MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE National Aerospace University "Kharkiv Aviation Institute"

APPROVED

the Academic Council of the National Aerospace University "Kharkiv Aviation Institute" Chairman of the Academic Council

«___» 201_, protocol No. _____

EDUCATIONAL AND PROFESSIONAL PROGRAM

Engineering Maintenance of Aircraft and Engines The first (bachelor's) level of higher education in specialty 272 Aviation Transport

areas of knowledge 27 Transport Services Qualification: <u>Bachelor in Aviation transport in the educational</u> <u>program "Engineering Maintenance of Aircraft and Engines"</u>

Revision 2

The educational program is put into operation from "01" September 2017

Rector of the National Aerospace University "Kharkiv Aviation Institute" ______ M.V. Nechyporuk order No. 178 from "19" _04_ 2017

PREFACE

Educational and professional program "Engineering Maintenance of Aircraft and Engines" in the specialty 272 "Aviation transport" for training of bachelors is developed by the working group of the National Aerospace University «Kharkiv Aviation Institute» consisting of:

a)) project team: a) project team:		
1	Project team leader	Orlovskyi M.M.	- Cand. tech. Sciences, Associate Professor, Department of Aircraft and Aircraft Designing Department Helicopter Design
2	Project team members:	Malkov I.V.	- Dr. Tech. Sciences, Professor, Aircraft Designing Department
3		Babushkin O.A.	- Cand. tech. Sciences, Associate Professor, Aircraft Designing Department

b) members of the working group:

1	Shaabdiev S.S.	- Cand. tech. Sciences, Associate Professor, Aircraft
		Designing Department
2	Serdiukov O.A.	- Senior Lecturer, Aircraft Designing Department
3	Tretiakov Y.V.	- Senior Lecturer, Aircraft Designing Department

Reviews of external stakeholders (if available):

1 2 3

This educational and professional program may not be fully or partially reproduced and distributed without the permission of the National Aerospace University "Kharkiv Aviation Institute"

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

INTRODUCTION

According to Art. 1 "Basic terms and their definitions" of the Law of Ukraine "On Higher Education" from 01.07.2014 No. 1556-VII (as amended) educational program is a system of educational components at the appropriate level of higher education within the specialty that determines the requirements for the level of education persons who can start studying under this program, the list of disciplines and the logical sequence of their study, the number of ECTS credits required for this program, as well as the expected learning outcomes (competencies) that must be mastered by the applicant.

The educational program is used during:

- Accreditation of the educational program, inspection of educational activity by specialty and specialization;

- Development of curriculum, syllabuses and practices;
- Development of diagnostic tools for the quality of higher education;

- Determining the content of training in the system of retraining and advanced training;

- Professional orientation of applicants for the specialty.

The educational and professional program takes into account the requirements of the Law of Ukraine "On Higher Education" from 01.07.2014 No. 1556-VII (as amended), Resolution of the Cabinet of Ministers of Ukraine "On approval of the National Qualifications Framework" from 23.11.2011 № 1341 and establishes:

- Volume and term of study of bachelors;
- General competencies;
- Professional competencies;
- Program learning outcomes;

- The list and volume of academic disciplines for mastering the competencies of the educational-professional program;

- Requirements for the structure of academic disciplines.

Educational and professional program is used for:

- Drawing up curricula and working curricula;
- Formation of individual plans of students;
- Formation of working programs of academic disciplines, practices;
- Determination of the information base for the formation of diagnostic tools;
- Accreditation of educational and professional program;
- Internal and external quality control of training;

- Certification of bachelors in the educational and professional program "Engineering Maintenance of Aircraft and Engines" in the specialty 272 "Aviation Transport".

Users of the educational and professional program:

- Applicants for higher education studying at the National Aerospace University "Kharkiv Aviation Institute";

- Scientific and pedagogical workers who train bachelors according to the educational and professional program "Engineering Maintenance of Aircraft and Engines" in specialty 272 "Aviation transport".

- Examination commission of specialty 272 "Aviation Transport";

- Admissions Committee of the National Aerospace University "Kharkiv

Aviation Institute".

- The educational and professional program extends to the departments of the University involved in the training of bachelor's degree specialists in the educational-professional program "Engineering Maintenance of Aircraft and Engines" in specialty 272 "Aviation Transport".

1 REGULATORY REFERENCES

The educational and professional program is developed on the basis of the following regulations and recommendations:

1.1 Law of Ukraine "On Higher Education". No. 1556-UII dated 01.07.2014 (as amended).

1.2 Resolution of the Cabinet of Ministers of Ukraine "On approval of the National Qualifications Framework" dated 23.11.2011 No. 1341.

1.3 Resolution of the Cabinet of Ministers of Ukraine "On approval of the list of branches of knowledge and specialties in which the training of higher education seekers" from 29.04.2015 No. 266.

1.4 Resolution of the Cabinet of Ministers of Ukraine "On approval of the Regulations on the procedure for exercising the right to academic mobility" dated 12.08.2015 No. 579.

1.5 National Classifier of Ukraine. Classifier of professions DK 003: 2010, approved by the order of Derzhspozhyvstandart of Ukraine dated 28.07.2010 No. 327 (as amended).

1.6 Methodical recommendations for the development of standards of higher education, approved by the higher education sector of the Scientific and Methodological Council of the Ministry of Education and Science of Ukraine Minutes of 29.03.2016 No. 3

1.7 Regulation "On the organization of the educational process" SUYA KHAI-NOV-P/005: 2016 of the National Aerospace University "Kharkiv Aviation Institute", approved by the Academic Council of the University on 18.05.2016, protocol No. 10.

1.8 A Tuning Guide to Formulating Degree Program Profiles Including Program Competences and Program Learning Outcomes. - Bilbao, Groningen and The Hague, 2010.

1.9 A Tuning-AHELO Conceptual Framework of Expected Desired / Learning Outcomes in Engineering. OECD Education Working Papers, No. 60, OECD Publishing 2011.<u>http://dx.doi.org/10.1787/5kghtchn8mbn-en</u>

1.10 National Qualifications Framework. Appendix to the Resolution of the Cabinet of Ministers of Ukraine of November 23, 2011 No. 1324.

1.11 Development of educational programs. Methodical recommendations / Authors: V.M. Zakharchenko, V.I. Lugovyi, Y.M. Rashkevich, Z.V. Talanova / Ed. V.G. Kremen. - Kyiv: State Enterprise "Priorities", 2014. - 120 p.

1.12 Order of the Ministry of Education and Science of Ukraine "On the peculiarities of the introduction of the list of branches of knowledge and specialties for which higher education is approved, approved by the Cabinet of Ministers of Ukraine dated April 29, 2015 No. 266" dated 06.11.2015 No. 1151.

1.13 Classification of economic activities: DK 009: 2010. - Valid from 01.01.2012. - (National Classifier of Ukraine).

1.14 Classifier of professions: DK 003: 2010. - Valid from 01.11.2010. - (National Classifier of Ukraine).

1.15 National educational glossary: higher education / 2nd ed., Revised. I extra. / Author: V.M. Zakharchenko, S.A. Kalashnikov, V.I. Lugovyi, A.V. Stavytskyi, Y.M. Rashkevich, Z.V. Talanova / Ed. V.G. Kremen. _ Kyiv: Pleiades Publishing House LLC, 2014. - 100 p.

1.16 Draft Standard of higher education for bachelor's degree in specialty 272 Aviation Transport / 2017. - 18 p.

	<u>1 - General information</u>
Full name of the higher	National Aerospace University "Kharkiv Aviation Institute"
educational institution and	Aircraft Designing Department
structural subdivision	
Degree of higher education	Degree of higher education - bachelor
and title of qualification in	Qualification: Bachelor in Aviation Transport according to the
the original language	educational program «Engineering Maintenance of Aircraft and
	Engines»
The official name of the	Engineering Maintenance of Aircraft and Engines
educational and	
professional program	
Type of diploma and scope	On the basis of complete general secondary education with a term of
of educational and	study of 11 years, the scope of the bachelor's educational program is
professional program	240 ECTS credits.
	On the basis of complete general secondary education with a term of
	study of 12 years, the scope of the bachelor's educational program is
	240 ECTS credits.
	Based on the undergraduate degree, the scope of the bachelor's degree
	program is 180 ECTS credits.
	At least 50 percent of the educational program should be directed to the
	acquisition of general and special (professional) competencies in the
	specialty defined by the standard of higher education, as well as 25
	percent - at the student's choice.
Availability of	Certificate of accreditation: Series UD number 21008335, based on the order
accreditation	of the Ministry of Education and Science of Ukraine fromNo. 1565 from
	19.12.2016.
	Expiration date 01.07.2022.
Cycle/level	NQF of Ukraine - level 6, FQ-EHEA - the first cycle, EQF-LL - level 6
Prerequisites	Availability of complete general secondary education, according to the
	results of external independent evaluation. On the basis of a junior
	specialist (junior bachelor).
Language (s) of training	The language of training is the state language.
	In order to create conditions for international academic mobility, it
	may be decided to teach one or more disciplines in English and/or
	other foreign languages, while ensuring that students in the relevant
	discipline know the state language.
	At the request of higher education students, the higher education
	institution creates opportunities for them to learn the language of a
	national minority to the extent that allows them to carry out
	professional activities in the chosen field using this language.
Validity of the educational	Before the introduction of a new educational program

2 Profile of the educational program "Engineering Maintenance of Aircraft and Engines" in specialty 272 "Aviation Transport"

