

**Attestation procedure
in the discipline "Botany"
for students of the educational program
specialist
in the specialty 33.05.01 Pharmacy,
form of study full-time education
for the 2023-2024 academic year**

Developed on the basis of "Regulations on the point-rating system of evaluation of students' progress in the Federal State Budgetary Educational Institution of Higher Education "Volgograd State Medical University" of the Ministry of Health of the Russian Federation" (order of enactment № 381-KM of March 16, 2017) and "Regulations on the forms, frequency and procedure of current control of progress and interim certification of students, as well as the expulsion of students in the Federal State Budgetary Educational Institution of Higher Education "Volgograd State Medical University" of the Ministry of Health of Russia" (adopted by the Ministry of Health of Russia).

Procedure of interim certification in the discipline "Botany"

Intermediate certification in the discipline "Botany" is conducted in the form of an exam. The exam is held in three stages. At the first stage, students are tested to assess the basic mastering of the discipline. For this purpose, the department of the discipline "Botany" developed 10 variants of tests, including 100 test tasks.

Then the students' mastering of practical skills is checked. Checking the mastering of practical skills is carried out on separate tickets. Each ticket includes identification of 5 species of proposed plants by herbarium and 1 microdrug from the list of evaluation means for intermediate certification.

The third stage is an interview on theoretical questions and is conducted on tickets. Each ticket includes three theoretical questions from the list of questions for the exam, some of which are submitted for independent study in the process of mastering the discipline, so the tickets can be used to assess the student's independent work, assessment of the formation of skills of using information technology and assessment of the formation of professional competencies.

The student has the right to 2 retakes within the terms specified in the schedule of examinations and retakes.

Calculation of the rating for the discipline "Botany"

R₀ – rating of the discipline final - individual cumulative assessment of mastering the discipline in points, taking into account interim certification, the

maximum number of points - 100, the minimum number of points at which the discipline can be credited - 61 (see table 1).

Rating for the discipline final (Rd) is calculated according to the following formula:

$$Rd = (Rdcp + Rna) / 2$$

Rd – final rating for the discipline

Rna – rating of interim certification (exam)

Rdcp – average rating of the discipline for 2 semesters of study -

individual assessment of learning the discipline in points for 2 semesters of study.

Table 1: Final grade for the discipline

100-point rating	assessment on a pass-fail basis	5-point rating	оценка по ECTS
96-100	Credit	5	A
91-95	Credit	5	B
81-90	Credit	4	C
76-80	Credit	4	D
61-75	Credit	3	E
41-60	uncredited	2	Fx
0-40	uncredited	2	F

The average rating of a discipline is calculated using the following formula:

$$R_{\partial cp} = (R_{npe\partial 3} + R_{npe\partial 4}) / 2$$

R_{npe∂3} - rating for the discipline in the third semester preliminary;

R_{npe∂4} - rating for the discipline in the fourth semester is preliminary.

Rating for the discipline in the third semester preliminary (there is no interim certification in this semester) is calculated according to the following formula:

$$R_{npe\partial 3} = R_{mek3} + R_{\partial} - R_{u};$$

R_{mek3} - current rating (current academic performance, assessed by the average score on a 5-point scale) for the 3rd semester;

R_∂ – bonus rating;

R_u – penalty rating.

Rating for the discipline in the fourth semester preliminary (this semester provides for final testing) is calculated according to the following formula:

$$R_{npe\partial 4} = (R_{mek4} + R_{mecm}) / 2 + R_{\partial} - R_{u};$$

R_{mek} - current rating (current academic performance, assessed by the average score on a 5-point scale) for the 4th semester;

R_{mecm} - rating for final testing in the 4th semester;

R_∂ – bonus rating;

R_u – penalty rating.

Calculation algorithm

1. Methodology for calculating the average grade point average of current academic performance (*R_{mek}*)

The current rating of the discipline is evaluated summarily, taking into account the current academic performance, which is assessed by the average score, taking into account the assessment for independent work.

Knowledge and work of the student in practical classes are evaluated by the teacher in the semester, according to the classical 5-point system.

Independent work of students includes writing notes on each topic in accordance with the plan. Each topic of independent work is evaluated by a mark in the journal pass/fail.

At the end of the semester, a centralized calculation of the average grade point of the student's performance in the semester is made with its conversion into a 100-point system (according to Table 2).

Таблица 2. Перевод среднего балла текущей успеваемости студента в рейтинговый балл по 100-балльной системе

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		

2. Methodology of scoring for testing in the semester (Rmest)

The minimum number of points that can be obtained during the test is 61, the maximum - 100 points.

The test taker receives 1 (one) point for a correctly completed task, and 0 (zero) points for an incorrectly completed task. Evaluation of results after the test is carried out in accordance with Table 3.

The test is considered to be completed when 61 points and higher are obtained. If the score is less than 61 points, it is necessary to retake the test.

Таблица 3. Перевод результата итогового тестирования в рейтинговый балл по 100-балльной системе

Number of errors made in answering 100 test tasks	% completion tasks tests	Rating score according to 100-point system
0 - 9	91-100	91-100
10 - 19	81-90	81-90
20 - 29	71-80	71-80
30 - 39	61-70	61-70
≥ 40	0-60	0

3. Methodology for calculating the score of intermediate certification - exam (Rna):

Examination of students in the discipline is held in the form of testing, interview, including questions on all studied sections of the program, as well as assessing the level of formation of the practical component of the formed competencies. The minimum number of points that can be obtained in the

framework of interim certification is 61, the maximum - 100 points (see Table 4).

Table 4: 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,	C	90–81	MEDIUM	4

logical, written in literary language 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	E	65-61	EXTREMELY LOW	3 (3-)

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. 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)	+1,0
	local level	+2,0
	regional level	+3,0
	national level	+4,0
	international level	+5,0
	-Winner of the 1st place,	+4,0
	2nd place;	+3,0
	3rd place	+2,0
	commended	
	2) participation in the research and preparation of the report (no presentation)	+1,0
6.	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

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