

Ministry of Science and Higher Education of the Russian Federation
NATIONAL RESEARCH
TOMSK STATE UNIVERSITY (NR TSU)

Institute of Applied Mathematics and Computer Science



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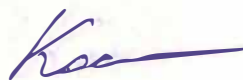
Evaluation materials of the current control and intermediate certification of the
Research Project

in the major of training
01.04.02 Applied mathematics and informatics

Orientation (profile) of training:
Big Data and Data Science

Tomsk – 2025

ET were implemented:
Dr. tech. sciences, professor,
Professor of the Department of Theoretical Foundations
of Computer Science



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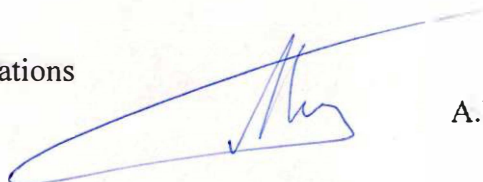
A.S. Morozova

Ph.D. physics and mathematics sciences,
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O.V. Romanovich

Reviewer:
Dr. tech. sciences, professor,
Head of the Department of Theoretical Foundations
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A.V. Zamyatin

Evaluation tools were approved at a meeting of the educational and methodological commission
of the Institute of Applied Mathematics and Computer Science (EMC IAMCS).

Protocol dated 22.05.2025 № 1

Chairman of the EMC IAMCS,
Dr. tech. sciences, Professor



S.P. Sushchenko

Evaluation tools (ET) are an element of the system for assessing the formation of competencies among students in general or at a certain stage of its formation.

The ET is developed in accordance with the work program (WP) of the discipline.

1. Competencies and training outcomes, obtained upon the discipline mastery

Competencies	Competence indicator	Code and name of planned training outcomes that characterize the stages of competency formation	Criteria for evaluating training outcomes			
			Unsatisfactory	Satisfactory	Good	Excellent
UK-2 Able to manage a project at all stages of its life cycle	ICP - 2.1 Formulates the goal of the project, substantiates its significance and feasibility	OR-1. Know: research methods	Lack of knowledge	Generally successful but not systematical ly implemented knowledge	Generally successful knowledge, but accompanied by some errors	Formed knowledge
		OR-2. Be able to: formulate the purpose and specific objectives of scientific research.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
		OR-3. Be able to: select and analyze alternative project options to achieve intended results.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
	ICM - 2.2 Develops an action program to solve project problems, taking into account available resources and limitations.	OR-1. Know: methods for assessing project effectiveness, as well as resource requirements.	Lack of knowledge	Generally successful but not systematical ly implemented knowledge	Generally successful knowledge, but accompanied by some errors	Formed knowledge
		OR-2. Be able to: draw up an individual practice plan.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanied by some errors	Formed skill

		OR-3. Possess: the skills of conducting a primary analysis of theoretical sources and achieved results on a similar problem and topic of research.	Lack of ownership	Generally successful but not systematical ly pursued possession	Generally successful, but accompanied by some errors, ownership	Formed possession
	ICP - 2.3 Ensures project implementation in accordance with established goals, deadlines and costs.	OR-1. Possess the skills to develop projects in the chosen professional field in accordance with established goals, deadlines and costs.	Lack of ownership	Generally successful but not systematical ly pursued possession	Generally successful, but accompanied by some errors, ownership	Formed possession
UK-4 Able to use modern communication technologies, including in a foreign language, for academic and professional interaction	IUC-4.1 Justifies the choice of current communication technologies (information technology, moderation, mediation, etc.) to ensure academic and professional interaction	OR-1. Be able to: justify the choice of current communication technologies	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
	IUC-4.2 Uses modern means of communication to improve the efficiency of academic and professional interaction, including in a foreign language	OR-1. Own: modern means of communication	Lack of ownership	Generally successful but not systematical ly pursued possession	Generally successful, but accompanied by some errors, ownership	Formed possession
	IUC-4.3 Evaluates the effectiveness of the use of modern communication technologies in academic and professional interactions	OR-1. Be able to: evaluate the effectiveness of the use of modern communication technologies in academic and professional interactions	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanied by some errors	Formed skill

