

**Attestation procedure
in the discipline "Botany"
for students of 2023 year of admission
on the educational program
33.05.01. Pharmacy, (speciality),
full-time form of education
2024- 2025 academic year**

It is developed on the basis of "Regulations on the forms, frequency, procedure of current control of academic performance and interim certification, as well as point-rating system of evaluation of students' academic performance of FSBEI VO VolgGMU of the Ministry of Health of Russia (order of approval from 19.06.2024 11034-KO). Training in the discipline is carried out during two semesters. Forms of current certification: testing, assessment of mastering practical skills (abilities), interview on control questions.

The specific form of control of the level of formed competences for each lesson is specified in the methodological recommendations for the study of the discipline. Current certification of students is carried out at each lesson in the form of oral questioning and test control. At the end of the theoretical study of the discipline at the last lesson is carried out assessment of theoretical knowledge (testing) and assessment of practical skills. Intermediate certification of the discipline is carried out in the form of an exam.

The final rating on the discipline (Rd) is calculated according to the following formula:

$$Rd = (R_{prev} + R_{spec_teor} + R_{spec_pn} + R_{pa}) / n,$$

Where:

Rd - final rating for the discipline - individual assessment of the study of the discipline, taking into account interim certification;

R_{prev} - preliminary rating for the discipline for all semesters of study;

R_{spec_theor} - specialised rating (assessment of theoretical knowledge (final testing), conducted at the last session);

R_{spec_pn} - specialised rating (assessment of skills, practical skills, conducted at the last lesson);

R_{pa} - rating of interim certification on discipline/practice (credit, credit with a grade, exam);

n - number of rating components in the formula.

In this case:

$$R_{predv} = (R_{sem1} + R_{sem2}) / 2, R_{sem} = (R_{tek} + R_{sro}) / 2 + R_b - R_{sh}$$

where R_{tek} - current rating on the discipline;

R_{sro} - rating of independent work of the student within the discipline;

R_{sem} - semester rating on the discipline;

R_b - rating of bonuses;

R_{sh} - rating of penalties;

n - number of semesters of study of the discipline.

The minimum number of points in the 100-point system, at which one or another component of the rating is counted as passed, is 61 points, the maximum number is 100 points.

Methodology of evaluation and calculation of the current rating in a semester (Rtek). The current rating in the semester is calculated as the arithmetic mean of all the grades received by the student for the semester of study of the discipline. The performance of the student activities of current progress control is assessed by the teacher at each session of the seminar type on a classical 5-point scale, where: 2 - unsatisfactory; 3 - satisfactory; 4 - good; 5 - excellent.

Approximate criteria for the most common forms of current control are given in Table 1

Table 1: Approximate criteria for the most common forms of current control

Job type	Evaluation criteria
Tests	<ul style="list-style-type: none"> • - Number of correct answers
Interview	<ul style="list-style-type: none"> • - Faithfulness of the answer - • Completeness of the answer • - Structure and logic of the answer
Practical skills	<ul style="list-style-type: none"> • - Knowledge of theoretical bases of skill performance • - Compliance with the technique of skill performance • - Confidence in skill performance
Situational tasks, cases	<ul style="list-style-type: none"> • - Correctness of the received answer • - Correctness of the choice of the tool for solving/performing the task - Correctness of the sequence of actions for solving/performing the task
Control tasks	<ul style="list-style-type: none"> • - Number of correctly completed tasks

At the end of each semester of the discipline, Rtek is calculated and the calculated value is converted into a 100-point scale according to Table 2..

Table 2. Conversion of the student's current grade point average into a rating score according to the 100-point system

Average score according to the 5-point system	Score according to the 100-point system	Average score according to the 5-point system	Score according to the 100-point system	Average score according to the 5-point system	Score according to the 100-point system
5.0	100	4.0	76-78	2.9	57-60
4.9	98-99	3.9	75	2.8	53-56
4.8	96-97	3.8	74	2.7	49-52
4.7	94-95	3.7	73	2.6	45-48
4.6	92-93	3.6	72	2.5	41-44
4.5	91	3.5	71	2.4	36-40
4.4	88-90	3.4	69-70	2.3	31-35
4.3	85-87	3.3	67-68	2.2	21-30
4.2	82-84	3.2	65-66	2.1	11-20
4.1	79-81	3.1	63- 64	2.0	0-10

		3.0	61–62		
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The absence of current debt is considered the value of Rtek more than 61 points.