Internet address of the permanent placement of the description of the educational and professional program http://k103.info Training of bachelors who have deep knowledge, as well as basic and professional competencies and are able to correctly independently set and solve problems of scientific and practical and research activities in the field of engineering maintenance of aireraft and engines 3. Characteristics of the educational and professional program Subject area (field of study, specialty, specialization) Field of study 27 "Transport Services" Sdecialty 272 "Aviation Transport" study, specialty, specialization Definetion of the educational and professional program Educational and professional program sets qualification requirements for social and professional program sets qualification requirements for social and professional calcuities of graduates of higher educational "Bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational "Bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain ad Engines". Features of the program Practical training is carried out at aviation enterprises 4. Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines". 5. Teaching and learning A person has he right to continue education at the second level of higher education. 5. Teaching and assessment consultations with teachers, pre	and professional program			
permanent placement of the description of the educational and professional program 2 - The purpose of the educational program Training of bachclors who have deep knowledge, as well as basic and professional competencies and are able to correctly independently set and solve problems of scientific and practical and research activities in the field of engineering maintenance of aircraft and engines 3 - Characteristics of the educational and professional program Subject area (field of specialization) Engineering Maintenance of Aircraft and Engines Orientation of the educational and professional program Educational and professional program sets qualification requirements for social and professional program sets qualification requirements for social and professional program (addition activities of graduates of higher educational professional program The main focus of the educational and professional program Educational and professional program sets qualification requirements for social and professional direction in the educational level of the relevant professional qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Suchelores in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at a	Internet address of the	http://k103.info		
ihe description of the educational and professional program Training of bachelors who have deep knowledge, as well as basic and professional competencies and are able to correctly independently set and solve problems of scientific and practical and research activities in the field of engineering maintenance of aircraft and engines 3. Characteristics of the cducational and professional program Subject area (field of Ericd of study 27 "Transport Services") study, specialty, specialty, Selecialty 272 "Aviation Transport" specialization) Engineering Maintenance of Aircraft and Engines Orientation of the educational and professional program sets qualification requirements for social and production activities of graduates of higher education and professional program professional program Facture of study (SP "Carsport") Aviation Transport" of educational (specialization) "bachelor"s degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the second level of higher education. Training A person has the right to continue education at the second level of higher education. "Engineering Maintenance of Aircraft and Engines". Eatures of the pro	permanent placement of			
educational and professional program 2 - The purpose of the educational program Training of bachelors who have deep knowledge, as well as basic and professional competencies and are able to correctly independently set and solve problems of scientific and practical and rescarch activities in the field of engineering maintenance of aircraft and engines 3 - Characteristics of the educational and professional program Subject area (field of specialization) Field of study 27 "Transport Services" study, speciality, specialization) Orientation of the educational and professional program Educational and professional program sets qualification requirements for social and production activitics of graduates of higher ducational program The main focus of the educational program Educational and professional program sets qualification requirements for social and production activitics of graduates of higher ducational program (specialization) "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technicial (mechanic) for the operation of aircraft (aircraft systems)	the description of the			
professional program 2 - The purpose of the educational program Training of bachelors who have deep knowledge, as well as basic and professional competencies and are able to correctly independently set and solve problems of scientific and practical and research activities in the field of engineering maintenance of aircraft and engines 3 - Characteristics of the educational and professional program Subject area (field of Field of study 27 "Transport Services" study, specialty, specialty, Sdecialty 272 "Aviation Transport" specialization) Engineering Maintenance of Aircraft and Engines Orientation of the educational and professional program sets qualification requirements for social and production activities of graduates of higher educational more social and production activities of graduates of higher educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines". Further training A person has the right to continue education at the second level of higher education. Studentorentred learnings, self-study, problem-oriented learning aimed at the	educational and			
2 - The purpose of the educational program Training of bachelors who have deep knowledge, as well as basic and professional competencies and are able to correctly independently set and solve problems of scientific and practical and research activities in the field of engineering maintenance of aircraft and engines 3 - Characteristics of the educational and professional program Subject area (field of study 27 "Transport Services" 9 - Characteristics of the educational and professional program Orientation of the educational and professional program sets qualification requirements for social and professional program sets qualification requirements for social and production activities of graduates of higher educational more professional program The main focus of the educational and professional cortines of a person who has obtained a certain educational and professional program "Engineering Maintenance of Aircraft and Engines". 9 - Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment 8 achelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines". Further training A person has the right to continue education at the second level of higher education. 9 - Suitability of graduates for employment and further study. Suitability for employment 8 achelors in aviation transport under the educational program "Engineering Maintenance of	professional program			
Training of bachclors who have deep knowledge, as well as basic and professional competencies and are able to correctly independently set and solve problems of scientific and practical and research activities in the field of engineering maintenance of aircraft and engines 3. Characteristics of the cducational and professional program Subject area (field of study 27 "Transport Services" study, specially, specialization) Engineering Maintenance of Aircraft and Engines Orientation of the educational and professional program sets qualification requirements for the social program Educational and professional program sets qualification requirements for social and production activities of graduates of higher educational institutions in the specially 272 "Aviation Transport" of educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the cducational and program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines". Further training A person has the right to continue education at the second level of higher education. full the development of aircraft and Engines. Contance of Aircraft and Engines. Features of the program Pragracering Maintenance of Airc	2	2 - The purpose of the educational program		
are able to correctly independently set and solve problems of scientific and practical and research activities in the field of engineering maintenance of aircraft and engines 3 - Characteristics of the educational and professional program Subject area (field of Field of study 27 "Transport Services" Subject area (field of Field of study 27 "Transport" specialization) Engineering Maintenance of Aircraft and Engines Orientation of the educational and Educational and professional professional program Educational and professional program sets qualification requirements for social and production activities of graduates of higher education institutions in the specialty 272 "Aviation Transport" of cducational (specialization) Educational and professional direction in the education al motofessional program (sets equirements for the properties and qualifies of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines". Further training A person has the right to continue education at the second level of higher education. 5 - Teaching and assessment Student-centered learning, self-study, problem-oriented learning aimed at the develo	Training of bachelors who h	ave deep knowledge, as well as basic and professional competencies and		
activities in the field of engineering maintenance of aircraft and engines 3 - Characteristics of the culcational and professional program Subject area (field of study, specialty, specialization) Field of study 27 "Viation Transport" Sdecialty 272 "Aviation Transport" Orientation of the educational and professional program Educational and professional program sets qualification requirements for social and production activities of graduates of higher education institutions in the specialty 272 "Aviation Transport" of educational "bachclor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport and further study Suitability for employment A person has the right to continue education at more condition at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group elases, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project and its defense 6 - Program completencies Ability to solve complex	are able to correctly indepe	ndently set and solve problems of scientific and practical and research		
3 - Characteristics of the educational and professional program Subject area (field of study, specially, specialization) Field of study 27 "Transport Services" study, specialization) Engineering Maintenance of Aircraft and Engines Orientation of the educational and professional program The main focus of the educational and professional program Educational and professional program sets qualification requirements for social and production activities of graduates of higher education institutions in the specialty 272 "Aviation Transport" of educational (specialization) "backclor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. Further training A person has dassessment, student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, dista	activities in the field of engi	neering maintenance of aircraft and engines		
Subject area (field of study, specialty, specialization) Field of study 27 "Transport Services" Orientation of the educational and professional program Educational and professional program sets qualification requirements for social and professional program sets qualification requirements for social and production activities of graduates of higher educational institutions in the specialty 272 "Aviation Transport" of educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises <u>4 - Suitability of graduates for employment</u> Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines". <u>Further training</u> A person has the right to continue ducation at the second level of higher education. <u>5 - Teaching and assessment</u> Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, paratical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project and its defense 6 - Program competencies 6 - Program competencies Itter exams and assessment, course projects and works, reports on practices, presentations, current (modular) cont	3 - Charac	teristics of the educational and professional program		
study, specialty, specialization) Sdecialty 272 "Aviation Transport" Engineering Maintenance of Aircraft and Engines Orientation of the educational and professional program Educational and professional program sets qualification requirements for social and professional program sets qualification requirements for social and production activities of graduates of higher education institutions in the specialty 272 "Aviation Transport" of educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group elasses, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and	Subject area (field of	Field of study 27 "Transport Services"		
specialization) Engineering Maintenance of Aircraft and Engines Orientation of the educational and professional program Educational and professional professional program The main focus of the educational and professional program (specialization) Educational and professional program sets qualification requirements for social and production activities of graduates of higher education institutions in the specialty 272 "Aviation Transport" of educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. 5 - Teaching and assessment 5 - Teaching and assessment Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project and its defense 6 - P	study, specialty,	Sdecialty 272 "Aviation Transport"		
Orientation of the educational and professional program Educational and professional The main focus of the educational and professional program Educational and professional program sets qualification requirements for social and production activities of graduates of higher education institutions in the specialty 272 "Aviation Transport" of educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. 5 - Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project and its defense 6 - Program competencies Ability to solve complex specialized problem	specialization)	Engineering Maintenance of Aircraft and Engines		
educational and professional program Educational and professional program sets qualification requirements for social and production activities of graduates of higher education institutions in the specialty 272 "Aviation Transport" of educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at arilines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Eurther training A person has the right to continue education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense 6 - Program competencies Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.	Orientation of the	Educational and professional		
professional program The main focus of the educational and professional program (specialization) Educational and professional program sets qualification requirements for social and production activities of graduates of higher educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Eurther training A person has the right to continue education at more Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project and its defense Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense 6 - Program competencies Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is chara	educational and			
The main focus of the educational and professional program sets qualification requirements for social and professional program sets qualification requirements for social and production activities of graduates of higher education institutions in the specialty 272 "Aviation Transport" of educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project and its defense 6 - Program competencies A bility to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involve	professional program			
educational and professional program (specialization) for social and production activities of graduates of higher education institutions in the specialty 272 "Aviation Transport" of educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project and its defense Evaluation 6 - Program competencies Integral competence A bility to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the appl	The main focus of the	Educational and professional program sets qualification requirements		
professional program (specialization) institutions in the specialty 272 "Aviation Transport" of educational "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. 5 - Teaching and assessment Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of texbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project and its defense 6 - Program competencies Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.	educational and	for social and production activities of graduates of higher education		
(specialization) "bachelor's" degree and state requirements for the properties and qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense 6 - Program completencies Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of condi	professional program	institutions in the specialty 272 "Aviation Transport" of educational		
qualities of a person who has obtained a certain educational level of the relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. 5 - Teaching and assessment Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense 6 - Program competencies Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.	(specialization)	"bachelor's" degree and state requirements for the properties and		
relevant professional direction in the educational and professional program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. 5 - Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense 0 - Program completencies Integral completence Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions. <td></td> <td>qualities of a person who has obtained a certain educational level of the</td>		qualities of a person who has obtained a certain educational level of the		
program "Engineering Maintenance of Aircraft and Engines". Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. 5 - Teaching and assessment Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense Integral competence Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.		relevant professional direction in the educational and professional		
Features of the program Practical training is carried out at aviation enterprises 4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. 5 - Teaching and assessment Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense 6 - Program competencies Integral Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.		program "Engineering Maintenance of Aircraft and Engines".		
4 - Suitability of graduates for employment and further study Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense General Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.	Features of the program	Practical training is carried out at aviation enterprises		
Suitability for employment Bachelors in aviation transport under the educational program "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense Integral competence Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.	<u> </u>	ility of graduates for employment and further study		
Difference Difference Purchast "Engineering Maintenance of Aircraft and Engines" can hold positions in the field of civil aviation at airlines: aviation technician (mechanic) for the operation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense 6 - Program competencies Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.	Suitability for employment	Bachelors in aviation transport under the educational program		
Further training Initial relation of a training inclusion of a training and the right to continue education at the second level of higher education. <u>Further training</u> A person has the right to continue education at the second level of higher education. <u>Teaching and learning</u> Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project <u>Evaluation</u> Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense <u>6 - Program competencies</u> Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions. General GC1 Ability to abstract thinking, analysis and synthesis	<u>Surdomity for employment</u>	"Engineering Maintenance of Aircraft and Engines" can hold positions		
Further training In the field of of the unation of aircraft (aircraft systems) Further training A person has the right to continue education at the second level of higher education. Teaching and learning 5- Teaching and assessment Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense 6 - Program competencies Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.		in the field of civil aviation at airlines: aviation technician (mechanic)		
Further training A person has the right to continue education at the second level of higher education. <u>5- Teaching and assessment</u> Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense Integral competence Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions. General GC1 Ability to abstract thinking, analysis and synthesis		for the operation of aircraft (aircraft systems)		
Internal Internal period has the neutron of the ne	Further training	A person has the right to continue education at the second level of		
Evaluation 5 - Teaching and assessment Teaching and learning Student-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense Integral competence Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.	<u>ranner dannig</u>	higher education		
S- Teaching and assessmentTeaching and learningStudent-centered learning, self-study, problem-oriented learning aimed at the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis projectEvaluationWritten exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defenseIntegral competenceAbility to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.GeneralGC1 Ability to abstract thinking, analysis and synthesis		5 Teaching and assassment		
Teaching and rearingStudent-centered rearing, sen-study, protech-ortented rearing and editionat the development of critical and creative thinking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis projectEvaluationWritten exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defenseIntegral competenceAbility to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.GeneralGC1 Ability to abstract thinking, analysis and synthesis	Teaching and learning	<u>5 - Teaching and assessment</u> Student centered learning self study, problem oriented learning aimed		
at the development of critical and creative timiking, learning through laboratory practice, dual, distance education and more. Lectures, multimedia lectures, laboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense <u>6 - Program competencies</u> Integral competence Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions. General GC1 Ability to abstract thinking, analysis and synthesis	<u>reaching and rearning</u>	student-centered learning, sen-study, problem-offented learning anned		
Integral competenceAbility to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.GeneralGC1 Ability to abstract thinking analysis and synthesis		at the development of critical and creative timiking, rearing through		
Interfinedua fectures, faboratory works, seminars, practical group classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis projectEvaluationWritten exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defenseIntegral competence6 - Program competenciesIntegral competenceAbility to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.GeneralGC1 Ability to abstract thinking analysis and synthesis		multimadia lactures, laboratory works, sominars, practical group		
Evaluation Classes, independent work on the basis of textbooks and abstracts, consultations with teachers, preparation of a bachelor's thesis project Evaluation Written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense Integral competence 6 - Program competencies Integral competence Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions. General GC1 Ability to abstract thinking analysis and synthesis		alassas independent work on the basis of toythooks and abstracts		
EvaluationWritten exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defenseIntegral competenceAbility to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.GeneralGC1 Ability to abstract thinking analysis and synthesis		classes, independent work on the basis of textbooks and abstracts,		
Evaluation written exams and assessments, course projects and works, reports on practices, presentations, current (modular) control, bachelor's thesis project and its defense General 6 - Program competencies Integral competence Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions. General GC1 Ability to abstract thinking analysis and synthesis	F 1	With a second se		
practices, presentations, current (modular) control, bachelor's thesis project and its defense <u>6 - Program competencies</u> <u>Integral</u> <u>competence</u> Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions. General GC1 Ability to abstract thinking analysis and synthesis	Evaluation	written exams and assessments, course projects and works, reports on		
project and its defense 6 - Program competencies Integral Ability to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions. General GC1 Ability to abstract thinking analysis and synthesis		practices, presentations, current (modular) control, bachelor's thesis		
Integral competenceAbility to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.GeneralGC1 Ability to abstract thinking analysis and synthesis	project and its defense			
IntegralAbility to solve complex specialized problems and practical problems in the engineering maintenance of aircraft and engines or in the learning process, which involves the application of certain theories and methods of science and is characterized by complexity and uncertainty of conditions.GeneralGC1 Ability to abstract thinking analysis and synthesis	Integral	Ability to solve complex specialized problems and practical problems in		
General GC1 Ability to abstract thinking analysis and synthesis	competence	the engineering maintenance of aircraft and engines or in the learning		
of science and is characterized by complexity and uncertainty of conditions. General GC1 Ability to abstract thinking analysis and synthesis		process, which involves the application of certain theories and methods		
General GC1 Ability to abstract thinking analysis and synthesis		of science and is characterized by complexity and uncertainty of		
General GC1 Ability to abstract thinking analysis and synthesis		conditions.		
<u>server</u> server and synthesis.	General	GC1 Ability to abstract thinking, analysis and synthesis.		

