Attestation procedure in the discipline '' Medical Biochemistry '' for students of the educational program specialist degree in the specialty of training 33.05.01 Pharmacy, direction (profile) Pharmacy, form of study full - time for the 2024-2025 academic year

The final rating for the discipline (Rd) is calculated using the following formula:

Rd = (Rdav + Rexam) / 2

where Rd is the rating for the discipline

Rexam - intermediate certification rating (exam)

Rdav– average rating of the discipline for 2 semesters (third and fourth) of study –individual assessment of the assimilation of the discipline in points for 2 semesters of study

The average rating of the discipline for 2 semesters of study is calculated according to the following formula:

Rdav = (Rcem pr3 + Rpr4) / 2

where:

Rpr 3 is the rating for the discipline in the 3rd semester preliminary

Rpr 4 - the rating for the discipline in the 4th semester is preliminary

The rating for the discipline in the 3rd, 4th semesters is preliminary calculated according to the following formula: Rpr = (Rcarrent + Riw) / 2 + Rb - Rpenalty

where:

Rearrent is the current rating for the third or fourth semester (current academic performance, which is assessed according to the average score, taking into account tests and control papers).

Riw is a rating of the student's independent work.

Rb – bonus rating

Rpenalty – penalty rating

New types of rating were not introduced in the final semester of the discipline (spec. theory and spec.pract).

The maximum number of points that a student can receive in a discipline in a semester is 100. The minimum number of points at which the discipline should be credited is 61.

1. The method of calculating the average score of current academic performance:

The rating score for the discipline (Rcurrent) is evaluated in total, taking into account the current academic performance, the assessment of which is carried out according to the average score, taking into account the assessment for independent work.

The student's knowledge and work in practical classes are evaluated by the teacher in each semester, according to the classical 5-point system.

Independent work of students includes independent study of individual topics provided for in the work program. The students' reporting form is answers to questions and tests in lectures on the topics of independent work. Each topic of independent work is rated from 3 to 5 points, work rated below 3 points is not counted and requires completion by the student (Table 1). At the end of each semester, a centralized calculation of the student's average academic performance is performed, in the semester with its transfer to the 100-point system (Table 2). Table 1. Calculation points for independent work of students

Evaluation criteria	Rating
	score
The work has not been completed, it has not been completed in full, the work	0-2
does not correspond to the subject of independent work.	
The work was submitted in full, but it made more than 2 rough thematic	3
mistakes or missed more than 1 key question of the topic of independent work.	
The work has been submitted in full, but 1-2 rough thematic errors have been	4
made in it or 1 key question of the topic of independent work has been missed.	
The work has been completed in full, there are no rough thematic errors in it,	5
the key issues of the topic of independent work have not been missed.	

Table 2. Conversion of the average score of the current academic performance, including the student's independent work into a rating score according to a 100-point system

Average	Score on						
score on	a 100-						
a 5-point	point						
system	system	system	system	system	system	system	system
5,00	100	3,45	70	2,48	40	2,09	10
4,95	99	3,40	69	2,46	39	2,08	9
4,90	98	3,35	68	2,44	38	2,07	8
4,85	97	3,30	67	2,42	37	2,06	7
4,80	96	3,25	66	2,40	36	2,05	6
4,75	95	3,20	65	2,38	35	2,04	5
4,70	94	3,15	64	2,36	34	2,03	4
4,65	93	3,10	63	2,34	33	2,02	3
4,60	92	3,05	62	2,32	32	2,01	2
4,5	91	3,00	61	2,30	31	2,00	1
4,47	90	2,98	60	2,29	30		
4,43	89	2,95	59	2,28	29		
4,40	88	2,93	58	2,27	28	1	
4,37	87	2,90	57	2,26	27		

4,33	86	2,88	56	2,25	26
4,30	85	2,85	55	2,24	25
4,27	84	2,83	54	2,23	24
4,23	83	2,80	53	2,22	23
4,20	82	2,78	52	2,21	22
4,17	81	2,75	51	2,20	21
4,13	80	2,73	50	2,19	20
4,10	79	2,70	49	2,18	19
4,07	78	2,68	48	2,17	18
4,03	77	2,65	47	2,16	17
4,00	76	2,63	46	2,15	16
3,90	75	2,60	45	2,14	15
3,80	74	2,58	44	2,13	14
3,70	73	2,55	43	2,12	13
3,60	72	2,53	42	2,11	12
3,50	71	2,50	41	2,10	11

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

- Testing is evaluated according to the system: for each correctly completed task, the test taker receives 1 (one) point, for incorrectly completed -0 (zero) points. The minimum number of points that can be obtained during testing is 61, the maximum is 100 points (Table 2).

The test is considered completed when receiving 61 points or higher. If you get less than 61 points, you need to retake the test.

The number of mistakes	% of the completion of	Rating score according to
made when answering 100	the test task	the 100-point system
test tasks		
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

Table 3. Translation of the test result into a rating score according to a 100-point system

3. The method of calculating the intermediate certification score (exam) (Rexam)

Intermediate certification in the discipline is carried out in the form of an exam. The exam takes place in the form of an interview with an assessment of the formation of the practical component of the competencies being formed, which includes questions on all the studied sections of the program. The minimum number of points (Rexam) that can be obtained during an interview is 61, the maximum is 100 points (Table 4).

