

**The procedure for certification
in the discipline "General pharmaceutical chemistry"
for students enrolled in 2023, 2022
according to the educational program
33.05.01 Pharmacy,
profile Pharmacy
(specialty),
form of study full-time
for the 2024-2025 academic year**

The procedure for conducting certification in the discipline "General Pharmaceutical Chemistry" was developed on the basis of the "Regulations on the forms, frequency, procedure for conducting ongoing monitoring of academic performance and intermediate certification, as well as on the point-rating system for evaluating the academic performance of students of the Federal State Budgetary Educational Institution of Higher Education of the Ministry of Health of the Russian Federation" (order of entry into force No. 1034-KO dated June 19, 2024), developed in order to ensure a unified approach to the certification of students and regulating the procedure for organizing and conducting current control, intermediate certification in disciplines and practices, the state final certification of educational programs mastered by students – bachelor's degree programs, specialty programs, master's degree programs; the procedure for eliminating current debt and academic debt; principles and criteria of the point-rating system for evaluating the academic performance of students at the Federal State Budgetary Educational Institution of Higher Education of the Ministry of Health of the Russian Federation.

The regulation on the forms, frequency, procedure for conducting ongoing monitoring of academic performance and intermediate certification, as well as on the point-rating system for evaluating student performance applies to students from all faculties of the Federal State Budgetary Educational Institution of the Russian Ministry of Health, including the Faculty of Pharmacy, studying the disciplines of the basic part "General Pharmaceutical Chemistry".

The BRS is a system for quantifying the level of development of an educational program and personal educational achievements of students.

The main objectives of the BRS include:

- stimulating the daily systematic educational activities of students in the formation and development of competencies provided for in the educational program;
- obtaining versatile and differentiated information about the quality and effectiveness of training based on the streamlining of the knowledge, skills and experience control system as indicators of achieving the formation of competencies;
- determining the real place that the student occupies among his fellow students in accordance with his success;

- formation of objective information about personal educational achievements of students for their encouragement;
- reducing the role of accidents during the passage of intermediate and / or state final certification.

The maximum number of points that a student can receive in the discipline "General Pharmaceutical Chemistry" per semester is 100, the minimum number of points at which the semester program in the discipline can be considered completed and the student can be admitted to the test or exam is 61.

At the Department of Pharmaceutical and Toxicological Chemistry, Pharmacognosy and Botany, the discipline "General Pharmaceutical Chemistry". it is studied in the IV–VI semesters, the VI semester ends with an exam.

The discipline exam is conducted during the summer examination session and is an interview on theoretical issues to assess the level of competence and work functions as a result of mastering the discipline. The exam is conducted on examination tickets drawn up on the basis of the work program of the discipline. The exam questions cover all sections of the discipline. All tickets are equivalent in volume and level of difficulty. Examination tickets are approved at a meeting of the Department and the Council of the Faculty of Pharmacy.

Current control

1. Current monitoring of students' academic performance is carried out in order to assess the degree of mastering by students of the educational material of the discipline "General Pharmaceutical Chemistry" during its implementation, as well as timely identification of underachieving students in order to provide them with educational and methodological assistance from the teaching staff of the department within the framework of group and individual consultations, including testing.

2. The current monitoring of students' academic performance is carried out within the amount of time allocated by the curriculum of the educational program for the development of this discipline.

3. The current monitoring of students' academic performance is carried out within the framework of the contract work of students with a teacher.

4. The current control of the discipline "General pharmaceutical Chemistry" is carried out by the teacher using evaluation tools and in the forms provided by the fund of evaluation tools of this discipline.

5. During the ongoing monitoring of students' academic performance, the teacher evaluates the results in accordance with the requirements of the BRS.

6. The results of students passing the necessary forms of current control are recorded by the teacher in the journal of current academic performance and attendance of students, which forms a picture of the development of the material of the discipline "General Pharmaceutical Chemistry" by each student.

7. In case of non-completion or unsatisfactory results of part of the measures of the current academic performance control, the student may have a current debt, which consists of the presence of unsatisfactory marks obtained in

classes on the control of knowledge, skills, skills provided for by the work program of the discipline, and / or the presence of class absences (lecture type, seminar type) in the discipline, the educational program being mastered, and/or the presence of unsatisfactory marks for IWS or unreleased IWS, and/or the rating values for the discipline in the semester at the end of the semester are less than 61 points.

8. The procedure for liquidation of current debt:

8.1. the liquidation of current debts is carried out within the amount of time allocated to the teaching staff of the department for group and individual consultations, including working out, in accordance with the cathedral technology and the cathedral schedule of their admission;

8.2. the current debt must be liquidated, as a rule, before the end of the semester;

8.3. after the end date of the semester, the liquidation of the current debt on the discipline is possible before the deadline for the 2nd retake of the intermediate certification in the semester in which the study of the discipline ends and in which the intermediate certification is carried out on it;

8.4. a student who, for a disrespectful reason, has not eliminated the current debt in a discipline for which intermediate certification is provided in this semester, before the set date of the 2nd retake of the intermediate certification, is not allowed to take intermediate certification in this discipline and is expelled from the Federal State Budgetary Educational Institution of the Volga State Medical University of the Ministry of Health of the Russian Federation as having failed to fulfill obligations for the conscientious development of the educational program and the implementation of the curriculum;

8.5. the liquidation of current debts by students after the end date of the semester is carried out in accordance with an individual schedule for the liquidation of current debts, which is drawn up by the head of the educational program or a person authorized by him together with the department assigned to implement this discipline, for which the current debt arose.

