Commercialization of intellectual property	3	Credit
OC 3	Mathematical modeling in scientific research	3	Credit
OC 4	Statistical methods of analysis and forecasting	3	Credit
OC 5	Food engineering	3	Credit
OC 6	Qualimetry of innovative goods	3	Credit
OC 7	Scientific seminars (Technology of products for special dietary purposes)	3	Credit
OC 8	Scientific seminars (Expert assessment of food products)	3	Credit
OC 9	Another educational component in agreement with the academic supervisor	3	Credit
Total amount of optional components:		12	
Total scope of the educational component of the educational and scientific programme		48	
Thesis delivery (scientific component)		156	

Presentation of the Thesis research results and Attestation	36
Total scope of the educational and scientific programme	240

3.2.2. Structural and logical scheme of the Educational and Scientific Programme (ESP)



3.3. Form of attestation of higher education applicants

Attestation of the applicants of the educational and scientific programme «Food Technology» of the third level of higher education is carried out in the form of a public thesis defense for obtaining the "Doctor of Philosophy"(PhD) degree of higher education and ends with the issuance of a document of the established model on awarding him/her the "Doctor of Philosophy"(PhD) degree.

Thesis for obtaining the "Doctor of Philosophy"(PhD) degree is an independent comprehensive study that proposes a solution to a complex problem in the field of food technology, and involves a deep rethinking of existing and the creation of new holistic knowledge and/or professional practice.

The volume of the main text of a thesis should be 6 – 7 author's pages.

Thesis should not contain academic plagiarism, falsification, fabrication.

3.4. Matrix of correspondence of programme competences to compulsory components of the Educational and Scientific Programme

	Educational component												Scientific compo
	CC1	CC2	CC3	CC4	CC5	CC6	CC7	CC8	CC9	CC10	CC11*	CC12	
GC 01		.		.									.
GC 02	.												.
GC 03	
GC 04
GC 05
SC 01			
SC 02			
SC 03			
SC 04
SC 05			
SC 06
SC 07							
SC 08			.				.						.

* Competences are formed depending on the chosen educational component

3.5. Matrix for providing Programme Learning Outcomes (PLOs) with compulsory components of the Educational and Scientific Programme

	Educational component												Scientific component
	CC1	CC2	CC3	CC4	CC5	CC6	CC7	CC8	CC9	CC10	CC11*	CC12	
PLO 01
PLO 02				.		.							.
PLO 03				.		.							.
PLO 04			
PLO 05	
PLO 06						
PLO 07		
PLO 08					.								.
PLO 09									.	.			.
PLO 10									.	.			.
PLO 11

* Learning outcomes are formed depending on the chosen educational component

3.6. Matrix of correspondence of programme competences to optional components of the Educational and Scientific Programme

	Educational component								
	OC1	OC2	OC3	OC4	OC5	OC6	OC7	OC8	OC9*
GC 01									
GC 02	.								
GC 03		
GC 04							.	.	
GC 05	.				.				
SC 01							.	.	
SC 02					.				
SC 03			
SC 04							.		
SC 05			
SC 06	.								
SC 07			.	.				.	
SC 08									

* Competences are formed depending on the chosen educational component

3.7. Matrix for providing Programme Learning Outcomes (PLOs) with optional components of the Educational and Scientific Programme

	Educational component								
	OC1	OC2	OC3	OC4	OC5	OC6	OC7	OC8	OC9*
PLO 01	.								
PLO 02			.						
PLO 03				.					
PLO 04			.	.	.				
PLO 05						.	.	.	
PLO 06		.			.				
PLO 07							.	.	
PLO 08	.								
PLO 09								.	
PLO 10							.		
PLO 11					

* Learning outcomes are formed depending on the chosen educational component

4. Information about educational components (Courses, scientific seminars)

4.1. Course title. FOREIGN LANGUAGE FOR ACADEMIC PURPOSES.

Type. Compulsory course.

Academic year. 2024/2025, I/II semesters.

Lecturer, academic degree, rank, position. Pryma V.V., PhD in Philology, Associate Professor of the Department of Foreign Philology and Translation, Soshko O.G., PhD in Philology, Associate Professor of the Department of Foreign Philology and Translation.

Learning outcomes. Acquisition of language competencies sufficient to present and discussion of the results of their scientific work in a foreign language in oral and written form, as well as a full understanding of foreign scientific and professional texts in the relevant specialty, in particular:

- be fluent in a foreign language for professional purposes in order to carry out professional and scientific communication, international cooperation, defending own scientific views;
- work with foreign sources of a professional nature;

- find, analyze and use information from various foreign professional sources in scientific activities, interpret the results of scientific research in a foreign language;
- communicate the results of research to colleagues in a clear and understandable way and participate in a critical dialogue and discussion of economics and foreign language management;
- translate foreign professional texts into the native language;
- listen to and take notes of lectures, prepare and conduct seminars in a foreign language;
- understand information during discussions of lectures, reports and to express own position during professional and scientific communication;
- demonstrate conscious mastery of spelling, lexical, grammatical and stylistic norms of a modern foreign language;
- use special terminology to solve professional problems.

Content. Personal and professional identification. Specifics of the scientific style of language, genres of scientific works. Technical and scientific articles and reports, term formation. Communication in a foreign language in a scientific and professional environment. Technologies for working with scientific (professional) texts, features of using a dictionary and reference literature.