competence (GC)	GC2 Ability to apply knowledge in practical situations.
_	GC3 Knowledge and understanding of the subject area and
	understanding of professional activity.
	GC4 Ability to communicate in the state language both orally and in
	writing.
	GC5 Ability to communicate in a foreign language.
	GC6 Ability to adapt and act in a new situation.
	GC7 Ability to make informed decisions.
	GC8 Ability to work in a team.
	GC9 Safe activity skills.
	GC10 Ability to assess and ensure the quality of work performed.
Professional competencies	PC1 Ability to ensure the safety and cost-effectiveness of aircraft
of the specialty (PC)	flights.
	PC2 Knowledge and understanding of the subject area of risk
	management.
	PC3 Ability to choose the best solutions when planning actions in
	special situations.
	PC4 Ability to provide safety and health at the work site.
	PC5 Ability to develop proposals and implement measures to minimize
	the impact of the human factor on flight safety.
	PC6 Ability to apply mathematical and computer information
	technologies to optimize the management of aviation transport
	enterprises.
	PC7 Skills to work with regulations, reference books and other sources
	of information governing the activities of aviation transport.
	PC8 Ability to participate in a set of planned and preventive works to
	ensure the serviceability efficiency and readiness of aircraft to
	effectively use them for their intended numero
	PC0 A hility to perform professional primary skills, including
	PC9 Ability to perform professional primary skills, including
	metalwork, manufacture and repair of simple parts, assembly of
	components to ensure the serviceability, efficiency and readiness of
	aircraft for their intended use and with the lowest operating costs.
	PC10 Ability to maintain technical documentation and compile
	established reports according to approved forms.
	PC11 Ability to solve problems in planning the maintenance of
	aircraft, operational reliability, regularity of flights.
	PC12 Skills to analyze the reliability of aircraft, the experience of its
	maintenance, planning measures to prevent accidents and incidents,
	failures and damage to aircraft in order to maintain the airworthiness of
	aircraft and ensure flight safety.
	7 - Program learning outcomes
	PLO1 Ensure the safety and cost-effectiveness of aircraft flights.
	PLO2 Analyze the risks that arise during the operation of the aviation
	transport system.
	PLO3 Choose the best solutions when planning actions in special
	situations.
	PLO4 Provide safety and labor protection at the work site.
	PLO5 Develop proposals and implement measures to minimize the
	impact of the human factor on flight safety.
	PLO6 Apply computer and telecommunication tools and technologies
	to optimize the management of aviation transport enterprises.

	PLO7 Summarize information on regulatory documentation, reference
	literature and other sources of information governing the activities of
	aviation transport.
	PLO8 Ensure a set of planned and preventive work on aircraft in order
	to maintain its readiness for effective use as intended
	PI O9 Ensure the implementation of professional primary skills
	including metalwork manufacture and renair of simple parts assembly
	of components to ensure the serviceability efficiency and readiness of
	aircraft for their intended use and with the lowest operating costs
	DL Q10 A nelvice the technical decommentation and established reporting
	PLOTO Analyze the technical documentation and established reporting
	according to the approved forms, including the accounting of service
	The and technical condition of aircraft.
	PLOTT to plan the solution of tasks on maintenance of aircraft,
	operational reliability, regularity of flights, organization, information
	and hardware support of production processes for maintenance and
	repair of aircraft.
	PLO12 Analyze the reliability of aircraft, the experience of its
	maintenance and plan measures to prevent aviation events and
	incidents, failures and damage to aircraft in order to maintain the
	airworthiness of aircraft.
8 - F	Resource support for program implementation
<u>Staffing</u>	Research and teaching staff providing educational and professional
	qualification program, meet the profile and in the direction of the
	disciplines taught, have the necessary experience of pedagogical work
	and experience of practical work, have scientific degrees and/or
	academic title and meet the licensing requirements
Material and technical	The educational process takes place in lecture halls, classrooms for
support	laboratories and laboratories equipped with public projection and
	media equipment, computers and the necessary specialized laboratory
	equipment. Material and technical support allows to fully ensure the
	educational process throughout the training cycle of the educational
	and professional program. The condition of the premises is certified by
	sanitary and technical passports that comply with existing regulations
Information and teaching	Fund of the Scientific and Technical Library of the National Aerosnace
and learning materials	University "Kharkiy Aviation Institute" contains a complete
and rearning materials	information support of all educational components of the educational
	and professional program "Engineering Maintenance of Aircraft and
	Engines" both on traditional madia and audia and video aditional
	CDa DVDa online electronic decumenta. The educational macazza ia
	CDS, DVDS, online electronic documents. The educational process is
	provided by educational and methodical complexes of disciplines both
	in a printed form, and in an electronic form.
National anadit mability	<u>9 - Academic modility</u> Decid on bilateral acrosments between the National Acrosmese
National cledit mobility	Laiversity "Whenkiy Avistian Institute" and demostic higher
	oniversity Knarkiv Aviation institute and contestic night?
	industry in Ultraine
Internetional anadit	Description bilateral account to between the Netional Accounts
micriational credit	Dascu on onateral agreements between the Mational Aerospace
шобшцу	University Knarkiv Aviation Institute and higher educational
	Institutions-partners of foreign countries
I raining of foreign	Education of foreign citizens is carried out in the state or English
applicants for higher	languages
1	

