ID-47856

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

National Aerospace University
"Kharkiv Aviation Institute"

APPROVED
by the Academic Council
National Aerospace University
"Kharkiv Aviation Institute"
«23» March 2016, minutes No. 8

EDUCATIONAL AND SCIENTIFIC PROGRAMME

ECONOMICS

Level of higher education – third (educational and scientific)

Specialty 051 ECONOMICS

Field of knowledge 05 Social and Behavioural Sciences

Qualification: Doctor of Philosophy in Economics

(as amended in accordance with:
decision of the KhAI Academic Council, minutes No. 9 of 20.03.2019;
decision of the KhAI Academic Council, minutes No. 12 of 24.06.2020;
decision of Scientific and Methodological Commission 3 (SMC 3), minutes No. 1 of 31.08.2020;
decision of the KhAI Academic Council, minutes No. 9 of 28.04.2021;
decision of the KhAI Academic Council, minutes No. 01 of 26.08.2022)
decision of the KhAI Academic Council, minutes No. 04 of 25.11.2022)

The educational and scientific programme comes into effect
from "01» September 2023

Rector
National Aerospace University
"Kharkiv Aviation Institute"

_____ Mykola NECHYPORUK
Order No. 225 of 28.11.2022

Kharkiv 2022

APPROVAL SHEET

of the Educational and Scientific Programme "Economics"

Level of higher education	third (educational and scientific) level
Field of knowledge	05 "Social and Behavioural Sciences"
Specialty	051 "Economics"
Educational qualification	Doctor of Philosophy in Economics

AGREED:

Vice-Rector for Research – V.V. Pavlikov

Acting Vice-Rector for Academic Affairs – A.M. Humennyi

ENDORSED:

Acting Head of the Scientific Society of Students, PhD Students, Doctoral Candidates and Young Scientists – S.S. Zhyla

Head of the Postgraduate and Doctoral Studies Department – V.B. Selevko

RECOMMENDED:

Guarantor of the Educational and Scientific Programme – I.O. Davydova

FOREWORD

The Educational and Scientific Programme (ESP) of the third (educational and scientific) level of Doctor of Philosophy training in Specialty 051 "Economics" has been updated in connection with:

– the updating of the content of the programme description (decision of the KhAI Academic Council, minutes No. 9 of 20.03.2019);

– the updating of the content of the programme description (decision of the KhAI Academic Council, minutes No. 12 of 24.06.2020);

– the amendment of the National Qualifications Framework (Resolution of the Cabinet of Ministers of Ukraine No. 519 of 25 June 2020) (approved by decision of Scientific and Methodological Commission 3 (SMC 3), minutes No. 1 of 31.08.2020);

– the updating of the content of the programme description (decision of the KhAI Academic Council, minutes No. 9 of 28.04.2021);

– amendments in accordance with the Higher Education Standard for Specialty 051 "Economics" at the third (educational and scientific) level of higher education (Order of the Ministry of Education and Science of Ukraine No. 424 of 10.05.2022) (approved by decision of the KhAI Academic Council, minutes No. 01 of 26.08.2022);

– the modernisation of the structure of the elective component of the programme and the updating of the content of its description (approved by decision of the KhAI Academic Council, minutes No. 04 of 25.11.2022).

The Educational and Scientific Programme "Economics" was updated by the ESP support group of National Aerospace University "Kharkiv Aviation Institute" consisting of:

1	Group leader (guarantor):	I.O. Davydova	– Doctor of Economic Sciences, Professor, Professor of the Department of Economics, Marketing and International Economic Relations
2	Group members	D.S. Revenko	– Doctor of Economic Sciences, Associate Professor, Professor of the Department of Economics, Marketing and International Economic Relations
3		V.V. Lebedchenko	– PhD in Economics, Associate Professor of the Department of Economics, Marketing and International Economic Relations

This educational and scientific programme may not be reproduced, copied or distributed, in whole or in part, without the permission of M. Ye. Zhukovsky National Aerospace University "Kharkiv Aviation Institute"

INTRODUCTION

In accordance with the Law of Ukraine on Amendments Concerning the Improvement of Educational Activities in Higher Education No. 392-IX of 18.12.2019, and Article 1 "Basic Terms and Their Definitions" of the Law of Ukraine "On Higher Education" No. 1556-VII of 01.07.2014 (as amended), an educational and scientific programme is a unified set of educational components (courses, individual assignments, practical training, assessment activities, etc.) aimed at achieving the learning outcomes stipulated by the programme, which entitles the holder to a specified educational, or educational and professional, qualification(s).

The educational and scientific programme defines the required level of education of persons who may begin studies under the programme, the list of courses and the logical sequence of their study, the number of ECTS credits required to complete the programme, and the expected learning outcomes (competences) to be mastered by an applicant for the corresponding degree of higher education.