Intermediate certification

1. The intermediate certification of students is carried out in order to assess the level of formation of students' competencies at the end of mastering the discipline as indicators of the quality of educational programs.

2. Students who do not have current debts in this discipline can be admitted to the intermediate certification in the discipline "General Pharmaceutical Chemistry", while admission is not affected by the presence of debts (current or academic debts) in other disciplines/practices.

3. It is not allowed to charge students for passing the intermediate certification.

4. Intermediate certification of students is carried out within the amount of time allocated by the curriculum of the educational program for intermediate certification in the discipline "General Pharmaceutical Chemistry", within the time limits established by the calendar curriculum of the educational program.

5. Intermediate certification of students is carried out within the framework of the contract work of students with a teacher.

6. Intermediate certification of students in the discipline "General pharmaceutical Chemistry" is carried out in the forms provided for in the curriculum of the educational program (exam), using evaluation funds from the fund of evaluation funds of this discipline.

7. During the intermediate certification of students, the teacher evaluates the results in accordance with the scales and criteria of the sections of the BRS.

8. The results of the intermediate certification are taken into account the results of training, which are credited in the order of transfer or recertification, mastered by students in other organizations or according to other educational programs of the Federal State Budgetary Educational Institution of the Volga State Medical University of the Ministry of Health of the Russian Federation.

9. Failure to pass the intermediate certification without the formation of academic debt occurs if the student did not appear for the intermediate certification for a valid reason (temporary disability, performance of public or state duties, summons to court, transport problems (flight cancellation, lack of tickets), weather conditions, etc.). In this case, the student must submit to the Dean's Office of the Faculty of Pharmacy upon receipt a document confirming a valid reason for absence, and has the right to undergo intermediate certification within the established time limits for retakes within the framework of this test and examination session.

10. Failure to pass the intermediate certification with the formation of academic debt occurs:

10.1. upon receiving an "unsatisfactory" grade at the intermediate certification;

10.2. in case of failure to attend the intermediate certification without a valid reason, the final grade in the discipline "unsatisfactory" is given;

10.3. in case of non-admission of the student to the intermediate certification in accordance with paragraphs 8.4. and paragraph 2. of this Procedure, the final grade for the discipline is "unsatisfactory".

11. The procedure for liquidation of academic debt:

11.1. A student who has an academic debt has the right to undergo an intermediate certification in the discipline "General Pharmaceutical Chemistry" (hereinafter referred to as retake) no more than twice within the time limits determined by the administrative act of the Federal State Budgetary Educational Institution of the Ministry of Health of the Russian Federation (hereinafter referred to as retake dates). The specified period does not include the time of the student's illness, his stay on academic leave or maternity leave.

11.2. The resolution of the Dean's Office of the Faculty of Pharmacy is required to eliminate academic debt.

11.3. To conduct intermediate certification in the second term of retakes at the host department of Pharmaceutical and Toxicological Chemistry, Pharmacognosy and Botany, a commission is created, the composition of which is approved by the head of the department after discussing the issue at a meeting

of the department. To retake the exam, the commission is formed from at least 3 persons from among the examiners of the department with established requirements for the position, academic title, academic degree.

11.4. On one day, the student has the right to eliminate academic debt in several disciplines/practices. At the same time, the student is solely responsible for the consequences of making a decision to transfer several tests/ assessment tests /exams in one day.

11.5. A student who has not eliminated academic debt in due time is expelled from the Federal State Budgetary Educational Institution of the Volga State Medical University of the Ministry of Health of the Russian Federation as having failed to fulfill obligations for the conscientious development of the educational program and the implementation of the curriculum.

The procedure for conducting certification in the discipline

1. General principles of calculation of the components of the rating by discipline (Rd):

$$Rd = (Rpred + Rcourse + Rspets_theor + Rspets_pn + Rpa) / n,$$

where Rpred, Rpa are the required components,
Rcourse, Rspets_theor, Rspets_pn – optional components;
n is the number of rating components in the formula.

At the same time:

$$Rpred = (Rsem_1 + \dots + (Rsem_n)) / n,$$
$$Rsem = (Rtec + Riws) / 2 + Rb - Rsh$$

where n is the number of semesters of study of the discipline.

The rating of the discipline in the discipline "General Pharmaceutical Chemistry" (Rd), mastered by students during three (IV-VI) semesters:

$$Rd = (Rpred + Rpa) / 2,$$

where Rpred, Rpa are the required components,
n (2) is the number of rating components in the formula.