Recommended sources and other learning resources/tools.

1. Латигіна А.Г. English of Economics for Post-Graduate Students / А.Г. Латигіна. – Київ : Київ. нац. торг.-екон. ун-т, 2019. – 224 с.
2. Brook-HartGuy. BusinessBenchmark / GuyBrook-Hart. – CambridgeUniversityPress, 2020. – 194 p.
3. De Chazal E., McCarter. Oxford English for Academic Purposes. Upper Intermediate, Oxford: Oxford University Press, 2020, 238p.
4. Swalesn J. AcademicWritingforGraduateStudents: EssentialSkillsandTasks / J. Swalesn, C. Feak. – MichiganUniversityPress, 2019. – 344 p.

Planned learning activities and teaching methods. Practical classes, independent work. Use of traditional and innovative methods and technologies of training: explanatory-illustrative, problem-searching, communicative methods; methods of interactive learning (presentation, discussion, situation modeling, computer technology).

Assessment methods:

- current control (oral examination, test control, verification of prepared presentations and abstracts)
- final control (exam).

Language of training. English, Ukrainian.

4.2. Course title. PHILOSOPHICAL WORLDVIEW OF THE XXI CENTURY.

Type. Compulsory course.

Academic year. 2024/2025, I/II semesters.

Lecturer, academic degree, rank, position. Morozov A.Y., Doctor of Sciences (Philosophy) , Professor , Professor of the Department of Philosophy, Sociology and Political Science.

Learning outcomes. Provide postgraduate students with modern systemic philosophical and scientific knowledge on the main problems of human development, society and civilization in the XXI century, to promote the formation of general theoretical and methodological foundations of scientific thinking and scientific knowledge, their practical use in the future professional activity of a scientist with the educational degree "Doctor of Philosophy".

Content. Philosophical worldview of the XXI century: theoretical concept. Socio-humanitarian discourse of the basic concepts of globalization. Modern global science as a post-classical type of scientific rationality. Methodology and metatheory of modern science: cognitive analysis. Philosophy of innovation in the theory and practice of post-industrial society. Socio-philosophical reflections of modern economics. Information challenge of post-industrial civilization. Anthropological imperatives in the development of philosophy in the XXI century. Global ideologies: contamination of divergence and convergence. Massification and aberration of modern global consciousness and culture.

Recommended sources and other learning resources/tools.

1. Після кінця історії: розмови з Френсісом Фукуямою. – Київ : Основи, 2021. – 310 с.
2. Тейлор Ч. Секулярна доба. Частина II / Ч. Тейлор. – Київ : Дух і Літера, 2020. – 400 с.
3. Франкл В. Людина в пошуках справжнього сенсу. – К.: Основи, 2021. – 290 с.

Planned learning activities and teaching methods. Lectures, seminars, practical classes, independent work.

Assessment methods:

- current control (questioning, colloquia, testing);
- final control (exam).

Knowledge and skills of postgraduate students are based on the results of current and final tests on a 100-point scale.

Language of training. Ukrainian.

4.3. Course title. SCIENTIFIC TEXT.

Type. Compulsory course.

Academic year. 2024/2025, I semester.

Lecturer, academic degree, rank, position.

Evgeniia Kyianytsia, PhD in Social Communication, Associate Professor of the Department of Journalism and Advertising.

Learning outcomes. Formation of a set of theoretical knowledge and practical skills on the methodology and techniques of compiling scientific texts.

Content. Scientific style of presenting information. Scientific text, its structure and composition rules. Classification of scientific texts and their titles. Possibilities of presentation of scientific research. The essence and types of scientific text editing. Basics of proofreading a scientific text. Rules for creating references and citations in various types of scientific text. International and Ukrainian standardization system for compiling bibliographic descriptions, its use in various types of scientific texts.

Recommended sources and other learning resources/tools.

1. Баган М.П. Культура української наукової мови: [посібник для самостійної роботи студентів]. Київ: Видавничий центр КНЛУ, 2022. 48 с.
2. Онуфрієнко Г. Науковий стиль української мови. Навчальний посібник з алгоритмічними приписами / Галина Онуфрієнко. Київ : Центр учбової літератури. 2021. 426 с.
3. Основи наукового мовлення: навчальний посібник: / С. А. Бронікова та ін.; за ред. І. М. Плотницької, Р. І. Ленди. Київ: Вид-во «Центр учбової літератури», 2022. 252 с.

Planned learning activities and teaching methods. Lectures, practical classes with the use of information technologies.

Assessment methods:

- current control (text analysis, writing scientific texts, testing, checking individual tasks, project defence);
- final control: exam.

Language of training. Ukrainian.

4.4. Course title. METHODOLOGY OF SCIENTIFIC RESEARCH.

Type. Compulsory course.

Academic year. 2024/2025, I semester.

Lecturer, academic degree, rank, position. Chugunov I.Y., Doctor of Economic Sciences, Professor, Head of the Finance Department.

Learning outcomes. The acquisition of theoretical knowledge and practical skills for independent detailed research, which offers the solution of a selected topical scientific task in a certain field of knowledge, the level

of which corresponds to the existing qualification requirements, by the candidates for a higher education degree "Doctor of Philosophy".