UK-5 Able to analyze and take into account the diversity of cultures in the process of intercultural interaction	IUC-5.1 Identifies, compares, typologizes the uniqueness of cultures to develop a strategy for interaction with their carriers	OR-1. Be able to: identify, compare, typologize the uniqueness of cultures to develop a strategy for interaction with their carriers	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
	IUC-5.2 Organizes and moderates intercultural interaction	OR-1. Be able to: organize and moderate intercultural interaction	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
UK-6 Able to determine and implement the priorities of one's own activities and ways to improve them based on self-assessment	IUC-6.1 Develops a strategy for personal and professional development based on correlating one's own goals and capabilities with the development of the chosen field of professional activity.	OR-1. Be able to: determine the basic principles of professional and personal development, based on the stages of career growth and labor market requirements.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
		OR-2. Be able to: identify ways to improve your activities based on self-assessment.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
	IUC -6.2 Implements and adjusts the strategy of personal and professional development taking into account the conditions and prospects for the development of the labor market.	OR-1. Possess: the skills to solve problems of your own professional and personal development, including problems of changing your career trajectory; prioritize.	Lack of ownership	Generally successful but not systematical ly pursued possession	Generally successful, but accompanie d by some errors, ownership	Formed possession

	IUC -6.3 Evaluates the results of implementing the strategy of personal and professional development based on analysis (reflection) of one's activities and external judgments.	OR-1. Be able to: carry out self-assessment in order to improve your educational activities.	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
		OR-2. Possess: ways to manage your cognitive activity and improve it based on self-esteem and the principles of lifelong education.	Lack of ownership	Generally successful but not systematically pursued possession	Generally successful, but accompanied by some errors, ownership	Formed possession
OPK-1 Capable of solving current problems of fundamental and applied mathematics	IOPK-1.1 Analyzes problems in the field of fundamental and applied mathematics.	OR-1. Possess: skills in constructing mathematical and information models of processes and phenomena related to the object under study	Lack of ownership	Generally successful but not systematically pursued possession	Generally successful, but accompanied by some errors, ownership	Formed possession
		GPC-1.1.2 Be able to: apply scientific approaches in practical standard professional activities	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
	IOPK-1.2 Formulates the research objectives.	OR-1. Be able to: apply scientific approaches in practical standard professional activities.	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
		OR-2. Possess: the skills of conducting a primary analysis of theoretical sources and achieved results on a similar problem in the field of fundamental and applied mathematics.	Lack of ownership	Generally successful but not systematically pursued possession	Generally successful, but accompanied by some errors, ownership	Formed possession

	IOPK-1.3 Solves current problems of fundamental and applied mathematics.	OR-1. Know: scientific approaches to solving non-standard problems of professional activity.	Lack of knowledge	Generally successful but not systematical ly implemente d knowledge	Generally successful knowledge, but accompanie d by some errors	Formed knowledge
		OR-2. Be able to: Solve current problems of fundamental and applied mathematics.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
OPK-2 Capable of improving and implementing new mathematical methods for solving applied problems	IOPK-2.1 Uses the results of applied mathematics to master and adapt new methods for solving problems in the area of their professional interests.	OR-1. Be able to: justify the choice of modern intelligent technologies and software environment when developing original software tools for solving professional problems.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
		OR-2. Possess: the skills of using the results of applied mathematics to master and adapt new methods for solving problems in the area of one's professional interests.	Lack of ownership	Generally successful but not systematical ly pursued possession	Generally successful, but accompanie d by some errors, ownership	Formed possession
	IOPK-2.2 Implements and improves new methods for solving applied problems in the field of professional activity	OR-1. Own: new methods and solutions to applied problems	Lack of ownership	Generally successful but not systematical ly pursued possession	Generally successful, but accompanie d by some errors, ownership	Formed possession
		OR-2. Be able to: improve new methods and solutions to applied problems	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill

	IOPK-2.3 Conducts qualitative and quantitative analysis of the resulting solution in order to construct the optimal option	OR-1. Be able to: conduct qualitative and quantitative analysis of the resulting solution in order to construct the optimal option	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
OPK-3 Able to develop mathematical models and analyze them when solving problems in the field of professional activity	IOPK-3.1 Develops mathematical models in the field of applied mathematics and computer science	OR-1. Be able to: develop mathematical models in the field of applied mathematics and computer science	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
	IOPK-3.2 Analyzes mathematical models for solving applied problems of professional activity	OR-1. Be able to: analyze mathematical models to solve applied problems	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
	IOPK-3.3 Develops and analyzes new mathematical models for solving applied problems of professional activity in the field of applied mathematics and computer science	OR-1. Be able to: develop and analyze new mathematical models for solving applied problems	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
OPK-4 Able to combine and adapt existing information and communication technologies to solve problems in the field of professional	IOPK-4.1 Analyzes problems of applied mathematics and computer science using information technology	OR-1. Proficient in: analyzing problems of applied mathematics and computer science using information technology	Lack of ownership	Generally successful but not systematically pursued possession	Generally successful, but accompanied by some errors, ownership	Formed possession