The educational and scientific programme is used for:

– drawing up curricula and working curricula;
– developing individual plans of PhD students;
– developing working programmes of courses and practical training;
– defining the information base for developing diagnostic tools;
– accreditation of the educational and scientific programme;
– internal and external quality control of specialist training;
– certification of PhD students under the Doctor of Philosophy programme in Specialty 051 "Economics";
– accreditation of the educational programme and inspection of educational activities in the specialty;
– development of the curriculum and of course and practical-training syllabi;
– development of tools for diagnosing the quality of higher education;
– defining the content of training in the system of retraining and professional development;
– career guidance for those entering the profession.

The educational and scientific programme takes into account the requirements of the Law of Ukraine on Amendments Concerning the Improvement of Educational Activities in Higher Education No. 392-IX of 18.12.2019, the Law of Ukraine "On Higher Education" No. 1556-VII of 01.07.2014 (as amended), Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Procedure for Training Applicants for the Degrees of Doctor of Philosophy and Doctor of Sciences in Higher Education Institutions (Research Institutions)" No. 261 of 23.03.2016 (as amended), Resolution of the Cabinet of Ministers of Ukraine "On Approval of the National Qualifications Framework" No. 1341 of 23.11.2011 (as amended), the Higher Education Standard for Specialty "Economics", field of knowledge 05 Social and Behavioural Sciences for the third (educational and scientific) level of higher education (MESU Order No. 424 of 10.05.2022) and establishes:

– the workload and duration of PhD studies;
– general competences;
– professional competences;
– programme learning outcomes;
– the list and workload of courses for acquiring the competences of the programme;
– requirements for the structure of courses.

Users of the educational and scientific programme:

– higher education students studying at National Aerospace University "Kharkiv Aviation Institute";
– academic staff who train PhD students under the Doctor of Philosophy programme in Specialty 051 "Economics";
– the examination board of Specialty 051 "Economics";
– the admissions committee of National Aerospace University "Kharkiv Aviation Institute".

The educational and scientific programme applies to the University departments involved in training Doctors of Philosophy in Specialty 051 "Economics".

1 PROFILE OF THE EDUCATIONAL AND SCIENTIFIC PROGRAMME "ECONOMICS" FOR THE TRAINING OF DOCTORS OF PHILOSOPHY IN SPECIALTY 051 "ECONOMICS"

1 – General information	
Full name of the HEI and structural unit	National Aerospace University "Kharkiv Aviation Institute", Department of Postgraduate and Doctoral Studies National Aerospace University «Kharkiv Aviation Institute», Postgraduate and Doctoral Department
Field of knowledge, specialty	05 – Social and Behavioural Sciences 051 – Economics
HE degree	Doctor of Philosophy / Doctor of Philosophy
Qualification in the diploma	Preparation and defence of research achievements –National Aerospace University "Kharkiv Aviation Institute" Preparation and protection of scientific achievements – National Aerospace University «Kharkiv Aviation Institute» Qualification: Doctor of Philosophy in Economics Qualification: Doctor of Philosophy in Economics Degree of higher education – Doctor of Philosophy Higher education degree – Doctor of Philosophy Field of knowledge 05 "Social and Behavioural Sciences" Areas of knowledge 05 «Social and Behavioral Sciences» Specialty 051 «Economics» Specialty 051 «Economics»
Official title of the ESP	Economics
Type of diploma and scope of the ESP	Diploma of Doctor of Philosophy, single; the educational component of the programme is 45 ECTS credits; duration of study 4 years Doctor of Philosophy, single, the volume of the educational component of the educational and scientific program – 45 ECTS credits, term of study – 4 years
Mode of study	Full-time / part-time
Accreditation	The educational and scientific programme was introduced in 2016
Cycle/level	NQF of Ukraine – level 8, FQ-EHEA – third cycle, EQF-LLL – level 8
Educational qualification	Doctor of Philosophy in Economics Doctor of Philosophy in Economics
Prerequisites	Persons holding a Master's degree may apply for the Doctor of Philosophy degree. For persons who obtained the previous level of higher education in other specialties, the programme of professional entrance examinations must verify the acquisition of the competences and learning outcomes defined by the HE standard for Specialty 051 Economics at the second (Master's) level of HE
Language(s) of instruction	The language of instruction is the state language – Ukrainian. To create conditions for international academic mobility, a decision may be made to teach one or more courses in English and/or other foreign languages
Validity of the ESP	Until a new educational and scientific programme comes into effect
Web address for permanent posting of the ESP description	https://khai.edu/osvitno-naukovi-programi-dla-aspirantiv
2 – Purpose of the educational and scientific programme	
To train highly qualified, competitive Doctors of Philosophy in the field of social and behavioural sciences, Specialty 051 "Economics", integrated into the European and global research and education area and capable of independent research, research-management, teaching-management and practical activities in this field, taking into account the specifics of the aerospace industry, as well as teaching in higher education institutions	
3 – Characteristics of the educational and scientific programme	
Description of the subject area	**Field of knowledge**05 – Social and Behavioural Sciences / 05 «Social and Behavioral Sciences» **Specialty–** 051 «Economics»/ 051 «Economics»