3 List of components of educational and professional program and their logical sequence

EPC code	Components of the educational program (academic	Number	Form of final				
	disciplines, course projects (works), practices,	of credits	control				
	qualification work)						
1	2	3	4				
	Mandatory components of the EP						
	CYCLE OF GENERAL TRAINING						
MC1	Language training (Ukrainian language)	15	exam				
MC2	Philosophy	3	assessment				
MC3	Engineering materials science	3	exam				
MC4	Higher mathematics	17.5	exam				
MC5	Electrical engineering	3	assessment				
MC6	Descriptive geometry	3	assessment				
MC7	Programming and calculation methods	4.5	exam				
MC8	Theoretical mechanics	8.5	exam				
MC9	Thermodynamics and Heat transfer	4	assessment				
MC10	Physics	14.5	exam				
MC11	Chemistry and Basics of ecology	3	assessment				
	CYCLE OF PROFESSIONAL TRAININ	NG					
MC12	Engineering and computer graphics	3	assessment				
MC13	Aviation materials science	4	assessment				
MC14	Interchangeability and standardization	3	assessment				
MC15	Machine parts and basics of design	6	exam				
MC16		2	differential				
	Machine parts and basics of design (CP)		assessment				
MC17	Mechanics of materials and structures	9.5	exam				
MC18	Mechanisms and machinery theory	4	exam				
MC19		2	differential				
	Mechanisms and machinery theory (CP)		assessment				
MC20	Internship	3	assessment				
MC21	Bachelor's thesis (project)	9	exam				
MC22	Educational practice	3	assessment				
MC23	Language practice	6	assessment				
The total amou	int of mandatory components:	133.5	ussessment				
<u>ine totai uniou</u>	Selective components of EP	10010					
	Selective block 1						
SB1.1	Engineering basics of aerospace engineering	3	assessment				
SB1.1	Flight dynamics	35	exam				
SB1.2 SB1.3		<u> </u>	differential				
	Flight dynamics (CW)	2	assessment				
SB1 4	Fundamentals of technologies of aircraft	4.5	exam				
501.7	manufacturing and renair	т.Ј	UNUIII				
SR1 5	Fundamentals of technologies of aircraft	2	differential				
501.5	manufacturing and repair (CP)	2	assessment				
SB1.6	Aircraft maintenance	8	evam				
CR1 7		1 5	differential				
501./	Aircraft maintenance (CW)	1.5	assessment				

3.1 List of EP components

EPC code	Components of the educational program (academic	Number	Form of final
	disciplines, course projects (works), practices,	of credits	control
	qualification work)		
1	2	3	4
SB1.8	Aerohydrodynamics	4.5	exam
SB1.9	Aviation fuel and lubricant materials	3	assessment
SB1.10	Aviation ground equipment	4.5	exam
SB1.11	Aviation legislation	3	assessment
SB1.12	Hydraulics	4.5	exam
SB1.13	Aviation hydraulics and hydropneumatic devices	5.5	exam
SB1.14	Aircraft computer systems of life cycle support	6	exam
SB1.15	Construction of aircraft	6.5	exam
SB1.16	Design and strength of aircraft engines	4	exam
SB1.17	Design and strength of aircraft	4	assessment
SB1.18	Human factor	4	assessment
SB1.19	Modeling of aircraft operational processes and		exam
-	systems	4	
SB1.20	Fundamentals of flight safety	3	assessment
SB1.21	Fundamentals of aviation reliability	3	assessment
SB1.21 SB1.22	Instruments and aviation electronic systems	3	assessment
SB1.22	Life time and durability of aircraft	3	exam
SB1.25	Automatic control systems for gas turbine engines	<u> </u>	exam
SB1.24 SB1.25	Theory of heat engines	т // 5	exam
SD1.25 SD1.26	Tachnology of manufacturing and renair of aircraft	4.5	exam
SD1.20	anging	4.5	exam
SD1 27	Operation of simplets and their technologies	2.5	
501.27	Selective black 2	5.5	exam
CD2 1	Selective block 2	2	
SB2.1	A incred the section	<u> </u>	assessment
SB2.2	Aircraft diagnostics	3.5	exam
SB2.3	Flight dynamics (CW)	2	differential
GD 2 4		4.5	assessment
SB2.4	Management of aircraft maintenance processes	4.5	exam
SB2.5	Fundamentals of technologies of aircraft	2	differential
	manufacturing and repair (CP)		assessment
SB2.6	Fundamentals of tribology	8	exam
SB2.7	Aircraft maintenance	8	differential
			assessment
SB2.8	Aircraft maintenance (CW)	1.5	exam
SB2.9	Aircraft certification	3	assessment
SB2.10	Probabilistic and statistical models of aircraft	45	exam
	maintenance	1.5	
SB2.11	Efficiency of aircraft maintenance processes	3	assessment
SB2.12	Aerohydrodynamics	4.5	exam
SB2.13	Aircraft hydraulics and hydropneumatic devices	5.5	exam
SB2.14	Flight dynamics	6	exam
SB2.15	Aircraft computer systems of life cycle support	6.5	exam
SB2.16	Construction of aircraft	4	exam
SB2.17	Design and strength of aircraft engines	4	assessment
SB2.18	Design and strength of aircraft	4	assessment
SB2.19	Operational viability of the aircraft structure	4	exam
SB1.20	Modeling of aircraft operational processes and		assessment
	systems	3	
i	1 V		

EPC code	Components of the educational program (academic	Number	Form of final		
	disciplines, course projects (works), practices,	of credits	control		
	qualification work)				
1	2	3	4		
SB1.21	Fundamentals of flight safety	3	assessment		
SB1.22	Fundamentals of aircraft reliability	3	assessment		
SB1.23	Fundamentals of technical diagnostics	3	exam		
SB1.24	Promising composite materials	4	exam		
SB1.25	Continued airworthiness certification	4.5	exam		
SB1.26	Theory of heat engines	4.5	exam		
SB1.27	Aircraft engine control systems	3.5	exam		
The total amou	nt of selective components:	106.5			
TOTAL VOLU	TOTAL VOLUME OF THE EDUCATIONAL PROGRAM240				

3.2 Structural and logical scheme of EP

The structural and logical scheme of the educational program reflects the sequence of studying its components and is given in Annex A (scheme). The scheme contains mandatory components and components of selective block 1, because the block for this educational program is the basic (priority). If another selective block is selected by the applicant for higher education, the individual trajectory of study is determined and an individual plan is drawn up.

3.3 The structure of the curriculum by semesters and the content of EP components

	EDC			Formation of	
No.	EPC	Name of EP	Purpose and objectives of EP component	compe	tencies
	code	component	1 9 1	General	Profe- ssional
		I	Semester I		
1	MC1	Language	Goal: provide knowledge of phonology,	GC1	
1		training	phonetics, morphology, syntax and stylistics,	GC2	
		(Ukrainian	basic vocabulary of household and professional		
		language)	topics and basic language tools for	GCS	
			communication.	GC8	
			Task:effective implementation of acts of oral		
			and written communication during professional		
			communication with foreign partners: in		
			dialogic and monologue speech; in listening and		
			writing (abstracting; annotation; business		
	MC4	Iliahan	Correspondence).	0.01	DCC
2	IVIC4	mathematics	Goal: mastering methods that allow analytical research of mathematical models (correctness	GCI	PC6
		manematics	completeness complexity stability of solutions		
			etc.).		
			Task : study of mathematical quantities,		
			theories, methods, which in phenomena,		
			processes, bodies make it possible to investigate		
			the most general properties, abstracting from		
			those properties that are not essential.		
3	MC12	Engineering	Goal: mastering the basic provisions of	GC1	
		and computer	geometric modeling, methods of depicting	GC3	
		graphics	spatial forms on the plane, standards of design		
			documentation, mathematical and algorithmic		
			Task: development of spatial representation		
			and imagination constructive and geometric		
			thinking, ability to analyze and synthesize		
			spatial forms and relationships, study methods		
			of constructing various geometric spatial objects		
			(mainly surfaces), ways to obtain their drawings		
			at the level of graphic models and the ability to		
			solve these drawings of tasks related to spatial		
		D1	objects and their dependencies.		
4	MC10	Physics	Goal: to form students' ideas about the modern	GC1	
			physical picture of the world, to provide	GC3	
			and laws that determine the structure and		
			simplest forms of motion of matter thus		
			preparing them for a quality study of general		
			technical and special disciplines.		
			Task: study of basic patterns, methods and		
			models for further use in specialties.		