activity, taking into account information security requirements	IOPK-4.2 Takes into account the basic information security requirements	OR-1. Be able to: take into account basic information security requirements	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
	IOPK-4.3 Uses modern information and communication technologies to solve problems in the field of applied mathematics and computer science, taking into account information security requirements	OR-1. Possess: modern information and communication technologies for solving problems in the field of applied mathematics and computer science, taking into account information security requirements	Lack of ownership	Generally successful but not systematical ly pursued possession	Generally successful, but accompanie d by some errors, ownership	Formed possession
PC-1. Able to develop and apply mathematical methods, algorithms, software to solve problems in research and design activities.	IPC -1.1 Analyzes the tasks of research and design activities in order to select mathematical and algorithmic tools.	OR-1. Be able to: analyze the tasks of research and design activities in order to select mathematical and algorithmic tools.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
		OR-2. Possess: skills in using mathematical methods, algorithms, software to solve problems in research and design activities.	Lack of ownership	Generally successful but not systematical ly pursued possession	Generally successful, but accompanie d by some errors, ownership	Formed possession

	IPC -1.2 Develops new methods, models, algorithms and software for solving problems in the field of professional activity.	OR-1. Be able to: apply existing mathematical methods, algorithms and software to solve problems in the field of professional activity.	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
	IPK-1.3 Develops new methods, models, algorithms and software for solving problems in the field of professional activity	OR-1. Be able to: develop new methods, models, algorithms and software to solve problems in the field of professional activity	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
PC-2 Capable of carrying out research developments in the study of independent topics, as well as topics determined by the customer, obtaining new scientific and applied results independently and as part of a scientific team.	IPC -2.1 Analyzes research topics in order to clearly define research objectives and study the subject area.	OR-1. Be able to: conduct a primary analysis of theoretical sources and achieved results on a similar problem.	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
		OR-2. Be able to: compile a bibliography on the research topic.	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
		OR-3. Be able to: analyze research topics in order to clearly define research objectives and study the subject area.	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill

	IPC -2.2 Decomposes the research development process into stages and is able to clearly define the goals and objectives of each stage.	OR-1. Know: Stages of the R&D process.	Lack of knowledge	Generally successful but not systematical ly implemente d knowledge	Generally successful knowledge, but accompanie d by some errors	Formed knowledge
		OR-2. Be able to: determine the goals and objectives of each stage.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
	IPC -2.3 Able to obtain new scientific and applied results independently and as part of a scientific team.	OR-1. Be able to: formulate new scientific and applied results independently and as part of a scientific team.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
PC-3 Able to present the results of scientific research, draw up technical documentation at various stages of project development.	IPK -3.1 Can clearly and clearly describe the scientific results obtained, providing evidence, arguments, and examples of implementation.	OR-1. Be able to: accurately describe the scientific results obtained, providing evidence, arguments, and examples of implementation.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
		OR-2. Be able to: describe the methodology and technology of design.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
	IPK -3.2 Able to prepare technical documentation, reports on research and development, in	OR-1. Be able to: write a report on the internship.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill

PC-4 Able to identify a problem situation, set problems for data analysis in social sciences, select mathematical and hardware tools to solve them	accordance with current standards for the preparation of technical documentation.	OR-2. Possess: skills in developing documents and planning work to create a project.	Lack of ownership	Generally successful but not systematical ly pursued possession	Generally successful, but accompanie d by some errors, ownership	Formed possession
	IPC -3.3 Capable of writing articles, reviews, incl. in English	OR-1. Be able to: analyze sources and achieved results on a similar problem.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
		OR-2. Be able to: prepare articles, do literature reviews, incl. in English.	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
	IPK-4.1 Provides an assessment of the behavior of society or its individual groups based on data analysis	OR-1. Be able to: assess the behavior of society or its individual groups based on data analysis	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
	IPK-4.2 Collects information from the Internet, incl. from social networks, and processes it	OR-1. Be able to: collect and process information from the Internet	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
	IPK-4.3 Analyzes the information received and finds hidden patterns	OR-1. Be able to: analyze the information received and find hidden patterns	Lack of skill	Generally successful but not systematical ly practiced skill	A generally successful skill, but accompanie d by some errors	Formed skill
PC-5 Able to select methods, draw up	IPK-5.1 Uses modern information	OR-1. Own: modern information processing technologies when solving problems of industrial data	Lack of ownership	Generally successful but not	Generally successful, but	Formed possession