Rating independent work student in the semester is calculated as the arithmetic mean of all grades received by the student for the implementation of independent work (IW). IW includes independent study of individual topics in the total amount of hours provided by the curriculum. Evaluation of IW is carried out on a classical 5-point scale, where: 2 - unsatisfactory; 3 - satisfactory; 4 - good; 5 - excellent. Approximate criteria for generalised evaluation of IW are given in Table 3.

Table 3. Approximate criteria for generalised evaluation of IW

Job type	Evaluation criteria
IW in the form of an e-course/course element on VolgGSMU EIOP	<ul style="list-style-type: none"> - Compliance with deadlines - Completeness of study - Completeness of assignments - Fulfilment of stipulated tasks
IW in the form of an essay, outline, presentation	<ol style="list-style-type: none"> 1. Technical evaluation: <ul style="list-style-type: none"> - Compliance with deadlines - Compliance with design requirements 2. content assessment: <ul style="list-style-type: none"> - Relevance of the content to the topic - The fact that the topic has been covered - Reflection of all the necessary elements of the assignment in the work - Existence of the structure and logic of the work - Conformity of the style of the text to the type of work. 3. Evaluation of the learner's analytical work: <ul style="list-style-type: none"> - Adequacy of the choice of sources - Level of analysis (in-depth/surface) - Analytical tools and presentation of conclusions (including the use of diagrams, examples, illustrations, graphs, etc.).

Specific criteria for assessing the IW on the discipline are established in the fund of assessment means of the discipline.

At the end of each semester of study of the discipline the Rsro of the student is calculated with the conversion of its calculated value into a 100-point scale according to Table 2.

The absence of current arrears is considered to be the value of Rsro more than 61 points.

Rating of bonuses and penalties in the discipline of Botany (Rb - rating of bonuses; Rsh - rating of penalties) is calculated as the sum of bonuses and penalties, which are given in Table 4

Table 4: Bonuses and penalties by discipline

Bonuses	Name	Points
Research and development	1) Preparation of an abstract report using	+0,5-2,0

Methodology for calculating the rating of intermediate attestation (Rpa).

Intermediate attestation of the discipline is carried out in the form established by the curriculum (credit, credit with a grade, exam). Evaluation means and the order of intermediate certification are established in the fund of evaluation means of the discipline. Assessment of the level of formation of the necessary competences of the student is carried out according to the criteria of Table 5.

Table 5: Criteria for assessing the level of mastery of the discipline material and competencies formed

Response Characterization	Assessment ECTS	Points	Level of competence in the discipline	Assessment
A full, detailed answer to the question, a set of conscious knowledge about the object is shown, manifested in the free operation of concepts, the ability to identify its essential and non-essential features, cause-and-effect relationships. Knowledge about the object is demonstrated against the background of understanding it in the system of the given science and interdisciplinary relations. The answer is formulated in terms of science, presented in literary language, logical, evidentiary, demonstrates the author's position of the student. The student demonstrates an advanced high level of competence.	A	100–96	HIGH	5 (5+)
A full, detailed answer to the question, a set of conscious knowledge about the object is shown, the main provisions of the topic are evidently disclosed; the answer has a clear structure, logical sequence, reflecting the essence of the concepts, theories, phenomena disclosed. Knowledge of the object is demonstrated against the background of understanding it in the system of this science and interdisciplinary relations. The answer is presented in literary language in terms of science. There may be flaws in the definition of concepts, corrected by the student independently in the process of answering. The student demonstrates an advanced level of competence.	B	95–91		5
A full, detailed answer to the question, the ability to identify essential and non-essential features, cause-and-effect relationships is shown. The answer is clearly structured, logical, written in literary language	C	90–81	MEDIUM	4