Content. The essence of the qualifying scientific work for obtaining the degree of higher education "Doctor of Philosophy" and the requirements for its scientific level. The concept of scientific research methodology, its main types and structural elements. Methods of scientific research. Methodological principles of the formation of information support for scientific research. Methodological approaches to the substantiation of individual scientific research results, their design and presentation. Preparation and implementation of scientific projects. Participation in international grants.

Recommended sources and other learning resources/tools.

1. Бруханський Р. Ф. *Методологія наукових досліджень: навч. посіб.* Західноукр. нац. ун-т. Тернопіль : Осадца Ю. В., 2022. 207 с.
2. *Методологія наукових досліджень у фінансах : навч.-метод. посіб.* / О. М. Віленчук, Д. І. Дема, Л. В. Недільська ; Поліс. нац. ун-т. Житомир : Поліс. нац. ун-т, 2022. 131 с.
3. Медвідь В. *Методологія та організація наукових досліджень (у структурно-логічних схемах і таблицях) : навч. посіб.* / В. Медвідь, Ю. Данько, І. Кобилянська. Київ : Університет. кн., 2020. 219 с.

Planned learning activities and teaching methods. A combination of traditional and non-traditional teaching methods with the use of innovative technologies:

- lectures (overview / thematic / problem / lecture-consultation / dual);
- seminars/practical/laboratory classes
(training/presentation/discussion/imitation/simulation of situations/exercises/case study method, work in small groups/other).

Assessment methods:

- current control (evaluation of participation in the discussion; oral / written questioning; verification of the prepared essay / digest / bibliographic review / scientific article / synopsis / presentation / calculation and analytical work, etc.);
- final control (exam).

Language of training. Ukrainian.

4.5. Course title. INFORMATION TECHNOLOGIES IN SCIENTIFIC RESEARCH.

Type. Compulsory course.

Academic year. 2024/2025, I semester.

Lecturer, academic degree, rank, position. Tsyutsyura S.V., Doctor of Technical Sciences, Professor, Professor of the Department of Software Engineering and Cybersecurity.

Learning outcomes. The formation of post-graduate students' informational and communicative competencies, related to the understanding of the essence and possibilities of the modern information environment regarding the implementation of scientific research and scientific-pedagogical activities, the use of information technologies and systems in scientific research for the purposeful search and systematization of scientific information, planning of experiments, processing and data analysis using software tools, methods of economic and mathematical modeling, database technologies, use of computer networks and Internet scientific and educational resources.

Content. The essence and possibilities of modern information technologies in solving tasks of professional and scientific activity. Regulatory and legal bases of the use of information technologies. Technical and software means of implementing information processes. Information technology means of data structuring and organization. Database technologies. Information technologies in research work. Processing of scientific data using special packages of application programs. Computer tools for working with text and graphic information. Information technologies for processing the results of scientific research. Application of network information technologies and telecommunications in scientific research.

Recommended sources and other learning resources/tools.

1. Артем'єва І. О. Напрями розвитку системи статистичного вимірювання параметрів цифрової економіки / І. О. Артем'єва // Статистика України. – Київ, 2020. – № 1. – С. 66–74.
2. Близнюк М. Основи вивчення інформаційних технологій: теоретичні і методичні засади / М. Близнюк // Вища шк. – Київ, 2019. – № 12. – С. 47–57.
3. Гриценко В. І. Гармонізація національних і міжнародних стандартів впровадження технологій цифрової економіки / В. І. Гриценко, Л. І. Бажан // Control systems & computers. – 2020. – № 3. – С. 3–14.
4. Паєтко Т. В. Діджиталізація урядової бюрократії в європейських країнах: корупційні ризики та антикорупційні ефекти / Т. В. Паєтко, В. М. Федосов // Фінанси України. – Київ : Академія фінансового управління, 2020. – № 8. – С. 86–102.

Planned learning activities and teaching methods. A combination of traditional and non-traditional teaching methods with the use of innovative technologies: lectures (thematic, problem-based) using multimedia tools;

practical works (traditional, creative tasks); application of distance learning elements.

Assessment methods:

- current control (questioning, testing);
- final control (credit).

Language of training. Ukrainian.

4.6. Course title. PEDAGOGY OF HIGHER EDUCATION.

Type. Compulsory course.

Academic year. 2024/2025, II semester.

Lecturer, academic degree, rank, position. Golovnia Y.I., Candidate of Economic Sciences, Associate Professor, Associate Professor of the Department of Public Management and Administration.

Learning outcomes. Formation of postgraduate students' knowledge about the content and directions of higher education reform; theoretical, organizational-procedural, methodical principles of the process of education and upbringing of student youth, their scientific and professional training in accordance with state and European standards, the needs of society.

Content. The system of higher education in Ukraine and abroad. Management of the educational process of higher education. Didactic bases of pedagogical process. Methods and forms of organization of the educational process in a higher education institution. Innovative and information technologies in higher education. The educational process in higher education institution as a way to implement the tasks of professional training of students. Pedagogical skill of a teacher of a higher education institution. Pedagogical practice as a factor in the professional development of the future teacher.

Recommended sources and other learning resources/tools.