	EPC	Name of EP		Formation of comnetencies	
No.	code	component	Purpose and objectives of EP component	General	Profe- ssional
5	MC7	Programming and calculation methods	Goal: acquisition by students of knowledge about the basic characteristics of the personal computer, functions and structure of the WINDOWS operating system, functions of software shells of OS; formation of skills of skilled work with the text editor Word; study of the full cycle of program development, which includes model building, algorithm development, writing program code in an integrated environment of high-level algorithmic languages, namely editing, compiling, executing, testing and documenting programs. The purpose of training is also to provide students with knowledge of computational mathematics and the basics of mathematical modeling, developing skills to adapt standard algorithms to numerical schemes for solving complex applications, effective use of special applications - MathCAD, MATLAB to solve various engineering problems. Task: 1. To study methods of writing programs, basic algorithms, data structures. 2. Master the full cycle of program development, which includes developing a model and an algorithm, writing program code, documenting and testing the program. 3. To study the basic algorithms of modern theory of computational methods-solutions of equations, systems of algebraic equations, numerical methods of integration, approximation of functions, solutions of ordinary differential equations. Master the ways of using modern specialized application specialized application and an algorithms.	GC1 GC2 GC3	PC6
6	MC8	Theoretical mechanics	Goal: master the laws of classical mechanics and methods of analytical study of the mechanical motion of a material point, solid and mechanical system Task: study of basic concepts and laws of statics, kinematics and dynamics for use in calculations of motion and equilibrium of mechanical systems.	GC1 GC3	
7	MC23	Language practice	Goal: to provide knowledge of phonology, phonetics, morphology, syntax and stylistics, basic vocabulary of household and professional topics and basic language tools for communication.	GC1 GC2 GC5 GC8	

				Formation of	
No.	EPC	Name of EP	Purpose and objectives of EP component	compe	tencies
1.00	code	component		General	Profe- ssional
			Task: effective implementation of acts of oral and written communication during professional		
			communication with foreign partners: in		
			dialogic and monologue speech; in listening and		
			writing (abstracting; annotation; business		
			correspondence).		
0	• MC1 Language Goal: to provide knowledge of phonology			0.01	
8	mer	training	phonetics morphology syntax and stylistics	GCI	
		(Ukrainian	basic vocabulary of household and professional	GC2	
		language)	topics and basic language tools for	GC5	
		66)	communication.	GC8	
			Task:effective implementation of acts of oral		
			and written communication during professional		
			communication with foreign partners: in		
			dialogic and monologue speech; in listening and		
			writing (abstracting; annotation; business		
	SD1 1	Encincomina	correspondence).		
9	SD1.1	basics of	on the purpose and general structure of the main	GC2	
		aerospace	units and systems of aerospace engineering	GC3	
		engineering	Task: provide the necessary level of knowledge	GC6	
		88	about the purpose and general structure of		
			aerospace engineering, and its basic units and		
			systems.		
10	MC4	Higher	Goal: mastering methods that allow analytical	GC1	PC6
		mathematics	research of mathematical models (correctness,		
			completeness, complexity, stability of solutions,		
			Task : study of mathematical quantities		
			theories methods which in phenomena.		
			processes, bodies make it possible to investigate		
			the most general properties, abstracting from		
			those properties that are not essential.		
11	MC5	Electrical	Goal: formation of students' knowledge of	GC1	
		engineering	electrical engineering laws; electrical	GC2	
			terminology and symbolism; methods of	GC7	
			analysis of electric, magnetic and electronic		
			properties areas of application of basic		
			electrical and electronic equipment.		
			electrical measuring instruments; ability to		
			experimentally determine the parameters and		
			characteristics of typical electric machines;		
			practical skills of activation and operation of		
			electrical appliances and machines.		
			Task : formation a set of knowledge, skills and		
			ideas of students on the basic principles of		
			construction and application of DC electric		

L EPC	Name of EP	f EP	Forma compet	tion of tencies	
No.	code	component	Purpose and objectives of EP component	General	Profe- ssional
			machines and elements of technical electronics, their application in practical activities in the specialty.		
12	MC6	Descriptive geometry	Goal: mastering the basic provisions of geometric modeling, methods of depicting spatial forms on the plane, standards of design documentation, mathematical and algorithmic foundations of computer graphics. Task: development of spatial representation and imagination, constructive and geometric thinking, ability to analyze and synthesize spatial forms and relationships, study methods of constructing various geometric spatial objects (mainly surfaces), ways to obtain their drawings at the level of graphic models and the ability to solve tasks related to spatial objects and their dependencies based on these drawings.	GC1 GC3	
13	MC10	Physics	Goal: to form students' ideas about the modern physical picture of the world, to provide knowledge about the most important principles and laws that determine the structure and simplest forms of motion of matter, thus preparing them for a quality study of general technical and special disciplines. Task: study of basic patterns, methods and models for further use in specialties.	GC1 GC3	
14	MC11	Chemistry and basics of ecology	Goal: acquisition by students of the general idea of structure of environmental objects, mastering of the theory and practice of methods of the chemical and physicochemical analysis. Task: Acquisition by students of knowledge about features of chemical composition of natural objects; natural processes that occur with the participation of natural components, in the presence of pollutants; system of monitoring control over the condition of natural objects; indicators that determine the quality of the environment; features of chemical control of natural objects; determination of mechanisms of chemical reactions.	GC1 GC3	MC15
			III semester		
15	MC6	Engineering materials science	Goal: Study of functional properties of metallic and non-metallic structural materials and methods of their evaluation. Mastering the patterns of formation of properties and performance characteristics of materials in the process of their production, as well as in the production of parts or structural elements by influencing the composition, structure, shape	GC1 GC2 GC10	

				Forma	tion of
No.	No. EPC Name of EP	EPC Name of EP Purpose and objectives of EP component	compe	tencies	
1.00	code	component		General	Profe- ssional
			and location of structural elements and other possible factors. Task: Acquisition of some skills in the selection of structural materials based on the analysis of operating conditions of parts, determining the loads on each part, analysis of production conditions of parts and opportunities to improve properties in the production process, and analysis of costs and availability of materials.		
16	MC8	Higher mathematics	 Goal: mastering methods that allow analytical research of mathematical models (correctness, completeness, complexity, stability of solutions, etc.). Task: study of mathematical quantities, theories, methods, which in phenomena, processes, bodies make it possible to investigate the most general properties, abstracting from those properties that are not essential. 	GC1	PC6
17	MC23	Language practice	Goal: provide knowledge of phonology, phonetics, morphology, syntax and stylistics, basic vocabulary of household and professional topics and basic language tools for communication. Task:effective implementation of acts of oral and written communication during professional communication with foreign partners: in dialogic and monologue speech; in listening and writing (abstracting; annotation; business correspondence).	GC1 GC2 GC5 GC8	
18	MC1	Language training (Ukrainian language)	Goal: provide knowledge of phonology, phonetics, morphology, syntax and stylistics, basic vocabulary of household and professional topics and basic language tools for communication. Task:effective implementation of acts of oral and written communication during professional communication with foreign partners: in dialogic and monologue speech; in listening and writing (abstracting; annotation; business correspondence).	GC1 GC2 GC5 GC8	
19	SB1.14	Aircraft computer systems of life cycle support	Goal: to form students' scientific base and practical knowledge of principles and provisions of technologies of continuous information support of life cycle (LC) of aircraft (A), standards of CALS-technologies, main components of CALS-technologies and approaches to their implementation, languages and software implementing CALS -technologies and issues of practical application of CALS- technologies on the example of computer	GC1 GC2 GC3 GC7 GC10	

EDC		N CED		Forma	tion of
No.	No. EPC Name of EP Purpose and objectives of E	Purpose and objectives of EP component	compet	tencies Duofo	
	code	component		General	ssional
			integrated CAD/CAM COMPASS system. Task : the main tasks of the discipline are to teach students the theoretical foundations and scientific methods of using technologies of		
			continuous information support of the aircraft life cycle, as well as practical acquaintance of students with the main aspects of creating		
20	MC17	Mechanics of materials and	Goal: to give knowledge about modern engineering methods of calculations of structural elements and	GC1	
		structures	constructions on durability, rigidity and stability.	GC2	
			Task: be able to correctly choose the calculation scheme and apply the appropriate method of calculating structural elements, abstracting from those properties of a rigid body that are not essential in terms of stretching (compression)	GC3 GC7	
			bending, torsion, complex deformation under static and cyclic and dynamic loading		
21	MC8	Theoretical mechanics	Goal: master the laws of classical mechanics and methods of analytical study of the mechanical motion of a material point, solid and	GC1 GC3	
			mechanical system Task: study of basic concepts and laws of statics, kinematics and dynamics for use in		
			calculations of motion and equilibrium of mechanical systems.		
22	MC18	Mechanisms and	Goal: formation of a system of knowledge on the theory and methodology of analysis and	GC1	
		machinery theory	synthesis of typical mechanisms of aerospace engineering.	GC2 GC3	
			Task: mastering the basic concepts of kinematic pairs, kinematic chains of typical mechanisms;		
			methods of calculation of flat mechanisms; kinematic and force analyzes of mechanisms;		
			methods and algorithms for calculating the kinematic, dynamic characteristics of		
			mechanisms		
22	MC13	Thermodyna_	Goal: acquisition of knowledge skills and	CC1	
23	101015	mics and heat	abilities that will allow to develop simplified	GC3	
		transfer	semantic and mathematical models of	GC6	
			thermodynamics and heat transfer processes in	GC10	
			aerospace objects.	2010	
			thermodynamic analysis and optimization of		
			processes of transformation of energy types,		
			definition of the maximum possible efficiency		
			of power installations and the basic sources of		
			temperature condition of the simplest		

	EDG			Forma	tion of
No.	No. EPC	Name of EP	EPC Name of EP rede component Purpose and objectives of EP component	compe	Profo
	code	component		General	ssional
			geometrical analogues of aerospace engineering elements.		
24	MC20	Mechanics of	Goal: to give knowledge about modern engineering	GC1	
		materials and	methods of calculations of structural elements and	GC2	
		structures	constructions on durability, rigidity and stability.	GC3	
			Task: be able to correctly choose the calculation scheme and apply the appropriate method of	GC7	
			calculating structural elements abstracting from	UC/	
			those properties of a rigid body that are not		
			essential in terms of stretching (compression),		
			bending, torsion, complex deformation under		
			static and cyclic and dynamic loading.		
25	MC21	Mechanisms	Goal: formation of a system of knowledge on	GC1	
		and	the theory and methodology of analysis and	GC2	
		theory	synthesis of typical mechanisms of aerospace	GC3	
		theory	Task: mastering the basic concents of kinematic		
			nairs kinematic chains of typical mechanisms:		
			methods of calculation of flat mechanisms;		
			kinematic and force analyzes of mechanisms;		
			methods and algorithms for calculating the		
			kinematic, dynamic characteristics of		
			mechanisms		
26	MC31	Mechanisms	Goal: consolidation of knowledge gained	GC1	
		and	during the study of the course "Mechanisms and	GC2	
		machinery	machinery theory", gaining experience and	GC3	
		theory (CP)	practical skills in solving problems related to the		
			aerospace engineering		
			Task: calculation of one of the kinematic pairs.		
			kinematic circuits of a typical mechanism;		
			kinematic and force analysis of the mechanism;		
			calculation of kinematic, dynamic		
			characteristics of the mechanism.		
27	MC25	Introductory	Goal: practical mastering by students of the	GC1	PC1
		practice	works performed at operational maintenance of	GC2	PC4
			Task:	GC3	
			– Consolidation of theoretical knowledge	GC6	
			obtained during the study of the course "Design	GC8	
			of Aircraft";	GC9	
			- Study of the design of a regional aircraft	GC10	
			Acquaintance with the aircraft engine		
			design:		
			- Acquaintance with the organization of		
			aviation engineering service, maintenance,		
			operational and technical documentation, safety		
			during maintenance;		
			- Acquaintance with typical works that are		
			operational and technical documentation, safety during maintenance; – Acquaintance with typical works that are performed in the process of maintenance of		