	Object of activity (research): theory and methodology of scientific research; phenomena and problems of modern economic processes and systems. **Learning objectives**: acquiring the ability to generate new ideas and solve complex problems in economics, involving a profound rethinking of existing and the creation of new holistic knowledge and/or professional practice **Theoretical content of the subject area**: general laws, regularities and trends of socio-economic development; motivation and behaviour of market agents; theories of micro-, macro- and international economics; quantitative methods in economic research; institutional, interdisciplinary and historical analysis of socio-economic phenomena and processes; development and justification of economic decisions; regulation and management of multilevel economic systems. **Methods, techniques and technologies**: methods of micro- and macroeconomic research, computer modelling of economic systems, statistical analysis, forecasting and project management; digital technologies; methods and technologies of academic teaching and research. **Tools and equipment**: information and communication systems, specialised software, instruments and equipment required for conducting research in economics.
Orientation of the EP	**Educational and scientific programme for training Doctors of Philosophy in Economics**
Main focus of the ESP	Modern innovative models and methods in economics
Distinctive features of the ESP	The programme provides study of the fundamentals of research work in the field using the methods and technologies of economic sciences, acquisition of relevant knowledge and competences taking into account the latest advances in economics, and in-depth knowledge of modern models, methods and techniques for analysing and evaluating data in economic systems to manage complex processes and objects (production, the economy, etc.). The exclusivity of the programme stems from its focus on combining professional training with mastery of modern economic research tools, based on advanced techniques for complex objects of the aerospace industry (aerospace equipment, its production and the management of related business processes) and for critical objects of the national economy that require economic analysis, forecasting, collection, storage and processing of information, high information-security requirements and real-time management. National Aerospace University «Kharkiv Aviation Institute»has established a scientific and pedagogical school and trained highly qualified academic staff to deliver the educational and scientific programme for training Doctors of Philosophy with a focus on applying social and behavioural sciences to high-tech enterprises.
4 – Graduate employability and further study	
Employability	Employment in research and academic positions at research institutions and higher education institutions, and in other positions requiring the qualification of Doctor of Philosophy in Economics, in particular as research consultants, experts and analysts in research institutions and in units of enterprises, institutions and organisations.
Academic rights of graduates	Pursuing the degree of Doctor of Sciences and additional qualifications in the adult education system.
5 – Teaching and assessment	
Teaching and learning	Learning, self-study, and problem-based learning aimed at developing critical and creative thinking; learning through laboratory practice, dual (in the research component) and distance (where necessary) education, etc. Lectures, multimedia lectures, laboratory work, seminars, practical classes, independent work using textbooks and lecture notes, consultations with teachers, and preparation of the dissertation.
Assessment	Ongoing and final assessment of knowledge (tests and individual assignments, testing), pass/fail tests and examinations (oral and written), presentations, interim assessment in the form of an annual report according to the individual plan, presentation of research results at scientific conferences, publication of research results, and public defence of the dissertation Throughout the period of study, the PhD student reports twice a year on the fulfilment of the individual plan at a meeting of the graduating department and to the faculty academic council, and is assessed annually by the supervisor according to the academic schedule.

6 – Programme competences	
Integral competence	The ability to generate new ideas, solve complex problems in economics, and conduct one's own research whose results have scientific novelty and theoretical and practical significance, involving a profound rethinking of existing and the creation of new holistic knowledge and/or professional practice.
General competences	GC01. Ability for abstract thinking, analysis and synthesis. GC02. Ability to search for, process and analyse information from various sources. GC03. Ability to work in an international context. GC04. Ability to generate new ideas (creativity). GC05. Ability to solve complex economic problems based on a systemic scientific worldview and broad cultural outlook, in compliance with the principles of professional ethics and academic integrity.
Special (professional) competences	SC01. Ability to conduct original research and achieve scientific results that create new knowledge in economics and related interdisciplinary areas and can be published in leading scientific journals in economics and related fields. SC02. Ability to present and discuss, orally and in writing, the results of research and/or innovative developments in Ukrainian and English. SC03. Ability to use modern methodologies, methods and tools of empirical and theoretical research in economics, computer modelling methods, modern digital technologies, databases and other electronic resources, and specialised software in research and academic teaching. SC04. Ability to carry out academic teaching and research in higher education institutions. SC05. Ability to identify, analyse in depth and solve research problems in economics, taking into account economic risks and possible socio-economic consequences, and to evaluate and ensure the quality of the research performed, including in the field of international innovation cooperation. SC06. Ability to justify and prepare economic decisions based on an understanding of the regularities of development of socio-economic systems and processes using mathematical methods and models SC07. Ability to initiate, develop and implement comprehensive innovative research projects in economics and related interdisciplinary approaches, to demonstrate leadership and responsibility in their implementation, to commercialise research results and to ensure the protection of intellectual property rights.