in terms of science. There may be flaws or minor errors, corrected by the student with the help of the teacher. The student demonstrates a sufficient level of competence.				
A full, detailed answer to the question, the ability to identify essential and non-essential features, cause-and-effect relationships is shown. The answer is clearly structured, logical, stated in terms of science. However, there are minor errors or mistakes, corrected by the student with the help of "leading" questions of the teacher. The student demonstrates an average level of competence.	D	80-76		4 (4-)
The answer to the question is complete but not consistent enough, but it shows the ability to identify essential and non-essential features and cause-and-effect relationships. The answer is logical and stated in terms of science. There may be 1-2 errors in the definition of basic concepts, which the student finds it difficult to correct independently. The student demonstrates a low level of competence.	E	75-71		3 (3+)
The answer is insufficiently complete and insufficiently detailed. The logic and sequence of presentation have violations. There are errors in the disclosure of concepts, use of terms. The student is not able to independently identify essential and nonessential features and cause-and-effect relationships. The learner can concretize generalized knowledge, proving by examples their main provisions only with the help of the teacher. Speech design requires corrections, adjustments. The student demonstrates the threshold level of competence formation.	E	70-66	LOW	3
The answer is incomplete, the logic and sequence of presentation have significant violations. There are gross errors in determining the essence of the disclosed concepts, theories, phenomena, due to the student's lack of understanding of their essential and nonessential features and relationships. There are no conclusions in the answer. The ability to reveal specific manifestations of generalized knowledge is not shown. Speech design requires corrections, corrections.	E	65-61	EXTREMELY LOW	3 (3-)

The student demonstrates an extremely low level of competence formation.				
The answer is incomplete, representing scattered knowledge on the topic of the question with significant errors in definitions. There is fragmentation, illogicality of presentation. The student does not realize the connection of this concept, theory, phenomenon with other objects of the discipline. There are no conclusions, concretization and evidence of presentation. Speech is illiterate. Additional and clarifying questions of the teacher do not lead to correction of the student's answer not only to the question posed, but also to other questions of the discipline. The student demonstrates an insufficient level of competence.	Fx	60-41		2
No answers are received on the basic questions of the discipline. The student does not demonstrate indicators of achievement of the formation of competencies. The competence is absent.	F	40-0	COMPETENCY OUTSIDE	2

5. System of bonuses (Rb) and penalties (Rsh)

In this order of evaluation of the final rating score for the discipline provides bonuses that increase the rating score and penalties that reduce the rating, according to the table below (see Table 5).

Table 5: Bonuses and penalties by discipline

№	Bonuses	Points
1.	Preparing and presenting an abstract in class	+0,1-0,5
2.	Preparation and presentation of the abstract at the scientific and abstract conference at the department	+0,3-1,0
3.	Preparation and presentation of an abstract at the university scientific abstract conference	+0,5-1,5
4.	Preparation of an abstract report using scientific literature in a foreign language	+0,5-2,0
5.	Participation in the scientific student circle at the department (according to the results of work):	+3,0

6.	1) presentation of a report at a scientific conference (If co-authored, the points are divided by the number of authors)	
	local level	+1,0
	regional level	+2,0
	national level	+3,0
	international level	+4,0
	-Winner of the 1st place,	+5,0
	2nd place;	+4,0
	3rd place	+3,0
	commended	+2,0
	2) participation in the research and preparation of the report (no presentation)	+1,0
	3) publications in print (If co-authored, the points are divided by the number of authors)	
	- abstracts of a report at a scientific conference	+1,0
	- article in the proceedings of a scientific conference	
	local level	+1,0
	regional level	+2,0
	national level	+3,0
	international level	+4,0
	- articles	
	in journals and collections indexed in RSCI	+5,0
	in VAK list journals	+10,0
	in journals indexed in Scopus database	+15,0
7.	Preparation of visual aids for the department	+1,0
	Types of fines	Points
1.	Absence from 1 lecture without a valid excuse	-0,1
2.	Absence from 1 practical training session without a valid excuse	-0,2
3.	Failure of a student to complete a practical training session in a timely manner (before the next final session)	-0,2
4.	One unsatisfactory grade at the final control session	-0,2
5.	Failure to hand in 1 independent extracurricular work on time	-0,2
6.	Violation of safety precautions during the practical part of the lesson	-2,0
7.	Damage to equipment and property	-2,0

Considered at the meeting of the Department of Pharmaceutical, Toxicological Chemistry, Pharmacognosy and Botany "28" August 2024, Minutes № 1.

Head of the Department of Pharmaceutical,
Toxicological Chemistry, Pharmacognosy
and Botany, Professor



A.A.Ozerov