1. Педагогіка вищої школи : Підручник для здобувачів другого рівня вищої освіти педагогічних університетів / С.Г. Немченко, В.В. Крижко, І.Ф. Шумілова, О.М. Старокожко, О.Б. Голік. Бердянськ: БДПУ, 2020. 517 с.
2. Марцева Л.А. Педагогіка і психологія вищої школи : навч. посіб. / Л.А. Марцева. – Електронні дані. – Житомир: Державний університет «Житомирська політехніка», 2022. – 150 с.
3. Освіта України в умовах воєнного стану. Інноваційна та проєктна діяльність: Науково-методичний збірник/ за загальною ред. С. М. Шкарлета. Київ-Чернівці «Букрек». 2022. 140 с.

Planned learning activities and teaching methods. Problem and thematic lectures, seminars with the use of presentations, discussions, work in small groups, etc.

Assessment methods:

- final control (credit).

Language of training. Ukrainian.

4.7. Course title. INTELLECTUAL PROPERTY IN SCIENTIFIC AND RESEARCH SPHERE.

Type. Compulsory course.

Academic year. 2025/2026, I semester.

Lecturer, academic degree, rank, position. Hurzhiy A.V., Candidate of Juridical Sciences, Associate Professor, Associate Professor of the Department of Administrative, Financial and Information Law.

Learning outcomes. The discipline "Intellectual Property in the Research Sphere", as a mandatory component of the educational program, provides students with general and professional competencies to achieve program learning outcomes in relevant educational and professional programs: the formation of in-depth knowledge and comprehensive understanding of international law, national legal system, legal and economic policy of the state and leading international institutions; ability to apply legal knowledge and implement the results of scientific research in rule-making, law enforcement, teaching and other professional activities.

Content. The first part of the discipline is devoted to the study of the concept of intellectual activity and its result in the research field. The specifics and legal nature of the results of intellectual activity, as well as the system of legislation of Ukraine in this area are studied. In the second part, much attention is paid to the study of copyright in research, namely the emergence of legal relations between co-authors and the conclusion of agreements on the right to use copyright. Copyright on collected volumes and other compiled works is considered in detail. The procedure of registration of objects of copyright and related rights is studied. The third part is devoted to offenses in the field of copyright and related rights. Issues such as plagiarism and piracy are considered in detail. Academic integrity in research. The order of observance of academic integrity by students. The last section of the discipline is devoted to the consideration of legal liability for intellectual property offenses in the research field.

Recommended sources and other learning resources/tools.

1. Право інтелектуальної власності: підручник / за заг.ред. О.І.Харитонова. Дмитришин В.С. Київ: Юрінком Інтер, 2023. – 540 с.

2. Інтелектуальна власність: підручник. Л.М. Попова., А.В. Хромов, І.В. Шуба: Харків, «Федорко», 2021, с. – 262.

3. Інтелектуальна власність та патентознавство: підручник / Н. О. Білоусова, Н. В. Гаврушкевич, та ін. : за ред. проф. П. М. Цибульова та доц. А. С. Ромашко. Київ: КПІ ім. Ігоря Сікорського, Вид-во «Політехніка», 2021. – 374с.

Planned learning activities and teaching methods. A combination of traditional and non-traditional teaching methods with the use of innovative technologies: lectures (review / thematic); seminars / practical classes.

Assessment methods:

- current control (testing, oral / written questioning, solving legal problems, etc.);
- final control (credit).

Language of training. Ukrainian.

4.8. Course title. ORGANIZATION OF A SCIENTIFIC EXPERIMENT.

Type. Compulsory course.

Academic year. 2025/2026, I semester.

Lecturer, academic degree, rank, position. Victoriia Gnitsevych, Doctor of Sciences (Food Products Technology), Professor of the Department of Restaurant and Craft Technologies.

Learning outcomes. Know the functions of scientific experiments, classification and characteristics of experiments; organization of the experimenter's workplace; rules for working on laboratory equipment; peculiarities of research in the field of food technology; information technologies and methods of processing and analyzing experimental data.

Content. The essence, purpose, functions of a scientific experiment: the experiment as a method of empirical research. Purpose, areas of application, advantages of a scientific experiment. Classification and characteristics of experiments. Methods of scientific experiment. Workplace of the experimenter: characteristics of the workplace of the experimenter. Characteristics of the workspace. Organization of a scientific experiment: organization of scientific research, scientific research process. Scientific direction, scientific problem, scientific topic, requirements for them. Features of technological research. Main areas of technological research. Basic methods of technological research.

Recommended sources and other learning resources/tools.

1. Методологія та організація наукових досліджень: курс лекцій / Н. В. Рашкевич, Ю. А. Отрош. – Х.: НУЦЗУ, 2021. – 124 с.
2. Методологія та організація наукових досліджень: навчальний посібник / Н.В. Рашкевич, Ю.А. Отрош. Харків, 2022. 291 с.

3. Полумбрик О.М. Фізико-хімічні методи дослідження якості харчових продуктів : навч. посіб. / О.М. Полумбрик, І.І. Осипенкова, Є.О. Котляр ; Черкас. держ. технол. ун-т, Одес. нац. акад. харч. технологій. – Черкаси ; Одеса ; Київ : Логос, 2020. – 487 с.

Planned learning activities and teaching methods. Lectures, practical classes with the use of information technologies.

Assessment methods:

- current control (questioning; verification of the prepared presentation, individual creative task);
- final control (exam).

Language of training. Ukrainian.