7 – Normative content of Doctor of Philosophy training, formulated in terms of learning outcomes
PLO01. Possess advanced conceptual and methodological knowledge of economics, the management of socio-economic systems and at the boundaries of subject areas, as well as research skills sufficient to conduct fundamental and applied research at the level of world achievements in the relevant field. PLO02. Have a deep understanding of the basic (fundamental) principles and methods of economic sciences and of research methodology; create new knowledge in economics to achieve economic and social development under globalisation. PLO03. Develop and investigate fundamental and applied models of socio-economic processes and systems, and use them effectively to obtain new knowledge and/or create innovative products in economics and related interdisciplinary areas. PLO04. Apply modern tools and technologies for searching, processing and analysing information, in particular statistical methods for analysing large and/or complex datasets, specialised software and information systems. PLO05. Propose new solutions and develop research projects that make it possible to rethink existing and create new holistic knowledge and/or professional practice and to solve significant fundamental and applied problems of economic science, taking into account social, economic, environmental and legal aspects; ensure the commercialisation of research results and the protection of intellectual property rights. PLO06. Fluently present and discuss research results and theoretical and practical problems of economics with specialists and non-specialists in the state and a foreign language; competently report research results in publications in leading scientific journals. PLO07. Apply innovative teaching technologies; formulate the content and objectives of learning, ways of achieving them and forms of assessment; take responsibility for the effectiveness of the educational process in compliance with the norms of academic ethics and integrity. PLO08. Plan and conduct empirical and/or theoretical research in economics and related interdisciplinary areas; critically analyse the results of one's own research and those of other researchers in the context of the entire body of current knowledge on the problem under study

PLO09. Formulate and test hypotheses; use appropriate evidence to substantiate conclusions, in particular the results of theoretical analysis, empirical research and mathematical and/or computer modelling, and available literature data PLO10. Study, generalise and implement innovations in economic and computer sciences in the educational process and in practice. PLO11. Be able to manage the scope, schedule, cost, quality, risks, human resources and communications of research and technology projects, including in the aerospace industry, in compliance with international standards.	
8 – Resource support for programme implementation	
Staffing	Academic staff involved in teaching professionally oriented courses hold academic degrees and/or academic titles and meet the licensing requirements (Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Licensing Conditions for Educational Activities of Educational Institutions" No. 1187 of 30 December 2015 (as amended)).
Material and technical resources	Teaching takes place in the teaching laboratories, computer rooms and classrooms of National Aerospace University «Kharkiv Aviation Institute». Complies with the technological requirements for material and technical support of educational activities in higher education under the current legislation of Ukraine (Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Licensing Conditions for Educational Activities of Educational Institutions" No. 1187 of 30 December 2015 (as amended)).
Information and teaching and learning resources resources	Characteristics of information and teaching resources: –use of web and mobile technologies in research; –use of artificial intelligence and machine learning in research; –use of cloud computing in research; –use of augmented reality in research; –use of intelligent and distance learning methods. Complies with the technological requirements for teaching and information support of educational activities in higher education under the current legislation of Ukraine (Resolution of the Cabinet of Ministers of Ukraine "On Approval of the Licensing Conditions for Educational Activities of Educational Institutions" No. 1187 of 30 December 2015 (as amended)).
9 – Academic mobility	
National credit mobility	Based on bilateral agreements between National Aerospace University "Kharkiv Aviation Institute" and technical institutions of Ukraine. SE Kharkiv Machine-Building Plant "FED" (Agreement No. 2/7 of 19.02.2016); SE Plant "Elektrovazhmash" (Agreement No. 2/14 of 16.05.2016); PJSC "Turboatom" (Agreement No. 2/10 of 27.09.2017); State Enterprise "Antonov" (Agreement No. 1/2 of 01.08.2018); Motor Sich JSC (Agreement No. 11066/18-D of 10.07.2018); Municipal Higher Education Institution "Kharkiv Academy of Continuing Education" (Agreement of 08.02.2019); State Research and Production Enterprise (SRPE) "Kommunar Association" (Agreement No. 2/39 of 05.06.2020); Classic Private University (Agreement of 08.09.2020); Volodymyr Dahl East Ukrainian National University (Agreement of 03.02.2020); Lesya Ukrainka Volyn National University (Agreement No. 135U of 05.08.2021); State Institution "V.K. Mamutov Institute of Economic and Legal Research of the National Academy of Sciences of Ukraine" (Agreement of 03.09.2021); Ivan Puluj Ternopil National Technical University (Agreement of 02.07.2021); National Technical University "Kharkiv Polytechnic Institute" (NTU "KhPI") (Agreement No. 1077 of 27.09.2021).
International credit mobility	Based on bilateral agreements between National Aerospace University "Kharkiv Aviation Institute" and educational institutions of partner countries: ARIEL UNIVERSITY (Ariel, Israel); ISTANBUL TECHNICAL UNIVERSITY (Istanbul, Turkey); Otto von Guericke University (Magdeburg, Federal Republic of Germany); Technical University of Košice(Slovak Republic); Erasmus+ (Inter-institutional agreement on learning mobility for HEI students and staff 2021-2023); Erasmus+ (learning mobility for HEI students and staff 2021-2027).
Training of international students	Foreign citizens are taught in the state language or in English. Where teaching is in the state language, a decision may in certain cases be made to teach one or more courses in English and/or other foreign languages.