technical specifications and develop algorithms for solving problems of industrial data analysis PC-6 Capable of managing the receipt, storage, transmission, and processing of big data	processing technologies and computer technology when solving problems of industrial data analysis	analysis		systematically pursued possession	accompanied by some errors, ownership	
	IPK-5.2 Able to collect industrial data, knows the specifics of such data	OR-1. Be able to: collect industrial data	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
		OR-2. Know: the specifics of industrial data	Lack of knowledge	Generally successful but not systematically implemented knowledge	Generally successful knowledge, but accompanied by some errors	Formed knowledge
	IPC-5.3 Draws up technical specifications for a task in a professional area	OR-1. Be able to: draw up technical specifications for a task in a professional area	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
	IPK-6.1 Monitors and evaluates big data processing performance	OR-1. Be able to: monitor and evaluate big data processing performance	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill
	IPK-6.2 Uses methods and tools for receiving, storing, transmitting, and processing big data	OR-1. Proficient in: methods and tools for receiving, storing, transmitting, processing big data	Lack of ownership	Generally successful but not systematically pursued possession	Generally successful, but accompanied by some errors, ownership	Formed possession
	IPK-6.3 Develops proposals to improve the performance of big data processing	OR-1. Be able to: develop proposals for improving the performance of big data processing	Lack of skill	Generally successful but not systematically practiced skill	A generally successful skill, but accompanied by some errors	Formed skill

2. Stages of competency formation and types of evaluation tools

№	Stages of competency formation (discipline sections)	Code and name of training outcomes	Type of evaluation tool (tests, assignments, cases, questions, etc.)
1	Drawing up a practice plan, analyzing design and scientific documentation	IUK - 2.1: OR-1, OR-2, OR-3, IUK - 2.2: OR-1, OR-2, OR-3, IUK - 2.3: OR-1, IUK - 6.1: OR-1, OR-2, IUC - 6.2: OR-1, IUC - 6.3: OR-1, OR-2	Approved practice plan
2	Carrying out work 1. Software architecture design 2. Programming and debugging 3. Testing and, if necessary, conducting a computational experiment	IOPK-1.1: OR-1, IOPK-1.2: OR-1, OR-2, IOPK-1.3: OR-1, OR-2, IOPK-2.1: OR-1, OR-2, IOPK-1.1: OR-1, OR-2, IPK- 1.2: OR-1, IPK-1.3: OR-1	Artifacts relevant to the research topic
3	Registration of results	IPK-2.1: OR-1, OR-2, OR-3, IPK-2.2: OR-1, OR-2, IPK-2.3: OR-1	Text of the practice report
4	Protecting your results	IPK-3.1: OR-1, OR-2, IPK-3.2: OR-1, OR-2, IPK-3.3: OR-1, OR-2	Presentation reflecting the main results, defense of the results of practice at the department's seminar

3. Typical control tasks or other materials necessary for the assessment of educational training outcomes

3.1. Typical tasks for conducting ongoing monitoring of progress in the discipline

Current monitoring of progress is carried out by the head of the research work based on the results of discussion with the student of the stages of the research work.

3.2. Typical tasks for conducting intermediate certification in the discipline.

Intermediate certification is carried out in the form of a test with assessment by students publicly defending individual reports on their internship before the commission.

4. Methodological materials that determine the procedures for evaluating training outcomes

4.1. Methodological materials for assessing the current control of progress in the discipline.

Current monitoring of progress is carried out by the head of the research work based on the results of the contact work between the student and the scientific supervisor and based on the results of a discussion with the student about the stages of the research work.

4.2. Methodological materials for conducting intermediate certification in the discipline.

The results of the internship are determined by grades “excellent”, “good”, “satisfactory”, “unsatisfactory” in accordance with the table below.

unsatisfactory	satisfactory	good	excellent
The student did not provide an individual report on the internship	The student provided a report. At the public defense he showed poor knowledge in the	The student provided a report. At the public defense he showed good knowledge in	The student provided a report. At the public defense he showed deep knowledge in the

	subject area	the subject area	subject area
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Basic requirements for a research report

General recommendations for content. The report usually contains the following parts (optional components are marked with an asterisk): title page; content (table of contents); introduction; the main part, consisting of numbered sections, subsections of paragraphs, etc.; conclusion; list of sources used; applications*.