4.9. Course title. SAFETY AND QUALITY OF PRODUCTS AND GOODS.

Type. Compulsory course (scientific seminar).

Academic year. 2025/2026, II semester.

Lecturer, academic degree, rank, position. Victoriia Gnitsevych, Doctor of Sciences (Food Products Technology), Professor of the Department of Restaurant and Craft Technologies; Svitlana Belinska, Doctor of Sciences (Commodity Science of Food Products), Professor of the Department of Commodity Science Pharmacy.

Content. Quality and safety of nutrition of the population. Classification of factors affecting human health. Social and hygienic monitoring of contamination of food products and food raw materials. International standards of the food safety management system based on HACCP (Hazard Analysis and Critical Control Point) principles. Legislative regulation of food safety and quality in Ukraine and the world. Global problems of food safety. EU Directive 178/2002 “Establishing the general principles and requirements of food legislation established by the European Food Safety Authority”. Codex Alimentarius standards. UNECE (United Nations Economic Commission for Europe) standards. Legislation of Ukraine in the sphere of circulation of food products. Organization of food safety control in Ukraine and the EU. FAO (Food and Agriculture Organization) guidelines “Assuring food safety and quality: Guidelines for strengthening national food control system”. Compliance of the domestic food safety control system with CAC/GL 53-2003 “Guidelines on the judgment of equivalence of sanitary measures associated with food inspection and certification systems”.

Recommended sources and other learning resources/tools.

1. Про основні принципи та вимоги до безпечності та якості харчових продуктів : Закон України від 23.12.1997 № 771/97-ВР.
2. Codex Alimentarius. Food Hygiene Basic Texts. – Rome: Joint FAO/WHO Food Standards Programme CODEX ALIMENTARIUS COMMISSION, 2003.
3. FAO guidelines «Assuring food safety and quality: Guidelines for strengthening national food control system».
4. CAC/GL 53-2003 «Guidelines on the judgement of equivalence of sanitary measures associated with food inspection and certification systems».
5. Regulation 178/2002 «Встановлення загальних принципів і вимог харчового законодавства, створених Європейським органом контролю безпеки харчових продуктів».

4.10. Course title. INNOVATIVE TECHNOLOGIES AND PRODUCTS.

Type. Compulsory course (scientific seminar).

Academic year. 2024/2025, II semester.

Lecturer, academic degree, rank, position. Victoriia Gnitsevych, Doctor of Sciences (Food Products Technology), Professor of the Department of Restaurant and Craft Technologies; Svitlana Belinska, Doctor of Sciences (Commodity Science of Food Products), Professor of the Department of Commodity Science Pharmacy.

Content. Goods and innovations: concepts, signs, classification. Innovation as a factor of competitiveness of food products. Criteria for evaluating the commercial prospects of innovative products. Scientific principles of forming an assortment of innovative food products. Planning and organization of creation of innovative food products. Life cycle and quality forecasting of innovative food products. Management of the range of innovative food products. Justification of directions for food fortification. Methods of regulating the composition and structure of food products. Scientific principles of designing food products. The role of innovations in ensuring the efficiency of the functioning of the logistics chain "food industry - restaurant business". The main technological innovations, the introduction of which makes it possible to achieve effective functioning of the "food industry - HoReCa" chain.

Recommended sources and other learning resources/tools.

1. Інноваційні напрями розвитку харчових технологій : колективна монографія [Електронний ресурс] / за загальн. ред. канд. техн. наук, доц. Н. А. Нагурної ; М-во освіти і науки України, Черкас. держ. технол. ун-т. – Черкаси : ЧДТУ, 2020. – 154 с.

2. Берник І. М., Новгородська Н. В., Соломон А. М., Овсієнко С. М., Бондар М. М. Інноваційні технології харчових виробництв: монографія. Вінниця: Видавець ФОП Кушнір Ю. В., 2022. 300 с.
3. Інноваційні та ресурсозберігаючі технології харчових виробництв : матеріали Всеукраїн. наук.-практ. конф. – Полтава, ПДАУ, 2021. – 163 с.

4.11. Course title. PUBLIC SPEAKING.

Type. Elective course.

Academic year. 2024/2026.

Lecturer, academic degree, rank, position. Razitskii V. I., Candidate of Historical Sciences, Associate Professor, Associate Professor of the Department of Philosophy, Sociology and Political Science.

Learning outcomes. Ability to prove the results of research and innovation and publicly present them, discuss them and discuss with the scientific and professional community. Ability to apply the acquired communicative competencies and ethical guidelines for scientific discussions and to find solutions to current problems of philosophy.

Content. Oratory as a component of personality culture. The concept of public speaking. Functions of eloquence. Oratory in the humanities. Goals and objectives of public speaking. Formation of a positive professional image by means of language. The main stages of the origin and development of public speaking. Fundamentals of oratory skills of the teacher. Public speech of the teacher. Development of eloquence in Ukraine. Speaker and audience. Public speech. Figures of public speaking. Fundamentals of speech technique in public speaking. Evidence and justification in a public speech.

Recommended sources and other learning resources/tools.

1. Борґ Дж. Мистецтво говорити. – Фабула, 2020. – 304 с.
2. Молдован В. Судова риторика. – Київ : Юрінком Інтер, 2020. – 496 с.
3. Сучасні технології нейролінгвістичного програмування / О. Черненко, С. Гнатюк, В. Петрик, В. Гурєєв, В. Курганевич. – Київ : Центр навчальної літератури, 2021. – 200 с.
4. Marcus Alexander. The Public Speaking Bible. – Marcus Alexander Publishing, 2021. – 210 p.