2 LIST OF COMPONENTS OF THE EDUCATIONAL AND SCIENTIFIC PROGRAMME "ECONOMICS" AND THEIR LOGICAL SEQUENCE

2.1 List of components of the educational and scientific programme

Code of ESP comp.	Components of the educational and scientific programme (courses, projects/papers, practical training)	Number of credits (semester)	Form of final assessment
Compulsory components of the ESP			
CC1	Processing and Analysis of Research Results Using IT	5(1)	exam
CC2	Research Project Management	4(2)	exam
CC3	Philosophy	5(3)	exam
CC4	Methodology of Pedagogical Activity	5(4)	exam
CC5	Academic Communication in a Foreign Language	3(1)	pass/fail
		3(2)	exam
CC6	Modern Economic Theories	3(1)	exam
CC7	Applied Economics of a Modern Manufacturing Enterprise	3(1)	exam
Total volume of compulsory components:		**31**	
Elective components of the ESP			
EC1	Elective course (in-depth knowledge of the specialty)*	4(2)	exam
EC2	Elective course (related to the dissertation topic)**	5(3)	exam
EC3	Elective course **(**free choice)***	5(4)	exam
Total volume of elective components:		**14**	
TOTAL VOLUME OF THE EDUCATIONAL AND SCIENTIFIC PROGRAMME		**45**	

* Block of courses for acquiring in-depth knowledge of the specialty in whichthe PhD student conducts research, including mastering the main concepts, understanding theoretical and practical problems, the history and current state of scientific knowledge in the chosen specialty, and mastering the terminology of theresearch area under study. The PhD student chooses one 5-credit course.

** Block of courses related to the dissertation topic in which the PhD student conducts their own research, the results of which have scientific novelty and theoretical and/or practical significance. The PhD student chooses one 5-credit course.

*** Block of free-choice courses, in which the PhD student chooses courses offered at other levels of higher education. The PhD student must submit to the Department of Postgraduate and Doctoral Studies an application agreed with the supervisor, justifying the need to study the chosen courses taught at other levels of higher education in view of the dissertation topic. The PhD student chooses one 5-credit course.

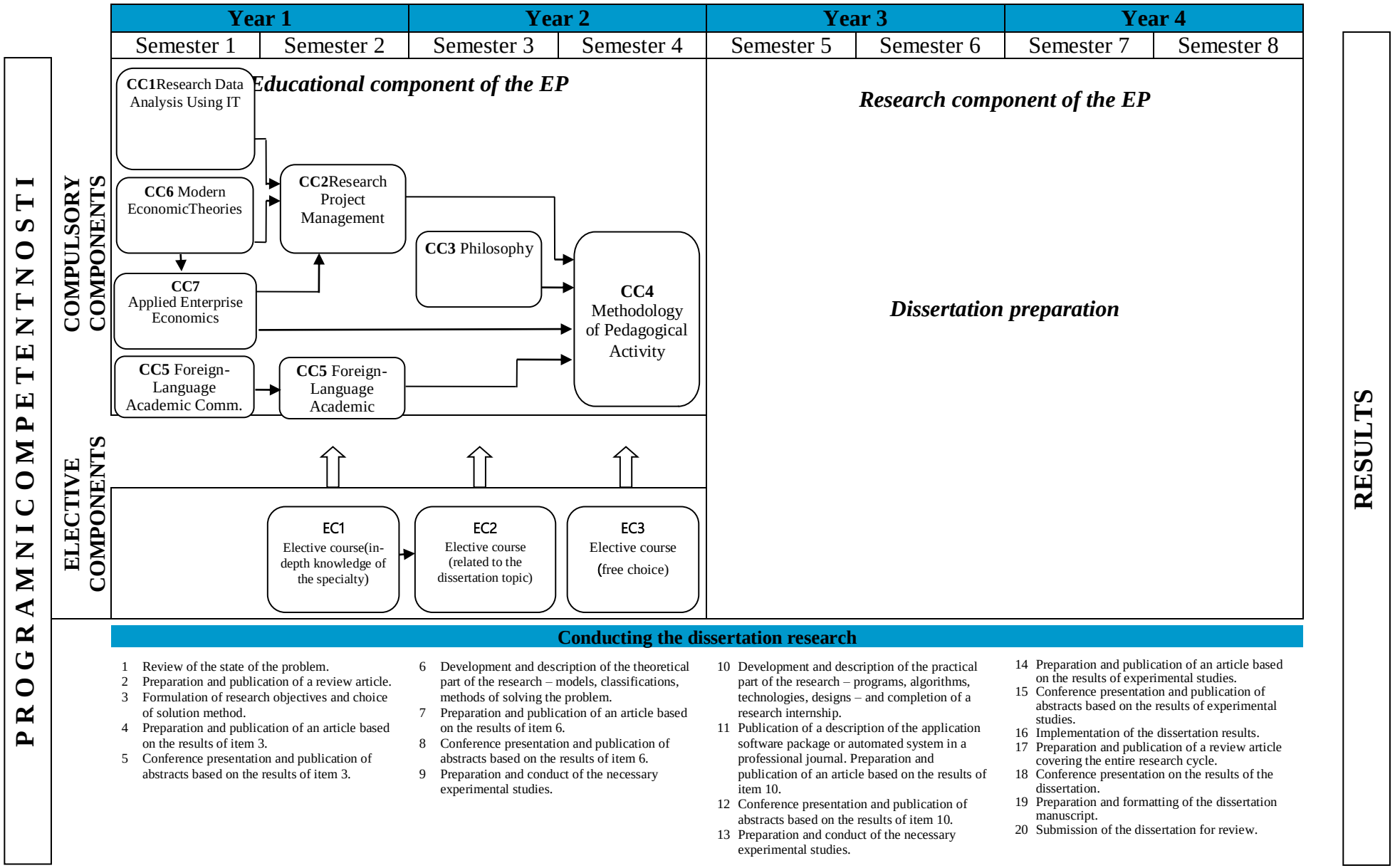
The PhD student also has the right to academic mobility and to choose courses from other levels of education.

