

## Criteria and procedure for evaluating learning outcomes

Criteria and evaluation procedure in accordance with the regulation of the National Institute of Applied Sciences POL A2.2-25-031-B dated August 29, 2022 "Regulations on the procedure for evaluating the results of higher education students at the National Institute of Higher Education."

The knowledge of higher education applicants is assessed both from theoretical and practical training according to the following criteria:

Total points	Estimation of ECTS	Evaluation on a national scale	
		rating	test
90-100	A	Excellent	
82-89	B	Good	
74-81	C		passed
64-73	D	Satisfactorily	
60-63	E		
35-59	FX	Unsatisfactorily	not passed
1-34	F		

"excellent" - the student of higher education firmly mastered the theoretical material, deeply i comprehensively knows the content of the educational component, the main provisions of scientific primary sources and recommended literature, thinks logically and constructs an answer, freely uses the acquired theoretical knowledge in the analysis of practical material, expresses his attitude towards certain problems, demonstrates a high level of assimilation of practical skills;

"good" - the student of higher education has mastered the theoretical material well, has the main aspects from primary sources and recommended literature, explains it in a reasoned way; demonstrates practical skills, expresses his thoughts on certain problems, but when explaining some issues, there is not enough depth and argumentation, some insignificant inaccuracies and minor mistakes are allowed. The acquirer is able to distinguish the essential features of the studied subject by means of operations of synthesis and analysis, to identify cause-and-effect relationships in which there may be some insignificant errors, to form conclusions and generalizations;

"satisfactory" - the student of higher education has generally mastered the theoretical knowledge of the educational component, orients himself in primary sources and recommended literature, but without a deep comprehensive analysis, justification and argumentation, makes significant inaccuracies and mistakes, the student has problems when identifying the essential features of the subject, under the time of identifying cause-and-effect relationships and forming conclusions;

"unsatisfactory" - the student of higher education has not mastered the educational material of the educational component, does not know scientific facts, definitions, does not sufficiently orient himself in primary sources and recommended literature, practical skills are almost not formed, the student has an unsystematic allocation of random features of the studied, does not know how to perform the simplest operations analysis and synthesis, generalization and conclusions.

Current testing and individual work					
<b>MODULE 1. Organization of industrial drug production. Production of extractives and parenteral medicinal forms</b>					
Topic	T1	T2	TM1	T3	TM2
Intramural Program	3 – 5	18 – 30	9 – 15	21 – 35	9 – 15
	60 – 100				

Current testing and individual work							
<b>MODULE 2. Solids and semisolids, suppositories, aerosols, new technologies in drug production</b>							
Topic	T4	TM3	T5	T6	T7	T8	TM4
Intramural Program	21 – 35	9 – 15	5 – 7	4 – 7	4 – 7	8 - 14	9 - 15
	60 – 100						

### Criteria for evaluating knowledge from the exam

Each exam ticket consists of a theoretical part in the form of 30 tests, a theoretical question and a practical part - a calculation or situational problem. When evaluating the completed tasks of the ticket, the completeness of each part of the ticket is taken into account.

Assessment of test questions (each test 0-2 points, ):

2 points are awarded if one or all of the correct answers to the test questions are selected.

0.25-1.75 points are awarded if not all correct answers to the test questions are chosen.

0 points are awarded if the answer to the test question is incorrect or not selected at all.

The maximum number of points for test tasks is 60 points.

Evaluation of the answer to a theoretical question (0-20 points)

17-20 points are awarded to students of higher education who fully and thoroughly explained the theoretical question, using not only mandatory, but also additional literature.

13-16 are obtained by students of higher education who have generally solved the theoretical question, but not completely and with some inaccuracies. At the same time, he did not use the required literature at a sufficient level.

10-12 points are awarded to students of higher education who correctly identified the essence of the question, but did not reveal it completely, making some minor mistakes.

7-9 points are awarded to students of higher education who correctly defined the essence of the question, revealing it only partially and at the same time making individual mistakes that do not affect the general understanding of the question.

4-6 points are awarded to students of higher education who correctly defined the essence of the question, having insufficiently or superficially revealed most of its separate provisions and at the same time made individual mistakes that partially affected the general understanding of the problem.

0-3 points are awarded to those who have partially and superficially revealed only certain provisions of the question and made certain significant mistakes that significantly affected the general understanding of the question.

Evaluation of the calculation problem (0-20 points):

19-20 points are awarded if the applicant correctly calculates the task, contains the necessary explanations or formulas and fully corresponds to the reference solution.

10-18 points are awarded if the winner calculated the task correctly, but in a different way than in the standard and without explanation, or the course of the decision was chosen correctly, there are explanations or formulas, but a mathematical error was made in the calculations.

1-9 points are awarded if the winner of the partial score has calculated the problem, has no explanations or formulas used, or has incorrectly chosen the course of the decision, or has no final answer.

0 points are awarded if the applicant incorrectly calculated the task or did not provide a solution at all.

When determining the final grade for the exam, the points obtained for all parts of the exam ticket are added up. The minimum number of points that the applicant must score is 60 points, the maximum is 100 points. In case of receiving a grade of less than 60 points, the exam is considered failed.

Evaluation of the results of the final training is carried out according to the one-point scale and is defined according to the ECTS system and according to the traditional scale adopted in Ukraine, taking into account evaluations from all types of educational activities of the applicant. The knowledge of higher education applicants is assessed both from theoretical and practical training according to the following criteria:

Total points	Estimation of ECTS	Assessment by national scale
90-100	A	Excellent
82-89	B	Good
74-81	C	Satisfactorily
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