Planned learning activities and teaching methods.

Lectures, seminars, practical tasks, independent work.

Assessment methods:

- current control (questioning, colloquia, testing);
- final control (credit).

Language of training. Ukrainian.

4.12. Course title. COMMERCIALIZATION OF INTELLECTUAL PROPERTY.

Type. Elective course.

Academic year. 2024/2026.

Lecturer, academic degree, rank, position. Zhukovska V.M., Doctor of Economic Sciences, Associate Professor, Professor of the Department of Management.

Learning outcomes. The development of theoretical knowledge and practical skills in higher education applicants for the degree of Doctor of Philosophy regarding the mechanism and organizational and legal provision of commercialization of the results of scientific research and development, the application of specific methods and tools of commercialization, acquisition of professional competences in planning, organization and control of commercialization projects.

Content. The essence and mechanism of commercialization of the results of scientific research and development as objects of intellectual property law. Methods of commercialization of the results of scientific research and development. Stages and forms of commercialization of the results of scientific research. Objects of industrial property and methods of their commercialization. Compilation and submission of an application for an invention and utility model. Technological audit of the object of commercialization. Valuation of intellectual property rights. Licensing as a form of commercialization of the results of scientific research and development. Principles and methods of license price calculation. Marketing of the results of scientific research and development. Commercialization of objects using artificial intelligence. Transfer at the company.

Recommended sources and other learning resources/tools.

1. Комерціалізація інновацій: Конспект лекцій [Електронний ресурс] : навч. посіб. для студ. спеціальності 073 «Менеджмент», освітньо-професійної програми «Менеджмент інвестицій та інновацій» / КПІ ім. Ігоря Сікорського ; уклад.: С.О.Пермінова. – Електронні текстові дані (1 файл: 287 КБ). Київ : КПІ ім. Ігоря Сікорського. 2020.127 с.
2. Коваль І. Ф. Комерціалізація прав інтелектуальної власності : навч. Посіб. Донец. нац. ун-т ім. Василя Стуса, Наук.-дослід. ін-т інтелект. власності. Київ : Юрінком Інтер, 2018. 271 с.

3. Остапович Г. М., Стороженко О. М., Уманців Г. В., Фоміна О. В. Інтелектуальна власність: навч. посіб.. К.: КНТЕУ, 2022. 456 с.
4. Сагер Л. Ю., Сигиди Л. О. Комерціалізація інновацій: захист інтелектуального капіталу, маркетинг та комунікації : монографія. Суми: Сумський державний університет, 2022. 363 с.
5. Мікульонок І. О. М. Інтелектуальна власність та патентознавство: підручник. 3-тє вид., переробл. та доповн. Київ: КПІ ім. Ігоря Сікорського, Вид-во «Політехніка», 2019. – 244 с.
6. Your Guide to IP Commercialization. The European IP helpdesk. 2019. – URL: <https://www.iprhelpdesk.eu/sites/default/files/2018-12/european-ipr-helpdesk-your-guide-to-ip-commercialisation.pdf>

Planned learning activities and teaching methods.

A combination of traditional and non-traditional teaching methods with the use of innovative technologies: problem lectures, case study method, practical tasks with the use of information technologies, presentations, solving computational and analytical problems, independent work of students.

Assessment methods:

- current control (testing, verification of individual tasks, situational exercises, speaking in a discussion, solving analytical and calculation tasks, project defence).

Language of training. Ukrainian.

4.13. Course title. MATHEMATICAL MODELING IN SCIENTIFIC RESEARCH.

Type. Elective course.

Academic year. 2024/2026.

Lecturer, academic degree, rank, position. Roskladka A.A., Doctor of Economics, Professor, Head of the Department of Digital Economy and System Analysis.

Learning outcomes. Formation of a system of knowledge on methodology and tools for building and using various types of mathematical models during scientific research.

Content. Conceptual aspects of the application of mathematical modeling in scientific activity. Optimization models. Mathematical forecasting models. Study of the quality of mathematical models. Alternative ranking methods. Expert modeling methods in scientific research. Mathematical models of decision-making under conditions of uncertainty.

Recommended sources and other learning resources/tools.

1. Добротвор І.Г. Системний аналіз : навч. посіб. / І.Г. Добротвор, А.О. Саченко, Л. М. Буяк. – Тернопіль : ТНЕУ, 2019. – 170 с.

2. Шувалова Ю.С. Економіко-математичні моделі задач лінійного програмування. Завдання та методичні вказівки до виконання індивідуальних завдань з дисципліни «Оптимізаційні методи і моделі» / Ю.С. Шувалова, О.О. Гончарова. – Харків : УкрДУЗТ, 2019. – 62 с.
3. Tovey C. A. Linear Optimization and Duality. A modern Exposition / Craig A. Tovey. – Chapman and Hall/CRC, 2021. – 585 p.
4. Kulakowski K. Understanding the Analytic Hierarchy Process / Konrad Kulakowski. – Chapman and Hall/CRC, 2020. – 262 p.
5. Bhunia A. K., Sahoo L., Shaikh A. A. Advanced Optimization and Operations Research / Asoke Kumar Bhunia, Laxminarayan Sahoo, Ali Akbar Shaikh. – Singapore : Springer Singapore Pte. Limited, 2020. – 626 p.

