

MINISTRY OF SCIENCE AND HIGHER EDUCATION OF THE RUSSIAN FEDERATION
Federal State Autonomous Educational Institution
higher education
NORTH CAUCASIAN FEDERAL UNIVERSITY

I APPROVE

Dean of the Faculty of Mathematics
and computer science named after
Professor N.I. Chervyakov,
Candidate of Physical and
Mathematical Sciences, Associate
Professor
Grobova T.A.

ASSESSMENT TOOLS FUND FOR DISCIPLINE

Protection of intellectual property / Защита интеллектуальной собственности"

Direction of training	02.04.01 Mathematics and Computer Science
Profile	Training Program for Electronic Information
Year of commencement of studies	<u>2026</u>
Form of study	full-time
Implemented in the 2nd semester	

Introduction

1. Purpose: The Assessment Tools Fund is intended to provide a methodological basis for organizing and conducting ongoing assessments in the course "Protection of intellectual property / Защита интеллектуальной собственности". Ongoing assessments in this course are a systematic method of assessing students' knowledge, skills, and abilities. The objectives of ongoing assessments are to obtain initial information on the progress and quality of competencies acquired, as well as to encourage regular, targeted student work. This work is intended to develop a certain level of competencies.
2. FOS is an appendix to the program of the discipline "Protection of intellectual property / Защита интеллектуальной собственности".
3. Developer: Tatyana Aleksandrovna Peleshchenko, Candidate of Technical Sciences, Associate Professor of the Department of Computational Mathematics and Cybernetics.
4. An examination of the organophosphorus compounds was carried out.
Members of the expert group:
Chairman
Babenko M. G., Head of the Department of Computational Mathematics and Cybernetics
Members of the commission:
Peleshchenko V.S., Associate Professor of the Department of Computational Mathematics and Cybernetics
Peleshchenko T. A., Associate Professor of the Department of Computational Mathematics and Cybernetics

Representative of the employer organization Kornienko S. A., head of the branch department FSUE "Main Radio Frequency Center" in the Southern and North Caucasian Federal Districts districts

Expert opinion: the fund of assessment tools corresponds to the educational program for the specialty 02.04.01 Mathematics and computer science specialization "Training Program for Electronic Information » and is recommended for conducting ongoing monitoring of students' academic performance and midterm assessment.

5. The validity period of the FOS is determined by the period of implementation of the educational program.

1. Description of the criteria for assessing competence at various stages of its development, description of assessment scales

Competence (ii), indicator (s)	Levels of development competence (s),			
	The minimum level has not been reached (Unsatisfactory) 2 points	Minimum level (satisfactorily) 3 points	Intermediate level (Fine) 4 points	High level (excellent) 5 points
<i>Competency: PC- 6 Able to use modern methods of developing and implementing specific algorithms for mathematical models based on programming languages and application software packages for modeling</i>				
Learning outcomes for the course (module): <i>Indicator:</i> <i>ID-1 PC-6</i> <i>Using modern software packages for modeling, it explores newly created mathematical models;</i> <i>ID-2 PC-6</i> <i>Uses modern methods for developing algorithms for mathematical models</i> <i>ID-3 PC-6</i> <i>Uses modern programming languages to implement specific algorithms and mathematical models</i>	Does not carry out Rational choice of methods for protecting intellectual property rights; Does not conduct patent research in the field of computing and communication systems.	Difficulty making rational choices regarding methods of protecting intellectual property rights; Has difficulty conducting patent research in the field of computing and communication systems.	Carries out rational actions with errors y choice of methods for protecting intellectual property rights Conducts patent research in the field of computing and communication systems with errors.	Carries out rational y choice of methods for protecting intellectual property rights Conducts patent research in the field of computing and communication systems

The assessment of the level of development of competence in the discipline is carried out on the basis of the "Regulations on the current monitoring of academic performance and midterm assessment of students in higher education programs - bachelor's programs, specialist programs, master's programs - at the federal state autonomous educational institution of higher education "North Caucasus Federal University" in the current version.

ASSESSMENT TOOLS FOR CHECKING THE LEVEL OF DEVELOPMENT OF COMPETENCIES

Number tasks	Correct answer	Contents of the question	Competence
		Form of study: full-time/part-time/full-time and part-time	
1.	A)	World Intellectual Property Organization (WIPO): A) is a member of the United Nations (UN); B) is a member of the World Trade Organization (WTO); B) is an independent organization.	PC- 6
2.	IN)	Which convention protects industrial property: A) Bernese; B) Roman; B) Parisian	PC- 6
3.	A)	Year of adoption of the Berne Convention: A) 1886; B) 1888; B) 1884.	PC- 6
4.	B)	In what year did WIPO begin operating? A) 1970; B) 1967; B) 1975.	PC- 6
5.	IN)	Please use the materials from the theoretical section. The following are copyrighted objects: A) Works of art, scientific discoveries; B) Literary works, ideas; B) Lectures, sermons.	PC- 6

6.	IN)	The following are protected by copyright: A) Literary works, phonograms; B) Works of fine art; B) Literary, works of fine art	PC- 6
7.	B)	The term of protection of the author's property rights: A) All my life; B) Throughout life and 70 years after death; B) Throughout life and 50 years after death	PC- 6
8.	IN)	Copyright arises: A) From the moment the idea of the work arises; B) After registration of the work and receipt of a certificate; B) From the moment of creation of the work	PC- 6
9.	IN)	Intangible assets are considered A) Money; B) Securities; B) Copyright.	PC- 6
10.	A), B), D), E)	Intellectual property objects include: A) selection achievements; B) goods and services; B) works of applied art, production secrets (know-how) of phonograms; D) brand names/logos ; D) legal entities; E) musical works	PC- 6
11.	A), B), D)	Legal protection of which objects of intellectual property arises due to the fact of their creation: A) literary works; B) inventions; B) computer photography programs; D) industrial designs;	PC- 6