The content includes the names of all sections, subsections, introduction, conclusion, list of sources and literature used, names of appendices indicating the page numbers from which these elements of the report begin. In the introduction, you should clearly and convincingly formulate the relevance, novelty and practical significance of the topic, writing the wording of each indicator of the quality of work in paragraph indentation. The introduction is a very important part, since the introduction not only provides guidance in the further development of the topic, but also contains all the necessary qualifying characteristics of the work: the relevance of the chosen topic; purpose and objectives of the study; object and subject of research; analysis of the source base; degree of study of the topic. The length of the introduction is no more than 3 pages. The sections of the main part of the report discuss in detail the research methodology and technique, present and summarize the results. The main part of the report should contain sections reflecting the content and results of work to complete the task. The sections should contain a statement of the main premises of the study, the principles underlying the research or development, describe the methodology, and the main key points of the study. Sections should end with a discussion of the results, which, in addition to summing up the work performed with justification for the choice of solutions, should contain the paths and forecasts for further research on the topic outlined by the author.

The content of the sections of the main part must exactly correspond to the topic of the research work and fully disclose it. These sections should demonstrate the student's ability to present the material concisely, logically and reasonably.

The conclusion should contain brief conclusions based on the research results, reflecting the novelty and practical significance of the work, and proposals for using its results. The conclusion is no more than 3-5 pages.

The list should contain information about the sources (literature) used in compiling the report. Information about sources must be prepared in accordance with the requirements:

1. GOST 7.1 – 2003. Full text on the website <http://www.bookchamber.ru/gost.htm>;
2. GOST R 7.0.5 – 2008. <http://science.tsu.ru/rus/Metro/GOST%20P%207.0.5-2008.pdf>

It is recommended to include materials in appendices that for some reason cannot be included in the main part. Applications may include: intermediate mathematical proofs, formulas and calculations; auxiliary numerical data tables; supporting illustrations; lists of program source files; lists of program files supplied to the user; lists of test files for the program; a guide to installing the program on your computer; a guide to generating a program from source code; acts of implementation of work results, etc.

Requirements for the report

The report should reflect the following main points:

- Objective;
- theoretical background of the study;
- justification for the choice of research method;

- presentation of the main results of the work;
- prospects for further development of the topic;
- brief conclusions on the results of the work that determine its practical significance, the degree and nature of the novelty of the elements of the scientific contribution.

Grade	Evaluation criteria
excellent	It is awarded if the master has shown a creative attitude towards the internship, actively participated in the scientific and technical seminar, and fulfilled all the requirements of the internship program. The topic is well researched, the research is based on an analysis of the situation on this issue, and the author of the work has demonstrated the necessary skills in analyzing sources. The text of the report consists of a theoretical section and a description of practical implementation, which demonstrates the acquired skills in using modern information technologies and methods for building information systems. The work has a clear internal logical structure. During the report, the author confidently and convincingly responded to the comments of the seminar participants.
good	It is awarded if the master has shown a creative attitude towards the internship, actively participated in the scientific and technical seminar, and fulfilled all the requirements of the internship program. The topic is well researched, the research is based on an analysis of the situation on this issue, and the author of the work has demonstrated the necessary skills in analyzing sources. The text of the report consists of a theoretical section and a description of practical implementation, which demonstrates the acquired skills in using modern information technologies and methods for building information systems. The work has a clear internal logical structure. During the report, the author confidently and convincingly responded to the comments of the seminar participants. At the same time, the work contains a number of shortcomings that are not fundamental.
satisfactory	Issued if the master has fulfilled all the requirements of the internship program, but

	during the internship he often missed meetings of the scientific and technical seminar. Demonstrated poor knowledge of some scientific problems within the scope of the topic; significant factual errors were made during the presentation of the work, in the text, and in the presented presentation materials. In the absence of a clear formulation of the relevance, goals and objectives of the research work. The work does not fully comply with all the formal requirements for this type of work.
unsatisfactory	Issued if the master has not fulfilled all the requirements of the internship program and did not attend meetings of the scientific and technical seminar during the internship. in the process of reporting the work, facts of plagiarism of the main results of the work were revealed, the discrepancy between the results stated in the report and the real state of affairs, the unsubstantiation of statements, achievements and developments that were quite important for this work.