Attestation procedure in the discipline "Biochemistry" for students of the educational program specialist degree in the specialty of training 31.05.01 General medicine, direction (profile) General medicine, form of study full - time for the 2023-2024 academic year

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

Rd = (Rdsr + Rpa) / 2

where Rd is the rating for the discipline

Rpa – intermediate certification rating (exam)

Rdsr – average discipline rating for the second and third semesters – individual assessment of the assimilation of the discipline in points for two semesters of study.

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

following formula:

Rdsr = (Rpred2 + Rpred3)/2

where:

Rpred2 is the rating for the discipline in the 2nd semester preliminary

Rpred3 – the rating of the discipline in the 3rd semester is preliminary

The rating for the discipline in the 2nd and 3rd semesters is preliminary calculated according to the following formula:

Rpred = (Rtec current + Rtest) / 2 + Rb - Rsh penalty

where:

Rtec is the current rating for the second or third semester (current academic performance, which is assessed according to the average score, taking into account the assessment for independent work).

Rtest is the rating for testing in the second or third semester.

Rb – bonus rating

Rsh – penalty rating

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 (Rtec) 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 by the work program. The reporting form of students is filling out tables according to the sample, preparing a report. Each topic of independent work is evaluated 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 a 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. Transfer of the average score of the student's current academic performance to a rating score according to a 100-point system

Average	Score on a	Average	Score on a	Average	Score on a
score on a 5-	100-point	score on a 5-	100-point	score on a 5-	100-point
point system	system	point system	system	point system	system
point system	system	point system	system	point system	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. The methodology of scoring points for testing in the semester

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

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

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

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

The number of mistakes	% of the completion of the	Rating score according to
made when answering 100	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
\geq 40	0-60	0

3. Methodology for calculating the intermediate certification score (exam) (Rpa) 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 (Rpa) that can be obtained during an interview is 61, the maximum is 100 points (Table 4).

formation of competencies						
Response characteristics	ECTS	Scores	Level of	Assessment		
	assess	in BRS	competence	on a 5-point		
	ment		formation	scale		
			in the			
			discipline			
A complete, detailed answer to the	А	100–96	high	5		
question is given, a set of conscious			e	(5+)		
knowledge about the object is shown,						
manifested in the free operation of						
concepts, the ability to distinguish its						
essential and non-essential signs, cause-						
and-effect relationships. Knowledge						
about the object						
it 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						
A complete, detailed answer to the	В	95-91	high	5		
question is given, the totality of	D)5)1	mgn	5		
conscious knowledge about 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.						
A full, detailed answer to the question is	С	90-81	average	4		
given, the ability to identify essential and		70-01	average	+		
non-essential signs, cause-and-effect						
relationships is shown. 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 the teacher. The student						

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

damonstrates on exempts in successful lavel				
demonstrates an average increased level				
of competence formation.	D	00.76		4 (4)
A full, detailed answer to the question is	D	80-76	average	4 (4-)
given, the ability to identify essential and				
non-essential 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.				
A complete but insufficiently consistent	E	75-71	low	3 (3+)
answer to 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, which the				
student finds it difficult to correct				
independently. The student demonstrates				
a low level of competence formation.				
An insufficiently complete and	E	70-66	low	3
insufficiently 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	E	65-61	threshold	3 (3-)
and 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.				
contections, confections.				

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The student demonstrates the threshold				
level of competence formation.				
An incomplete answer is given, which	Fx	60-41	competence	2
represents scattered knowledge on the			missing	
topic of the question with significant			_	
errors in definitions. There is				
fragmentary, illogical presentation. The				
student is not aware of 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	F	40-0	competence	2
questions of the discipline. The student	1	40.0	missing	2
does not demonstrate indicators of			missing	
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). Table 5. Bonuses and penalties for discipline

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

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

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. The final grade for the discipline

Assessment according	Assessment according to the 5-point		Assessment			
to the system "credited	system		according to			
- not credited"			ECTS			
counted	5 excellent		А			
counted			В			
counted	4 good		С			
counted			D			
counted	3	satisfactory	E			
not credited	2 unsatisfactory		Fx			
not credited			F			
	Assessment according to the system "credited - not credited" counted counted counted counted counted not credited	Assessment according to the system "creditedAssessment accounted- not credited"5counted5counted4counted3not credited2	Assessment according to the system "creditedAssessment according to the 5-point system- not credited"-counted5counted4counted4counted3counted3not credited2unsatisfactory			

Considered at the meeting of the department of Theoretical biochemistry with a course of clinical biochemistry "10" May 2023, protocol N_{2} 16

Head of the Department

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