Planned learning activities and teaching methods. A combination of traditional and non-traditional teaching methods with the use of innovative technologies: lectures (thematic, problem-based); practical classes (traditional, work in small groups, interactive online technologies).

Assessment methods:

- current control (testing, oral and written questioning, verification of practical and independent works);
- module control;
- final control (credit).

Language of training. Ukrainian.

4.14. Course title. STATISTICAL METHODS OF ANALYSIS AND FORECASTING.

Type. Elective course.

Academic year. 2024/2026.

Lecturer, academic degree, rank, position. Motoryn R.M., Doctor of Sciences in Economics, Professor of the Department of Statistics and Econometrics.

Learning outcomes. Acquiring systemic knowledge and practical skills regarding the statistical analysis of the results of mass processes, the creation of mathematical and statistical models of the studied phenomena, the analysis of the correspondence of the created models to the studied processes, forecasting the development of processes, classification of objects, measurement of complex socio-economic categories, which will allow testing the proposed scientific hypotheses and justify the obtained scientific conclusions.

Content. Methodological bases of statistical analysis and forecasting. Statistical estimation of parameters of mass processes and bases of the statistical conclusion. Statistical testing of hypotheses. Statistical modeling

of the relationship between indicators and experimental results. Analysis of one-dimensional time series and their forecasting. Analysis and modeling of time series relationships. Panel data models. Statistical models of classification in scientific activity. Statistical models of latent variables in scientific research.

Recommended sources and other learning resources/tools.

1. Диха М. В. Економетрія / М.В. Диха, В. С. Мороз. – Київ : Центр навч. літ., 2019. – 206 с.
2. Козменко О. В. Економіко-математичні методи та моделі (Економетрика) / О.В. Козменко, О.В. Кузменко. – Київ : Унів. кн., 2019. – 406 с.
3. Статистика : підручник / С.І. Пирожков, В.В. Рязанцева, Р.М. Моторин та ін. – Київ : Київ. нац. торг.-екон. у-т, 2020. – 328 с.
4. Oswald F, Viers V, Villedieu P, Kennedy G (2020). Introduction to Econometrics with R. SciencesPo Department of Economics, Paris, France. [Electronic resource]. – Available at: [https:// scpoecon. github. io/ScPoEconometrics/](https://scpoecon.github.io/ScPoEconometrics/)
5. Hyndman, R.J., & Athanasopoulos, G. (2021) *Forecasting: principles and practice*, 2nd edition, OTexts: Melbourne, Australia. [Electronic resource]. – Available at: [OTexts.com/fpp2](https://otexts.com/fpp2).
6. Oswald F, Viers V, Villedieu P, Kennedy G (2020). Introduction to Econometrics with R. SciencesPo Department of Economics, Paris, France. [Electronic resource]. – Available at: [https:// scpoecon. github. io/ScPoEconometrics/](https://scpoecon.github.io/ScPoEconometrics/)
7. Інтернет-сайт середовища програмування і пакетів статистичних програм і графіки R. – Режим доступу: <http://www.r-project.org/>

Planned learning activities and teaching methods.

Lectures, laboratory works based on real data using freely available programming environment and packages of statistical programs and R graphics.

Assessment methods:

- current control (tests, verification of laboratory work).
- final control (credit).

Language of training. Ukrainian.

4.15. Course title. FOOD ENGINEERING.

Type. Elective course.

Academic year. 2024/2026.

Lecturer, academic degree, rank, position. Tetiana Yudina, Doctor of Sciences (Food Technology), Professor of the Department of Restaurant and Craft Technologies.

Learning outcomes. Formation of postgraduate students' system of knowledge regarding the application of the principles of development of technical processes of food technology engineering, methods of control and evaluation of the quality level of new developments.

Content. Food engineering: basic terms and concepts. Functional structure of food engineering. Interrelationship of engineering, design, project management. Types of engineering services. Complex engineering of food products: basic, technological, general; special services. Basic services related to the organization of the production process of multi-component food systems; modeling of food products in accordance with the needs of consumers, producers, directions of state policy in the field of food. Technological engineering of innovative food production processes. Technical support of the technological process. TRIZ-engineering. The theory of solving inventive problems. Engineering developments. Methodical tools for evaluating the effectiveness of the implementation of developed technologies. Strategy and implementation of a business project.

Recommended sources and other learning resources/tools.

1. Karen Gadd. TRIZ for engineers: enabling inventive problem solving – Technical Innovation Ctr, 2020. – 312 p.
2. H. Haripriya, Pragma Kumar. Micronutrients and Macronutrients in Food Engineering. Apple Academic Press. 2024. P. 14
3. Інноваційний інжиніринг м'ясопереробних підприємств [Електронний ресурс] : опорний конспект лекцій / Т. М. Головка, Електрон. дані. – Х. : ДБТУ, 2023. – 85 с.

Planned learning activities and teaching methods. Lectures and practical classes with the use of problem situations.

Assessment methods:

- current control (preparation and defense of a presentation on a given topic);
- final control (credit).

Language of training. Ukrainian.