FDC		N CED		Formation of	
No. EPC Name of EP Purpose and object	Purpose and objectives of EP component	compet	Profe		
	code	component		General	ssional
			aircraft and engines to ensure safety, regularity and efficiency of flights.		
28	MC35	Operation of	Goal: acquaintance with the airport as a	GC3	PC1
		airports and	functional system, classification of airports,	GC9	PC2
		airport	tules of their certification, basic airport	GC10	PC3
		technologies	etc.		PC4
			Task : - Study of the main functions of the		PC11
			airport as a whole and its individual services;		1011
			- Research of production processes and		
			technologies of aviation transportation services;		
	CD1.1		study of airport management systems as system.		
29	SB1.1	Aviation fuel	Goal: to gain knowledge about the chemical nature composition means of production and	GC3	PC4
		and iubricant	features of physicochemical and operational	GC9	PC7
		materials	properties of aviation and rocket fuels,	GC10	PC8
			lubricants and special (technical) liquids (fuel),		PC10
			as well as the rules of their rational use.		
			Task: The main tasks of studying the discipline		
			"Aviation fuel and lubricant materials"		
			- Scientific and engineering analysis of the		
			relationship between technology and fuel used.		
			in operation and at the stages of development		
			and testing of new equipment and new fuel.		
30	SB1.2	Aviation	Goal - mastering the basic theoretical provisions	GC3	PC4
		ground	on the principles of construction and operation	GC9	PC8
		equipment	of aviation ground equipment, which ensure the		
			during aircraft ground maintenance, flight		
			support, labor protection and the environment.		
			Task - mastering the scientific base in the field		
			of principles of construction and operation of		
			aviation ground equipment; consolidation of		
			introduction to the profession; mechanics of		
			materials and structures: providing knowledge		
			for the study of disciplines: technology of		
			ground maintenance of aircraft, aircraft		
			maintenance; intensification of education and		
			preparation of the student for the choice of field		
			and specially of practical activity in new market		
31	SB1 4	Aerohvdro-	Goal: mastering the basic principles of	GC1	PC11
51		dynamics	aerohydrodynamics and gaining knowledge	UCI	1011
		-	about the laws of motion of liquids and gases		
			and the use of these laws to calculate the flow of		
			bodies.		
			Task: to study the influence of different		
			geometric and kinematic characteristics on the		
			the influence of geometric parameters on the		

	FDC			Forma	tion of
No.	No. EPC	PC Name of EP	Purpose and objectives of EP component	compet	tencies
1.00	code	component	r alpose and objectives of Er component	General	Profe- ssional
			operation of pumps and units of aircraft systems; the nature of the aerodynamic forces acting on		
			the aircraft in flight.		
	1	I	V semester		
32	MC5	Philosophy	Goal: providing knowledge of philosophy as a	GC1	
			worldview of man, or a set of views on the world	GC2	
			as a whole and man's attitude to this world, in	GC6	
			the understanding of ontological,	GC7	
			epistemological, axiological, praxeological and	GC10	
			Teche	0010	
			Task.		
			hence responsible choice of personal		
			worldviews the ability to conduct worldview		
			dialogue:		
			- To show the patterns of genesis and formation		
			of specific historical forms of philosophy;		
			- To achieve students' mastery of philosophical		
			ways of thinking, basic philosophical principles,		
			mastering the worldview and humanistic content		
			of philosophy, mastering an independent style of		
			thinking;		
			- To cultivate the ability to apply the acquired		
			knowledge in their own lives, interpersonal		
			relationships, scientific and practical activities		
			and in the analysis of general problems of today;		
			- To promote the assertion of numanism in		
			individual		
22	MC18	Machine	Purpose: students' acquisition of knowledge	GC1	
55	MCTO	parts and	and skills, necessary for the calculation and		
		basics of	design of parts and components of aerospace		
		design	engineering.	GC/	
			Task:	GC9	
			Study of bases of calculations and designing,		
			criteria of serviceability of parts and joints of		
			machines, mastering of methods of calculation		
			of various parts, acquaintance with modern methods of designing		
34	MC27	Machine	Goal: acquisition by students of knowledge and	GC1	
54		parts and	skills, consolidation of knowledge gained during	GC3	
		basics of	the study of the course "Machine parts and		
		design (CP)	basics of design", acquisition of experience and		
			practical skills in solving problems related to the	GC9	
			design of parts and components of aerospace		
			technology		
			Task: calculation and design of one of the		
			components of aircraft engines, helicopters,		
			which is used in their manufacture.		

				Forma	tion of
No.	EPC	Name of EP	Purpose and objectives of EP component	compe	tencies
1.00	code	component	r ai pose una oxjectives or Er component	General	Profe- ssional
35	SB1.5	Aircraft	Goal: formation of a system of knowledge on	GC1	
		hydraulics	the basics of fluid dynamics and performance of	GC2	
		and	hydraulic calculations.	GC3	
		hydropneuma	Task: gaining knowledge of the basics of fluid		
		-tic devices	aynamics and skills in solving specific		
			pneumatic devices and systems.		
36	SB1.7	Aircraft	Goal: to form students' scientific base and	GC1	PC1
		computer	practical knowledge of principles and provisions	GC2	PC2
		systems of	of technologies of continuous information support of life cycle (I, C) of aircraft standards	GC3	PC6
		life cycle	of CAIS-technologies main components of	GC7	PC7
		support	CALS-technologies and approaches to their	GC10	PC10
			implementation, languages and software	0010	1010
			implementing CALS -technologies and issues of		
			practical application of CALS-technologies on		
			the example of computer integrated CAD/CAM		
			COMPASS system.		
			Task: the main tasks of the discipline are to		
			scientific methods of using technologies of		
			continuous information support of the life cycle		
			(LC) of aircraft, as well as practical		
			acquaintance of students with the main aspects		
			of creating electronic models of products.		
37	SB1.10	Design and	Goal: to give students knowledge about the	GC1	PC7
		strength of	design of aircraft on the load of the structural	GC3	
		aircraft	elements of the airframe and aircraft systems on	GC7	
			ensure strength during design and operation		
			Task: study of the discipline: to give the		
			required level of knowledge about the load of		
			the airframe structure and aircraft systems, the		
			operation of units under load, their design		
			features and strength calculations in the airframe		
			structure, their load-carrying structures,		
			technological implementation.		
38	SB1.19	Technology	Goal: to form knowledge and skills that allow to	GC1	PC9
50		of manufac-	scientifically solve problems in the production,	GC3	107
		turing and	repair and restoration of aircraft using the		
		repair of	achievements of science in the field of	000	
		aircraft	technology and production.		
		engines	- Theoretical foundations of production and		
			repair of aircraft engines:		
			- Modeling of technological and production		
			processes of restoration and repair of aircraft;		
			- Features of aircraft repair in modern economic		
			conditions;		
			- System of automated design of aircraft repair		
			processes.		

FDC		N CED		Formation of	
No.	EPC	Name of EP	Purpose and objectives of EP component	compet	tencies Duofo
	code	component		General	ssional
			VI semester		
39	MCZ	Selective	Goal: assimilation of political world and	GC1	
		humanities	domestic processes, regularities of development	GC2	
		discipline	and functioning of political science, its place and	GC6	
			role in a life of a society.	GC7	
			Task: study the essence, history, theory and methodology of political activity and hohovior	GC8	
			he able to pavigate the main world political	GC10	
			schools concepts and directions know and be	0010	
			able to characterize Ukrainian political		
			doctrines, have an idea of the essence of political		
			life, political relations and processes, the object		
			and the subject of politics.		
40	MC22	Internship	Goal: expansion and consolidation of	GC1	PC1
			knowledge acquired by students in the process	GC2	PC3
			of studying at the university on the basis of the study of aircraft equipment and technologies	GC3	PC4
			and organization of maintenance of aircraft in	GC6	PC7
			the aviation enterprise.	GC8	PC8
			Task:	GC9	PC9
			– Consolidation of theoretical knowledge	GC10	PC10
			obtained by students in the study of theoretical		PC11
			- Study of the design of regional aircraft		PC12
			and its functional systems;		1012
			- Acquaintance with the design of aircraft		
			engine;		
			- Acquaintance with the organization of		
			operational and technical documentation, safety		
			during maintenance;		
			- Acquaintance with typical works are		
			performed in the process of aircraft and their		
			engines' maintenance to ensure safety,		
41	MC28	Flight	Goal: mastering the theoretical foundations	CC1	DC1
41	1,1020	dynamics	principles of flight, design and equipment of		101
		(CW)	aircraft, which is the basis for the analysis of	UC3	
			aerodynamic forces and moments acting on the		
			aircraft during its movement in the air of		
			characteristics flight performances the impact		
			of external operating conditions, the impact of		
			the aircraft systems' equipment state on the		
			ability to perform flights and flight safety.		
			Task: mastering by students of knowledge on		
			characteristics flight performances aircraft		
			design; thrust and lifting force; general		
			characteristics of aircraft flight controls taking		
			into account the influence of external conditions		