		D) musical works.	
12.	A), C), D)	Legal protection of which intellectual property objects arises as a result of the provision of legal protection by an authorized government agency: A) trademarks and service marks; B) production secrets (know-how); B) selection achievements; D) inventions; D) utility models; E) literary works; G) industrial designs	PC- 6
13.	G)	The result of intellectual activity can be simultaneously used: A) by one person; B) a group of up to 10 people; B) a group of more than 10 people; D) an unlimited number of persons.	PC- 6
14.	A)	Which of the following objects is not an object of intellectual property: a selection achievement A) enterprise as a property complex; B) production secret (know-how) phonogram; B) trademark	PC- 6
15.	A), B), C)	Within the framework of intellectual property law, the following institutions can be distinguished: A) copyright and related rights , patent law, inheritance law, law of obligations; B) means of individualization of participants in civil turnover and the products (works, services) produced by them; B) protection of non-traditional intellectual property objects	PC- 6
16.	B)	The legal act that determines the technical requirements for the quality of innovative products and technologies is:	PC- 6

		A) Civil Code of the Russian Federation; B) Law on technical regulation; B) Federal Law on Science and State Scientific and Technical Policy	
17.	A)	The legal basis for regulating products and technologies of innovative entrepreneurship is established by: A) Federal Law “On Science and State Scientific and Technical Policy; B) Part IV of the Civil Code of the Russian Federation; B) Constitution of the Russian Federation	PC- 6
18.	A)	Legal regulation of the innovation process by defining the status of subjects of “objects of innovation activity” refers to the elements of influence: A) Direct; B) Combined; B) Side; C) Direct and indirect.	PC- 6
19.	A)	Which of the following organizations (programs) does not aim to promote innovative activity: A) UNESCO; B) TEMPUS; B) UN; D) TACIS	PC- 6
20.	IN)	Copyright is protected by: A) Ideas; B) Inventions; B) Works	PC- 6
21.	A), B)	The objects of related rights are: A) Movies; B) Phonograms; B) Computer programs	PC- 6

22.	A), B), C), D), E)	Under certain conditions, the object of innovative activity may be: A) Works of science; B) Computer programs; B) Databases; D) Phonograms; D) Inventions.	PC- 6
23.	A)	Validity period of a patent for an invention: A) 20 years; B) 10 years; B) 30 years; D) 50 years.	PC- 6
24.	B)	Copyright duration: A) 20 years; B) The author's entire life and 70 years after his death; C) 50 years; D) 70 years;	PC- 6
25.	A)	The concept of "intellectual property" in the Russian Federation has become widespread in scientific and legal circulation in A) 1991; B) in 2000; B) 1995; D) In 2005	PC- 6
26.	B), B)	Copyright is protected by: A) Ideas; B) Inventions; B) Works	PC- 6
27.	A)	The objects of related rights are: A) Movies;	PC- 6

		B) Phonograms; B) Computer programs	
28.	A)	Payment under a non-exclusive license agreement, received in a lump sum, after the licensed facility reaches its design capacity: A) Lump sum payment; B) Royalty; B) Interest payment; D) Combined payment	PC- 6
29.	IN)	The objects of patent law include: A) Trademark, logo and rights to computer programs; B) Computer program and invention; B) Invention, utility model and industrial design D) Industrial design and know-how.	PC- 6
30.	B)	The criteria for patenting an industrial design include: A) Appearance; B) Novelty and originality; B) Novelty, practical application and technical and economic significance; D) Technical level and novelty	PC- 6
31.	B)	Means of individualization of participants in economic turnover, goods, services: A) Utility models and industrial designs; B) Trade name, trademark, service mark, name of the place of origin of the goods; B) Trademark and service mark; D) Three-dimensional image.	PC- 6
32.	B)	Accumulation of funds for scientific research and innovation is one of the functions: A) Local government bodies; B) Innovation Fund; B) National Bank;	PC- 6

		D) Committee for the Development of Science and Technology	
33.	B)	Means of individualization of participants in economic turnover, goods, services: A) Utility models and industrial designs; B) Trade name, trademark, service mark, name of the place of origin of the goods; B) Trademark and service mark; D) Three-dimensional image	PC- 6

2. Description of the rating scale

Under the rating system, student performance in each course is assessed through ongoing assessments and midterm assessments. The student assessment system is based on a set of assessments designed to test the material covered, optimally spaced throughout the course.

3. Competency assessment criteria *

The grade "pass" is given to a student if he/she makes a rational choice regarding the methods of protecting intellectual property rights, carries out patent research in the field of computing technology and communication systems, makes a rational choice regarding the methods of protecting intellectual property rights with errors, carries out patent research in the field of computing technology and communication systems with errors, makes a rational choice regarding the methods of protecting intellectual property rights with difficulty, and carries out patent research in the field of computing technology and communication systems with difficulty.

A grade of "fail" is given to a student if he/she does not make a rational choice regarding methods of protecting intellectual property rights and does not carry out patent research in the field of computer technology and communication systems.