4.16. Course title. QUALIMETRY OF INNOVATIVE PRODUCTS.

Type. Elective course.

Academic year. 2024/2026.

Lecturer, academic degree, rank, position. Olena Sydorenko, Doctor of Sciences (Commodity Science of Food Products), Professor, Head of the Department of Commodity Science and Pharmacy.

Learning outcomes. Formation of a knowledge system regarding methodological and scientific-practical training of specialists to determine

the competitive advantages of innovative food products based on the quantitative assessment of their consumption properties and quality.

Content. Object, subject and structure of qualimetry. Terminology. Theoretical and applied qualimetry. Conceptual provisions of modern qualimetry. Qualitology. Basic concepts of qualimetry. Methodology of qualitative research in the field of food technologies. The essence, general concepts and criteria for defining a new product. Stages of development of new products. New product testing. Classification features of the new product. Qualimetry of product innovation. The degree of novelty of the product. Product novelty levels. Methods of quality measurement of innovative products in the field of food technologies. Differential and complex methods. Product rating. Meaning, essence and principles of forecasting the quality of innovative food products. Modeling as a forecasting tool. Methods of integral qualitative assessment of the level of competitiveness of innovative products. Selection of positioning criteria and indicators. Building a perception map.

Recommended sources and other learning resources/tools.

1. Rogers, M The Definition and Measurement of Innovation. – Режим доступу: <https://melbourneinstitute.unimelb.edu.au/downloads>
2. Metrology and Quality Assurance in Industry 4.0: Jody Muelaner. An Introduction to Metrology and Quality in Manufacturing [Електронний ресурс]. – Режим доступу : <https://www.engineering.com/AdvancedManufacturing/ArticleID/14896/An-Introductionto-Metrology-and-Quality-in-Manufacturing.aspx>
3. Morais, Marcos de Oliveira, ets. Innovation quality: discussion and a model for measurement. INDEPENDENT JOURNAL OF MANAGEMENT & PRODUCTION (IJM&P) v. 10, n. 6, November - December 2019. – Режим доступу : <file:///C:/Users/User/Downloads/Dialnet-InnovationQuality-7169693.pdf>

Planned learning activities and teaching methods. Lectures and practical classes with the use of problem situations.

Assessment methods:

- current control (preparation and defense of a presentation on a given topic);
- final control (credit).

Language of training. Ukrainian.

4.17. Course title. TECHNOLOGY OF PRODUCTS FOR SPECIAL DIETARY PURPOSES.

Type. Elective course (scientific seminar).

Academic year. 2024/2026.

Lecturer, academic degree, rank, position. Dina Fedorova, Doctor of Sciences (Food Technology) Professor of the Department of Restaurant and Craft Technologies.

Content. Scientific basis of health and dietary nutrition. Psychosocial aspects of human nutrition and prospects for the development of nutrition science. Scientific substantiation of the principles of drawing up food rations for healthy and sick people. Health nutrition and normalization of microecological conditions. Correction of population nutrition. Anti-alimentary factors and dietary supplements in the composition of special and dietary products: modern views of nutricology. Scientific principles of designing the composition of special and dietary food products. Directions of development of technologies of special and dietary food products. The main stages and algorithm of designing food products with a given composition. Scientific and practical approaches to the engineering of special and dietary food products. Peculiarities of designing food products to meet the needs of military personnel in extreme conditions.

Recommended sources and other learning resources/tools.

1. Оздоровче харчування: навч. посіб. / за ред. П.О. Карпенка. – Київ : Київ. нац. торг.-екон. ун-т, 2019. – 627 с.
2. Food Processing and Preservation Technology Advances, Methods, and Applications/[Megh R. Goyal](#), [Santosh K. Mishra](#) [Preeti Birwal](#). CRC Press, 2022. – 314 p.
3. [National Institutes of Health](#) [Електронний ресурс]. – Available from: <https://ods.od.nih.gov>.

Planned learning activities and teaching methods. Seminar classes.

Assessment methods:

- current control (questioning; verification of prepared presentation, individual creative task);
- final control (credit).

Language of training. Ukrainian.

4.18. Course title. EXPERT EVALUATION OF FOOD PRODUCTS.

Type. Elective course (scientific seminar).

Academic year. 2024/2026.

Lecturer, academic degree, rank, position. Olena Sydorenko, Doctor of Sciences (Commodity Science of Food Products), Professor, Head of the Department of Commodity Science and Pharmacy.

Content. Organization of expert evaluation of products in the field of food technologies. Factors affecting the accuracy of expert evaluation of food products. Evaluation methods and criteria. Peculiarities of expert assessment of individual groups of food products. Methods of expert evaluation of products in the field of food technology. Criterion classification of methods of expert assessment. Systematics of methods of expert assessment. Consumer methods of expert evaluation. Analytical methods of expert assessment. Comparative analysis of expert evaluation methods.

Recommended sources and other learning resources/tools.

1. KS Q ISO 6564:2013 Sensory analysis. – Methodology. – Flavour profile methods.
2. [Analysis of sensory properties in foods: A special issue / E. Chambers.](#)– 2019.
3. [Food sensory evaluation throughout the time / A. Vilela.](#) – História da Ciência e Ensino: construindo interfaces, 2019.
4. Regulation 882/2004 «Загальні правила офіційного контролю безпечності харчових продуктів та кормів».

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