The elective components and their content are presented on the website in the section "Elective components of educational and scientific programmes": https://khai.edu/ua/nauka/aspirantura-ta-doktorantura/.

2.2 Structural and logical scheme of the educational and scientific programme

The structural and logical scheme of the programme shows the sequence in which its components are studied and reflects its two parts – educational and research. The research part of the programme involves the PhD student conducting their own research under the guidance of a supervisor and presenting its results in the form of a dissertation. The educational and research parts of the programme are set out in the PhD student's individual plan of educational and research work, which is an integral part of the PhD curriculum. The preparation and publication of research papers and presentations at scientific conferences, seminars, etc. are also an integral part of the research component of the programme.

STRUCTURAL AND LOGICAL SCHEME OF THE EDUCATIONAL AND SCIENTIFIC PROGRAMME



2.3 Development of competences (general, special (professional)) and programme learning outcomes by the compulsory components of the ESP

№No.	EP comp. code	Name of EP component	Aim and objectives of EP component	Competences developed		Learning outcomes
				general	professional	
1.	**CC1**	Processing and Analysis of Research Results Using IT	**Aim** – to master knowledge of processing, analysing, evaluating and verifying information and the results of experimental research in the course of research activities; to know the most advanced mathematical methods and information technologies; to be able to forecast and make decisions in complex systems of various kinds (information, economic, financial, social, political, technical, organisational, environmental, etc.) under uncertainty, based on systems methodology and at the boundaries of subject areas. **Objectives** – to train professionals able to develop and implement projects, including their own research, that make it possible to rethink existing and create new holistic knowledge in the specialty for forecasting behaviour, designing the management of complex systems, and creating decision-support systems based on systems methodology and at the boundaries of subject areas.	GC01 GC02	SC01 SC03 SC07	PLO04 PLO09 PLO10
2.	**CC2**	Research Project Management	**Aim** – to provide PhD candidates with modern methods and technologies for managing research projects and programmes and evaluating their results; to provide a body of knowledge on the basic principles, categories, models and tools of project management; to provide knowledge of managing the process of raising funds and other resources (human, material, information, etc.) that an organisation cannot provide on its own and that are necessary to implement a particular project or its activities as a whole; to provide knowledge of intellectual property management for identifying the dominant object in the long-term planning of an enterprise's (organisation's, institution's) activities. **Objectives** – to train researchers who can effectively develop, plan, implement and complete research and technology projects and programmes; to train specialists in project teamwork, project communications management, project staff management, and financial flow management in a changing external project environment.	GC01 GC02 GC03 GC04	SC02 SC05 SC07	PLO03 PLO04 PLO05 PLO11
3.	**CC3**	Philosophy	**Aim –** to form a worldview based on a system of theoretical knowledge about the world as a whole and about humanity's relation to this world in the	GC01 GC04	SC01 SC06	PLO01 PLO08

№No.	EP comp. code	Name of EP component	Aim and objectives of EP component	Competences developed		Learning outcomes
				general	professional	
			context of ontological, epistemological and axiological problems; to develop critical thinking and independent analysis of social phenomena; to be able to connect general philosophical problems with specific issues of theory and practice. **Objectives –** to master the general tenets of philosophy as a worldview science; to grasp philosophical knowledge as a methodological basis for the natural, technical and human sciences; to become acquainted with the contributions of thinkers from various philosophical schools, movements, historical eras and national traditions, in particular Ukrainian philosophy; to learn the ways of knowing the world and how knowledge functions in the modern information society; to understand the interrelation of science and technology with socio-cultural problems; to develop high standards and principles of professional ethics, moral qualities and respect for traditions based on universal human values; to understand responsibility for fulfilling one's civic duties with regard to the future of humanity and society.	GC05		PLO09
4.	**CC4**	Methodology of Pedagogical Activity	**Aim** – to learn and consolidate the regularities of research activity, the principles of teaching and the technologies for training highly qualified specialists in higher education institutions. **Objectives** – to study the fundamentals of didactics and of conducting research with students; to be able to analyse and evaluate the main trends in the development of higher-education pedagogical theories; to understand the essence of pedagogical technologies and use them in higher education institutions; to formulate thoughts logically and debate, taking into account one's own and the interlocutor's individual psychological characteristics; to generate new ideas for the educational process and science.	GC01 GC02 GC05	SC02 SC03 SC04	PLO02 PLO05 PLO06 PLO07 PLO10
5.	**CC5**	Academic Communication in a Foreign Language	**Aim** – to attain a level of knowledge, skills and abilities that provides specialists with the communicative competence they need in professional and situational communication within their professional activities. **Objectives** – to communicate effectively orally and in writing in professional interaction in a foreign language and when presenting research results: in dialogue, monologue and written speech (summarising, annotating, business correspondence, presenting research projects).	GC03 GC05	SC02 SC03	PLO04 PLO06 PLO11