No	EPC	EPC Name of EP	Purpose and objectives of EP component	Forma compet	tion of tencies
N0.	code	component		General	Profe- ssional
			of operational factors, basic requirements of airworthiness standards and aviation rules.		
42	MC30	Fundamen- tals of technologies of aircraft manufactu- ring and repair	 Goal: to form knowledge and skills that allow to scientifically solve modern issues of aircraft production and repair. Task: have an idea of: Theoretical foundations aircraft production and repair technologies; Technical control in the aircraft manufacture; Installation and testing of aircraft systems. 	GC1 GC2 GC3 GC7 GC8 GC9 GC10	PC4 PC7 PC8 PC10
43	MC34	Aircraft ground maintenance technologies	Goal : mastering the basic provisions for the organization of groung equipment maintenance, maintenance and repair of aircraft using groung equipment, maintaining a given level of reliability and flight safety. Task: mastering the scientific base in the field of organization and implementation of processes of maintenance of aviation transport; consolidation of previously acquired knowledge in disciplines: basics of aviation and astronautics; computer science and basics of programming; aerodynamics and flight dynamics; theory, design of aircraft and aircraft engines, etc., mastering the practical skills of maintenance and safe performance of standard maintenance works; intensification of education and preparation of the student for the choice of field and specialty of practical activity in new market conditions.	GC1 GC2 GC3 GC6 GC7 GC8 GC9 GC10	PC3 PC4 PC7 PC8 PC9 PC12
44	SB1.6	Flight dynamics	 Goal: coverage of theoretical foundations, principles of flight, design and equipment of aircraft, which is the basis for the analysis of aerodynamic forces and moments acting on the aircraft during its movement in the air of aerodynamic processes, aerodynamic characteristics, flight perfomances, the impact of external conditions of operational factors, the impact of the aircraft systems' equipment state on the ability to perform flights and flight safety. Task: mastering by students: Basic concepts and terminology of the aviation industry; General aerodynamic characteristics, flight performances, aircraft design; General principles of creation of thrust and lifting force; General characteristics of aircraft flight controls; Aircraft airframe design; Purpose of aircraft functional schemes; 	GC1 GC3	PC1

N- EPC		Name of EP		Formation of competencies	
No.	code	component	Purpose and objectives of EP component	General	Profe- ssional
			- The influence of external conditions of operational factors, the basic requirements of airworthiness standards and aviation rules.		
45	SB1.12	Modeling of aircraft operational processes and systems	Goal : to gain knowledge about modern methods of designing, constructing and modeling of aerospace objects with the help of computer integrated CAD/CAM/CAE systems and skills of working in the CAD/CAM/CAE CATIA V5 system. Task: the study of the discipline is to provide students with knowledge about the modern use of methods of designing aircraft structures using	GC1 GC2 GC3 GC7	PC6 PC11
46	SB1.17	Aircraft life time and durability	Goal: to form students' scientific base, theoretical and practical knowledge in the field of organization and implementation of processes aimed at continuing, preserving and restoring the airworthiness of aircraft according to the criterion of life time and fatigue life of their structures. Task : students gain knowledge about modern methods of calculation of the life time of aircraft structures; on ensuring and continuing fatigue life, survivability and life time in general of aircraft; acquaintance with the main provisions of the "Air Code of Ukraine", Standards of airworthiness of aircraft, certification of aircraft; consolidation of previously acquired knowledge in the following disciplines: basics of aerospace engineering; theoretical mechanics; general design of aircraft and aircraft engines, aircraft maintenance, etc; activating the motivation to study and prepare the student to choose a place of practical activity in the new market conditions.	GC1 GC2 GC3 GC7 GC10	PC1 PC2 PC6 PC7 PC10
47	SB1.18	Theory of heat engines	Goal: to study heat engines used in the aviation industry; master modern methods of technological calculations and the choice of equipment for aircraft with different target direction; to promote the expansion of horizons, the manifestation of independence in the implementation of calculations and feasibility study of technical decisions. Task: study of the conceptual apparatus of the discipline, basic theoretical principles and methods, skills to apply theoretical knowledge to solve practical problems.	GC1 GC3 GC7	PC7
40	MO10	Dratin	VII semester		F ~ (
48	MC19	economics	Goal: to give the necessary knowledge about the economic activity of the enterprise in order to organize the production (provision of services) with maximum economic efficiency.	GC1 GC2 GC3	PC1

				Forma	tion of
No	EPC	Name of EP	me of EP	compet	tencies
110.	code	component	I ut pose and objectives of E1 component	General	Profe- ssional
			Task: formation of modern managerial thinking and a system of special knowledge in the field of management and economics of enterprise, as well as practical skills of analysis and planning of indicators of economic and production activities.		
49	MC29	Fundamen-	Goal: to consolidate knowledge and skills that	GC1	PC4
		tals of	allow to scientifically solve modern issues of aircraft production and repair	GC2	PC7
		technologies	Task: to consolidate theoretical knowledge on	GC3	PC8
		manufactu-	the basics of technology for the production and	GC7	PC10
		ring and	repair of aircraft, technical control in the	GC8	
		repair (CP)	manufacture of aircraft, installation and testing	GC9	
			of alteralt systems.	GC10	
50	MC32	Aircraft	Goal: mastering the basic provisions for the	GC1	PC3
		maintenance	organization of technical operation,	GC2	PC4
			a given level of reliability and flight safety.	GC3	PC7
			Task:mastering the scientific base in the field of	GC6	PC8
			organization and implementation of processes of	GC7	PC10
			maintenance of aviation transport; consolidation	GC8	PC11
			following disciplines: basics of aviation and	GC9	PC12
			astronautics; computer science and basics of programming; aerodynamics and flight dynamics; theory, design of aircraft and engines, etc., mastering the practical skills of maintenance and safe performance of standard maintenance works; intensification of education and preparation of the student for the choice of field and specialty of practical activity in new market conditions.	GC10	
51	SB1.3	Aviation	Goal: to provide the necessary level of	GC2	PC1
		legislation	the field of organization of the regulatory	GC3	PC3
			framework of methods and procedures for	GC7	PC4
			airworthiness management at the national,		PC7
			Task: study of the discipline "Aviation Legislation" allows you to get acquainted with the basic principles and methods of international and state regulation of civil aviation, aimed at continuing airworthiness and flight safety.		PC10
52	SB1.8	Aircraft	Goal: to obtain initial knowledge of the design	GC1	PC7
		design	of airframe and functional systems of medium transport aircraft operated in civil aviation: to	GC3	
			obtain initial knowledge on maintenance of	GC7	
			aircraft and PP for further acquisition of		
			practical skills in their maintenance.		
			of airframe and functional systems of medium		

	FPC	Name of EP		Forma	tion of tencies
No.	code	component	Purpose and objectives of EP component	General	Profe- ssional
			transport aircraft operated in civil aviation; to obtain initial knowledge on maintenance of aircraft and PP for further acquisition of practical skills in their maintenance.		55101141
53	SB1.9	Design and strength of aircraft engines	Goal: to give students knowledge about the structural elements of the aircraft airframe, about ways to reduce the weight of the structure, to ensure strength during design and operation. Task: to provide knowledge about the structural elements of the aircraft airframe, about ways to reduce the weight of the structure, to ensure strength during design and operation.	GC1 GC3 GC7	PC7
54	SB1.16	Instruments and aviation electronic systems	Goal: gain knowledge of the basic laws of nature that underlie the operation of electronic systems, the principles of operation and maintenance of electronic systems of aircraft in operation; gain knowledge of maintenance for further acquisition of practical skills. Task: research on the basic laws of nature that underlie the operation of electronic systems, the principles of operation and maintenance of electronic systems of aircraft in operation.	GC1 GC2 GC3	
			VIII semester		
55	MC7	Health and safety, labor protection and civil protection	Goal: formation of a system of theoretical and applied knowledge on legal, economic and organizational issues of creating safe working conditions, human protection at work. Task: ensuring a guarantee of health and efficiency of workers in the production conditions of specific industries through effective management of labor protection and the formation of responsibility of officials and professionals for collective and personal safety; assimilation by students of the newest theories, methods and technologies for forecasting emergencies, developing their models, determining the level of risk and justification of a set of measures aimed at preventing emergencies, protection of personnel, population, material and cultural values in emergencies, localization and elimination of their consequences.	GC8 GC9 GC10	
56	MC32	Aircraft maintenance	Goal: mastering the basic provisions for the organization of technical operation, maintenance and repair of aircraft, maintaining a given level of reliability and flight safety. Task: mastering the scientific base in the field of organization and implementation of processes of maintenance of aviation transport; consolidation of previously acquired knowledge in the following disciplines: basics of aviation	GC1 GC2 GC3 GC6 GC7 GC8 GC9	PC3 PC4 PC7 PC8 PC9 PC10 PC11

				Formation of		
No.	EPC	Name of EP	Purpose and objectives of EP component	competencies		
110.	code	component	i ur pose and objectives of Er component	General	Profe- ssional	
			and astronautics; computer science and basics of programming; aerodynamics and flight dynamics; theory, design of aircraft and engines, etc., mastering the practical skills of maintenance and safe performance of standard maintenance works; intensification of education and preparation of the student for the choice of field and specialty of practical activity in new market conditions.	GC10	PC12	
57	MC33	Aircraft maintenance (CW)	Goal: mastering the basic provisions for the organization of technical operation, maintenance and repair of aircraft, maintaining a given level of reliability and flight safety. Task: mastering the scientific base in the field of organization and implementation of processes of maintenance of aviation transport; consolidation of previously acquired knowledge in the following disciplines: basics of aviation and astronautics; computer science and basics of programming; aerodynamics and flight dynamics; theory, design of aircraft and engines, etc., mastering the practical skills of maintenance work; intensification of education and preparation of the student for the choice of branch and specialty of practical activity in new market conditions.	GC1 GC2 GC3 GC6 GC7 GC8 GC9 GC10	PC3 PC4 PC7 PC8 PC10 PC11 PC12	
58	SB1.11	Human factor	 Goal: to provide a stock of theoretical knowledge and practical skills in the field of determining the causes of aviation accidents and comprehensive development of measures to prevent them. Task: study of the discipline "Human Factor" provides knowledge about: The need to ensure a high level of reliability and survivability of aircraft; requirements of aviation rules in this area to aircraft for various purposes; Basic terms and definitions of reliability and survivability of aircraft, types of aviation events and special flight situations; Features of the use of this set of knowledge in different areas of ensuring the functioning of the aviation complex; Complex of external causes of aviation events (getting into unsettled flight conditions, etc.) In details - a set of causes covered by the term "Human FACTOR"; 	GC1 GC2 GC3 GC6 GC8 GC9	PC5	