Response Characteristics	ECTS	Points	The level of	Rating
*	assessment	in	professional	on a
		BRS	competence	5-
			in the	point
			discipline is	scale
			formed	
A complete, detailed answer to the question is	А	100-	high	5
given, the totality of conscious knowledge about		96		(5+)
the object is shown, manifested in the free		10		
operation of concepts, the ability to distinguish				
its essential and non-essential signs, cause-and-				
effect relationships. Knowledge about the object				
is demonstrated against the background of				
understanding it in the system of this science and				
interdisciplinary connections. The answer is				
formulated in terms of science, presented in				
literary language, logical, evidential, demonstrates				
the author's position of the student. The student				
demonstrates a high advanced level of competence				
formation				
	В	95–91	high	5
A complete, detailed answer to the question is	D	95-91	mgn	5
given, the totality of conscious knowledge about the chiest is shown the main movisions of the				
the object is shown, the main provisions of the				
topic are evidently disclosed; a clear structure,				
logical sequence is traced in the answer, reflecting				
the essence of the disclosed concepts, theories,				
phenomena. Knowledge about the object is				
demonstrated against the background of				
understanding it in the system of this science and				
interdisciplinary connections. The answer is				
presented in literary language in terms of science.				
There may be shortcomings in the definition of				
concepts, corrected by the student himself in the				
process of answering. The student demonstrates a				
high level of competence formation.	q	00.01		4
A full, detailed answer to the question is given, the	С	90–81	average	4
ability to identify essential and non-essential				
features is shown,				
causal relationships. The answer is clearly				
structured, logical, presented in literary language				
in terms of science. There may be shortcomings or				
minor errors corrected by the student with the help				
of a teacher. The student demonstrates an average				

## Table 4. Criteria for assessing the level of assimilation of discipline material and the formation of competencies.

increased level of competence formation.				
A full, detailed answer to the question is given, the	D	80-76	average	4 (4-)
ability to identify essential and non-essential	2		u , cruge	
signs, cause-and-effect relationships is shown. The				
answer is clearly structured, logical, stated in				
terms of science. However, minor mistakes or				
shortcomings were made, corrected by the student				
with the help of "leading" questions from the				
teacher. The student demonstrates an average				
sufficient level of competence formation.				
	E	75-71	low	2(21)
A complete, but insufficiently consistent answer to	E	/5-/1	low	3 (3+)
the question is given, but at the same time the				
ability to identify essential and non-essential signs				
and cause-and-effect relationships is shown. The				
answer is logical and stated in terms of science.				
There may be 1-2 mistakes in the definition of				
basic concepts that the student finds it difficult to				
correct on their own. The student demonstrates a				
low level of competence formation.				
An insufficiently complete and insufficiently	E	70-66	low	3
detailed answer is given. The logic and sequence				
of the presentation have violations.				
Mistakes were made in the disclosure of concepts,				
the use of terms. The student is not able to				
independently identify essential and non-essential				
signs and cause-and-effect relationships. A student				
can concretize generalized knowledge by proving				
their main points by examples only with the help				
of a teacher. Speech design requires corrections,				
corrections.				
The student demonstrates an extremely low level				
of competence formation.				
An incomplete answer is given, the logic and	Е	65-61	threshold	3 (3-)
sequence of presentation have significant				
violations. Gross mistakes were made in				
determining the essence of the disclosed concepts,				
theories, phenomena, due to students'				
misunderstanding of their essential and non-				
essential features and connections. There are no				
conclusions in the response. The ability to reveal				
specific manifestations of generalized knowledge				
is not shown. Speech design requires corrections,				
corrections.				
The student demonstrates the threshold level of				
competence formation.				

An incomplete answer is given, which represents	Fx	60-41	There is no	2
scattered knowledge on the topic of the question			competence.	
with significant errors in definitions. There is				
fragmentary, illogical 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-based presentation.				
The speech is illiterate. Additional and clarifying				
questions from 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.				
There is no competence.				
No answers were received on the basic questions	F	40-0	There is no	2
of the discipline. The student does not demonstrate			competence.	
indicators of achieving the formation of				
competencies. There is no competence.				

4. Bonus and penalty system

This rating score calculation model provides bonuses that increase the rating score and penalties that lower the rating, according to the table below (Table 5).

Bonuses	title	Points
ERWS	Educational and research work on the topics of	up to + 5,0
	the studied subject	
SRWS	Certificate of the participant of the Student	+ 5.0
	scientific society department of the 1st degree	
	Certificate of the participant of the Student	+ 4.0
	scientific society of the department of the 2nd	
	degree	
	Certificate of the participant of the Student	+ 3.0
	scientific society of the department of the 3rd	
	degree	
	Certificate of the participant of the Student	+ 2.0
	scientific society of the department of the 4th	
	degree	
	Certificate of the participant of the Student	+ 1.0
	scientific society of the department of the 5th	
	degree	
Penalties	title	Points
Disciplinary	omission of lectures or practical classes without	- 2.0
	a valid reason	
	Systematic lateness to lectures or practical	- 1.0
	classes	
	Performing independent work not on time	- 1.0

## Table 5. Bonuses and penalties for discipline

	Violation of TV	- 2.0
Causing material	Damage to equipment and property	- 2.0
damage		

The final grade that the teacher puts in the record book is the final rating for the discipline (Rd), translated into a 5-point system (Table 6).

Table 6. Final	assessment of the discipline
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assessment by the 100- point system	assessment by the "5-point" system		assessment by ECTS
96-100	5	excellent	А
91-95	5	excellent	В
81-90	4	good	С
76-80	4	good with defects	D
61-75	3	satisfactory	Е
41-60	2	unsatisfactory	Fx
0-40	2	unsatisfactory	F
		(re-examination required)	

Considered at the meeting of the Department of Fundamental and Clinical Biochemistry on 17 June 2024, protocol №11.

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Head of the Department

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