№No.	EP comp. code	Name of EP component	Aim and objectives of EP component	Competences developed		Learning outcomes
				general	professional	
6.	**CC6**	**Modern Economic Theories**	**Aim** - mastery of the main tenets and methods of economic sciences in solving social and professional tasks. **Objectives** - to know, find and use the information needed for orientation in one's professional activity; the ability to learn and master modern economic knowledge; the ability to conduct research and improve various economic systems and management systems of business entities.	GC01 GC02 GC04 GC05	SC01 SC03 SC05 SC06	PLO01 PLO02 PLO03 PLO08
7.	**CC7**	**Applied Economics of a Modern Manufacturing Enterprise**	**Aim** - to develop in students a system of theoretical knowledge and practical skills in methods of efficient business management; to acquire theoretical and practical knowledge for solving specific economic problems that would allow them to best achieve the economic goals of the enterprise and earn high profits. **Objectives** - to study economics and apply it to ensure high efficiency of the enterprise's production and business activities. To this end, students study the principles of operation, resource provision, costs and factors in reducing them, financial results and ensuring operational efficiency.	GC01 GC02 GC05	SC02 SC03 SC05 SC06	PLO01 PLO02 PLO06 PLO07 PLO08 PLO11

The elective components, their content, the competences they develop (general, special (professional)) and their learning outcomes are presented in the course working programmes and/or syllabi on the website in the section "Brief description, structure and educational components of educational programmes and PhD components" of the educational and scientific programme "Economics", Specialty 051 "Economics"

https://khai.edu/profil-osvitno-naukovoi-programi-ekonomika-id-47856

3 FORM OF CERTIFICATION OF HIGHER EDUCATION STUDENTS

Form of certification of higher education students	Form of certification – a dissertation for the degree of Doctor of Philosophy prepared for subsequent public defence
Requirements for the dissertation for the degree of Doctor of Philosophy	The dissertation for the degree of Doctor of Philosophy is an independent, comprehensive study that proposes a solution to a complex problem in economics or at its boundary with other specialties, the results of which have scientific novelty and theoretical and practical significance. The dissertation must meet the requirements established by law. The dissertation must not contain academic plagiarism, falsification or fabrication. The main text of a dissertation for the degree of Doctor of Philosophy in Specialty "Economics" must be 4.5–7 author's sheets, formatted in accordance with the requirements established by the Ministry of Education and Science. One author's sheet is approximately 24 pages of printed text when the dissertation is prepared on a computer using the Word text editor: font – Times New Roman, font size – 14 pt, 1.5 line spacing. Tables and illustrations that occupy an entire page are not included in the total length of the dissertation. The research is carried out under the guidance of a supervisor, who is responsible for the training of the PhD student and the timely completion and submission of the dissertation. The dissertation and its abstract must be posted on the KhAIwebsite.

4 REQUIREMENTS FOR AN INTERNAL HIGHER EDUCATION QUALITY ASSURANCE SYSTEM

National Aerospace University «Kharkiv Aviation Institute» operates a system for assuring the quality of educational activities and of higher education (internal quality assurance system), which provides for the following procedures and measures:

1) defining the principles and procedures of higher education quality assurance;

2) monitoring and periodic review of educational programmes;

3) annual assessment of higher education students and of the institution's academic and teaching staff, and regular publication of the results of such assessments on the official KhAIwebsite, on information boards and by any other means;

4) ensuring professional development of teaching, research and academic staff;

5) ensuring the availability of the resources necessary to organise the educational process, including students' independent work, for each educational programme;

6) ensuring the availability of information systems for effective management of the educational process;

7) ensuring public access to information about educational programmes, higher education degrees and qualifications;

8) ensuring compliance with academic integrity by staff and students of higher education institutions, including establishing and operating an effective system for preventing and detecting academic plagiarism;

9) other procedures and measures.

All these items are regulated by:

– the University Statute (Section IX);

– the Regulation "On the System of Quality Assurance of Educational Activities and Higher Education";

– the Regulation "On the Development and Modernisation of Educational Programmes";

– the Regulation "On Professional Development and Internships of Teaching and Academic Staff and Industry Specialists at the University";

– the Regulation "On the Organisation of the Educational Process";

– the Regulation "On Distance Learning";

– the Regulation "On Academic Integrity";

the Anti-Corruption Programme of National Aerospace University "Kharkiv Aviation Institute".