				Forma	tion of		
No.	EPC Name of EP		Purpose and objectives of EP component	competencies			
110.	code	component	Turpose and objectives of ET component	General	Profe- ssional		
			 prevent the negative impact of the human factor on the safety of operation of aircraft systems for various purposes. Methods of multicriteria analysis and methods of processing and agreeing on the opinions of several experts 				
59	SB1.13	Fundamen- tals of flight safety	Goal: to form students' scientific base and practical knowledge in the field of integrated safety at all stages of the life cycle of aircraft, starting from the first steps of project concept development, covering the following stages of sketch and working design, manufacture, testing and, most importantly, aircraft maintenance. Task : the main objectives of the discipline are to teach students the theoretical foundations and scientific methods of flight safety in civil aviation on the basis of integrated approach, the main aspects of aviation security throughout the life cycle of aircraft.	GC2 GC3 GC9	PC1 PC2 PC3 PC4 PC5 PC12		
60	SB1.14	Fundamen- tals of aircraft reliability	Goal: the purpose of teaching the discipline "Fundamentals of Aircraft Reliability" is to provide a stock of theoretical knowledge and practical skills in the field of ensuring, determining and controlling the reliability of aircraft. Task: the main tasks of studying the discipline "Fundamentals of Aircraft Reliability " are to give knowledge about: - The need to ensure a high level of reliability of the aircraft; requirements of aviation rules in this area to aircraft for various purposes; basic terms and definitions of reliability and survivability of aircraft; - Constructive, technological and operational methods to increase the reliability and survivability of airframe elements and systems of aircraft; - Laws of distribution of discrete and continuous random variables, numerical characteristics of distribution, their integral estimates; basic calculation methods of analysis of reliability and survivability of aircraft; - Principles of software development used to determine the reliability and survivability of aircraft; - Basic experimental methods for determining the aircraft reliability and survivability, the main processes that occur in aircraft damage and their consequences.	GC1 GC2 GC3 GC7	PC2 PC8 PC11 PC12		
61	SB1.15	Fundamen- tals of technical	Goal: formation of students' competencies related to the basics of determining the technical condition of aircraft and engines in general, their	GC1 GC2 GC3	PC1 PC2 PC7		

				Formation of			
No. EPC		Name of EP	Purpose and objectives of EP component	compet	tencies		
110.	code	component	Turpose and objectives of Er component	General	Profe- ssional		
		diagnostics	elements and functional systems.	GC6	PC8		
			Task: knowledge formation:	GC7	PC10		
			- On the general concepts of technical diagnosis	GC8	PC11		
			- Methods of solving diagnostic problems:		PC12		
			- Characteristics of the main elements of the				
			diagnostic system;				
			- Methods and means of diagnosing aircraft and				
			engines in general, their elements and functional				
()	MCDD	Deckeler?	systems.		DC1		
62	MC23	thesis	independent decision of complex engineering	GCI	PCI		
		(project)	problems concerning improvement of aircraft	GC3	PC5		
		(project)	maintenance and repair.	GC7	PC10		
			Task: systematization of theoretical knowledge	GC9	PC11		
			acquired in the process of studying at the		PC12		
			University, and the acquisition of practical				
			- Continuing the airworthiness of the aircraft				
			and ensuring flight safety, taking into account				
			the certification requirements for CA facilities;				
			- Engineering and statistical analysis of the state				
			and forecasting of operational and technical				
			perfection and reliability of newly created				
			aircraft; - Analysis of the organization of maintenance				
			and repair of aircraft:				
			- Assessment of the perfection of the technology				
			of aircraft maintenance and repair, diagnosing				
			its technical condition;				
			- Development of production processes and				
			repair of aircraft:				
			- Development of constructive and				
			technological measures to increase the				
			reliability and operational and repair				
			manufacturability of the aircraft;				
			- Development of organizational and technical				
			maintenance (repair) of aircraft reduce				
			operating costs, save fuel and energy resources:				
			- Generalization and use of best practices of				
			civil aviation enterprises in flight engineering				
			and technical support;				
			- work with scientific and technical literature;				
			- Assessment of technical and economic				
			efficiency of engineering decisions:				
			- Generalization of the results of design and				
			qualified defense of the bachelor's thesis.				
			- Designing joints for units and systems of				
			modern aircraft, the ability to use modern				

No.	EPC	Name of EP	Purpose and objectives of FD component	Formation of competencies		
	code	component	I ut pose and objectives of E1 component	General	Profe- ssional	
			capabilities of computer systems; - Preparing students to work in the aviation industry as a junior mechanical engineer, training and identifying their abilities to continue their studies in senior courses according to the plans of a specialist or master.			

4 Form of certification of applicants for higher education

Full-time graduates of the educational and professional program "Engineering Maintenance of Aircraft and Engines" in specialty 272 "Aviation Transport" are certified by defensing their bachelor's thesis.

Graduates of correspondence form of education under the educational and professional program "Engineering Maintenance of Aircraft and Engines" in the specialty 272 "Aviation Transport" are certified by means of an attestation exam.

Certification ends with the issuance of a standard document on the award of bachelor's degree to graduates with the qualification: Bachelor in Aviation Transport in the educational program "Engineering Maintenance of Aircraft and Engines."

Certification is carried out openly and publicly.

	Program competencies																					
Components of educational program	601	GC2	603	GC4	3 25	909	C C7	GC8	629	GC10	PC1	PC2	PC3	PC4	PC5	PC6	PC7	8Dd	PC9	PC10	PC11	PC12
MC1	+	+			+			+														
MC2	+					+		+														
MC3	+	+				+	+	+		+												
MC4	+	+		+																		
MC5	+	+				+	+			+												
MC6	+	+								+												
MC7								+	+	+												
MC8	+															+						
MC9	+	+					+															
MC10	+		+																			
MC11	+	+	+													+						
MC12	+		+																			
MC13	+		+			+			+	+												
MC14	+		+																			
MC15	+		+																			
MC16	+		+																			
MC17			+																	+		
MC18	+		+				+		+													
MC19	+	+	+								+											
MC20	+	+	+				+															
MC21	+	+	+																			
MC22	+	+	+			+		+	+	+	+		+	+			+	+	+	+	+	+
MC23	+		+				+		+		+				+					+	+	+
MC24	+	+	+			+		+	+	+	+			+						+		
MC25	+	+	+			+		+	+	+	+			+								
MC26		+	+			+																
MC27	+		+				+		+													
MC28	+		+								+											
MC29	+	+	+				+	+	+	+				+			+	+		+		
MC30	+	+	+				+	+	+	+				+			+	+		+		
MC31	+	+	+																			
MC32	+	+	+			+	+	+	+	+			+	+			+	+	+	+	+	+

5 Matrix of correspondence of program competencies to educational program components

Continuation of Table 5 **Program competencies Components of** educational program GC10 **PC12 PC10** GC4 GC5 GC6 GC8 GC9 PC5 PC6 PC8 PC9 PC11 GC1 GC2 GC3 GC7 PC2 PC3 PC4 **PC1** PC7 + + + + + + + + + + + + + + + **MC33** + + + + ++ + + + + + + + + **MC34** + + + + + + **MC35** + + + + + + + + + SB1.1 + + SB1.2 + + + + + + + + + + SB1.3 + + SB1.4 + + + SB1.5 + ++ **SB1.6** + + + + + + + + + + SB1.7 ++ + **SB1.8** +SB1.9 + + ++ + ++ +SB1.10 + + + + + + + SB1.11 + + + + + SB1.12 + + + + + + + + + + SB1.13 + + + + + + + + SB1.14 + + + + + + + + + + + + + SB1.15 SB1.16 + + + + +++SB1.17 ++++ + + SB1.18 + + SB1.19 + +

6 Matrix for providing program learning outcomes by relevant components of the educational program

	Program outcomes											
Components of educational program	PL01	PL02	PL03	PL04	PLO5	PLO6	PL07	PLO8	601d	PLO10	PL011	PL012
MC1								+				
MC2			+									
MC3		+										
MC4							+					
MC5			+									
MC6	+											
MC7				+				+				
MC8						+						
MC9								+				
MC10										+		
MC11						+						
MC12								+				
MC13								+				
MC14								+				
MC15								+				
MC16						+						
MC17										+		
MC18								+				
MC19	+											
MC20								+				
MC21								+				
MC22	+		+	+			+	+	+	+	+	+
MC23	+				+					+	+	+
MC24	+			+						+		
MC25	+			+								
MC26	+							+				
MC27								+				
MC28	+											
MC29				+			+	+		+		
MC30				+			+	+		+		
MC31								+				
MC32			+	+			+	+	+	+	+	+
MC33			+	+			+	+		+	+	+

Continuation of Table 6

					P	rogram	outcom	es				
Components of educational program	PLO1	PL02	PLO3	PL04	PLO5	901d	PL07	PLO8	PL09	PL010	PL011	PL012
MC34			+	+			+	+	+			+
MC35	+	+	+	+							+	
SB1.1				+			+	+		+		
SB1.2				+				+				
SB1.3	+		+	+			+			+		
SB1.4											+	
SB1.5												
SB1.6			+								+	
SB1.7	+	+				+	+		+			
SB1.8							+					
SB1.9							+					
SB1.10							+					
SB1.11					+							
SB1.12						+					+	
SB1.13	+	+	+	+	+							+
SB1.14		+						+			+	+
SB1.15	+	+					+	+		+	+	+
SB1.16												
SB1.17	+	+	+									+
SB1.18												
SB1.19									+			