5 MATRIX OF CORRESPONDENCE OF PROGRAMME COMPETENCES TO THE COMPULSORY COMPONENTS OF THE EDUCATIONAL AND SCIENTIFIC PROGRAMME

Programme competences	Compulsory components of the educational and scientific programme						
	CC1	CC2	CC3	CC4	CC5	CC6	CC7
GC01	+	+	+	+		+	+
GC02	+	+		+		+	+
GC03		+			+		
GC04		+	+			+	
GC05			+	+	+	+	+
SC01	+		+			+	
SC02		+		+	+		+
SC03	+			+	+	+	+
SC04				+			
SC05		+				+	+
SC06			+			+	+
SC07	+	+					

6 MATRIX OF CORRESPONDENCE OF LEARNING OUTCOMES TO THE COMPULSORY COMPONENTS OF THE EDUCATIONAL AND SCIENTIFIC PROGRAMME

Programme outcomes outcomes	Compulsory components of the educational and scientific programme						
	CC1	CC2	CC3	CC4	CC5	CC6	CC7
PLO01			+			+	+
PLO02				+		+	+
PLO03		+				+	
PLO04	+	+			+		
PLO05		+		+			
PLO06				+	+		+
PLO07				+			+
PLO08			+			+	+
PLO09	+		+				
PLO10	+			+			
PLO11		+			+		+

7 NORMATIVE REFERENCES

The educational and scientific programme "Economics" was developed on the basis of the following regulatory documents and recommendations:

– Law of Ukraine on Amendments Concerning the Improvement of Educational Activities in Higher Education No. 392-IX of 18.12.2019;

– Higher Education Standard for the third (educational and scientific) level of higher education, field of knowledge 05 "Social and Behavioural Sciences", Specialty 051 "Economics", No. 424 of 10.05.2022;

– ESG 2015 (Standards and Guidelines for Quality Assurance in the EHEA) – https://ihed.org.ua/wp-content/uploads/2018/10/04_2016_ESG_2015.pdf;

– EQF 2017 (European Qualifications Framework) – https://publications.europa.eu/en/publication-detail/-/publication/ceead970-518f-11e7-a5ca-01aa75ed71a1/language-en; https://ec.europa.eu/ploteus/content/descriptors-page;

– QF EHEA 2018 (Qualifications Framework of the EHEA) – http://www.ehea.info/Upload/document/ministerial_declarations/EHEAParis2018_Communique_AppendixIII_952778.pdf;

– ISCED (International Standard Classification of Education) 2011 – http://uis.unesco.org/sites/default/files/documents/international-standard-classification-of-education-isced-2011-en_0.pdf;

– ISCED-F (International Standard Classification of Education – Fields of Education and Training) 2013 – http://uis.unesco.org/sites/default/files/documents/isced-fields-of-education-and-training-2013-en.pdf;

– Law "On Higher Education" – http://zakon4.rada.gov.ua/laws/show/1556-18;

– Law "On Education" – http://zakon5.rada.gov.ua/laws/show/2145-19;

– Resolution of the CMU "On Approval of the Procedure for Training Applicants for the Degrees of Doctor of Philosophy and Doctor of Sciences in Higher Education Institutions (Research Institutions)", as amended – https://zakon.rada.gov.ua/laws/show/261-2016-%D0%BF;

– National Classifier of Ukraine: Classifier of Occupations DK 003:2010 – https://zakon.rada.gov.ua/rada/show/va327609-10;

– National Qualifications Framework – https://zakon.rada.gov.ua/laws/show/1341-2011-%D0%BF#Text;

– List of Fields of Knowledge and Specialties, 2015 – https://www.kmu.gov.ua/npas/248149695;

– Decree of the President of Ukraine "Issues of European and Euro-Atlantic Integration" No. 155/2019 of 20 April 2019 – https://www.president.gov.ua/ documents/1552019-26586;

– Methodological Recommendations for the Development of Higher Education Standards (Order of the MES of Ukraine No. 600 of 01.06.2017), approved by the Higher Education Sector of the Scientific and Methodological Council of the Ministry of Education and Science of Ukraine (as amended);

– EU TUNING Project (examples of learning outcomes and competences) http://www.unideusto.org/tuningeu;

– National Glossary: Higher Education, 2014 – http://erasmusplus.org.ua/korysna-informatsiia/korysni-materialy/category/3-materialynatsionalnoi-komandy-ekspertiv-shchodo-zaprovadzhennia-instrumentiv-bolonskohoprotsesu.html?start=80;

– RashkevychYu.M. The Bologna Process and the New Paradigm of Higher Education: monograph – http://erasmusplus.org.ua/korysna-informatsiia/korysnimaterialy/category/3-materialy-natsionalnoi-komandy-ekspertiv-shchodozaprovadzhennia-instrumentiv-bolonskoho-protsesu.html?start=80;

Development of Educational Programmes: Methodological Recommendations – http://erasmusplus.org.ua/korysna-informatsiia/korysni-materialy/category/3-materialynatsionalnoi-komandy-ekspertiv-shchodo-zaprovadzhennia-instrumentiv-bolonskohoprotsesu.html?start=80.