Rpred is the preliminary rating for the discipline for all semesters of study;
Rpa is the rating of the intermediate certification in the discipline (exam).

At the same time:

$$Rpred = (Rsem1 + \dots + Rsem3) / 3,$$

$$Rsem = (Rtec + Riws) / 2 + Rb - Rsh,$$

where n (3) is the number of semesters of study of the discipline;
Rtec – current rating for the discipline;
Riws – rating of the student's independent work within the discipline;

Rsem – semester rating by discipline;
Rb – bonus rating;
Rsh – penalty rating/

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

Methodology of assessment and calculation of the current rating in the semester (Rtek)

The current rating in the semester is calculated as the arithmetic average of all the grades received by the student during the semester of studying the discipline "General Pharmaceutical Chemistry".

The students' performance of ongoing academic performance monitoring activities is evaluated by the teacher at each seminar-type lesson on a classic 5-point scale, where:

- 2 – unsatisfactory;
- 3 – satisfactory;
- 4 – good;
- 5 – excellent.

The criteria for the forms of current control are given in table 1 of the appendix to this Procedure.

Specific criteria, including for specific forms of routine control, are established in the fund of evaluation tools of the discipline "General Pharmaceutical Chemistry".

At the end of each semester of studying the discipline "General Pharmaceutical Chemistry", the calculation of Rtecs is performed with the transfer of the calculated value to a 100-point scale according to table 3 of the appendix to this Order.

The absence of current debt is considered to be an Rtek value of more than 61 points.

Methodology for evaluating and calculating the student's independent work rating in the semester (Riws)

The student's independent work rating (IWS) in the semester is calculated as the arithmetic mean of all the grades received by the student for completing the IWS.

IWS includes independent study of individual topics in the total amount of hours provided for in the curriculum.

IWS assessment is conducted on a classic 5-point scale, where:

- 2 – unsatisfactory;
- 3 – satisfactory;
- 4 – good;
- 5 – excellent.

The criteria for the generalized assessment of IWS are given in table 2 of the appendix to this Order.

Specific IWS assessment criteria for the discipline are established in the fund of evaluation tools of the discipline "General Pharmaceutical Chemistry".

At the end of each semester of studying the discipline "General Pharmaceutical Chemistry", the student's R_{IWS} is calculated with the transfer of its calculated value to a 100-point scale according to table 3 of the appendix to this Order.

The R_{IWS} value of more than 61 points is considered to be the absence of current debt.

Methodology for calculating the semester rating in the discipline (R_{sem})

The semester rating is calculated as the arithmetic average of the current rating and the rating of independent work, taking into account bonuses that increase the rating score and penalties that lower it.

The criteria for bonuses and penalties are given in table 4 of the appendix to this Procedure.

Specific criteria for bonuses and penalties for the discipline are established in the fund of evaluation funds of the discipline "General Pharmaceutical Chemistry", while the maximum and minimum values of bonuses and penalties should not exceed the values specified in table 4 of the appendix to this Procedure.

Bonuses and penalties are set according to a 100-point system.

The methodology for calculating the preliminary rating for the discipline (R_{pred})

The preliminary rating is calculated as the arithmetic average of the semester ratings for all semesters of study of the discipline.

The methodology for calculating the intermediate certification rating (R_{pa})

Intermediate certification in the discipline "General Pharmaceutical Chemistry" is carried out in the form prescribed by the curriculum (exam).

Evaluation tools and the procedure for conducting intermediate certification are established in the fund of evaluation tools of the discipline "General Pharmaceutical Chemistry".

The assessment of the student's level of formation of the necessary competencies is carried out according to the criteria of table 5 of the appendix to this Procedure.

Final assessment of the discipline (R_d), defined as the arithmetic mean of R_{dv} , R_{pa} , calculated in a 100-point system, is then transferred to a 5-point system (form of intermediate certification – exam) according to table 6 of the appendix of this Order.

Exam schedule
at the Department of Pharmaceutical and Toxicological Chemistry,
Pharmacognosy and Botany in the 2024-2025 academic year
(summer semester)

Date	Discipline	Group	Time	Study room	Teacher

Assessment criteria within the framework of the BRS of students

Table 1. Criteria for the forms of current control
in the discipline "General pharmaceutical Chemistry"

Type of task	Evaluation criteria
Tests	<ul style="list-style-type: none"> • The number of correct answers
Interview	<ul style="list-style-type: none"> • The correctness of the answer • Completeness of the response • Structure and logic of the response
Practical skills	<ul style="list-style-type: none"> • Knowledge of the theoretical foundations of the skill • Compliance with the technique of performing the skill • Confidence in performing the skill
Situational tasks, cases	<ul style="list-style-type: none"> • The accuracy of the response received • Correctness of the choice of the solution/task execution tool • Correctness of the sequence of actions for solving/completing the task
Control work	<ul style="list-style-type: none"> • The number of correctly completed tasks
Summaries, presentations	<ol style="list-style-type: none"> 1. Technical assessment: <ul style="list-style-type: none"> • Meeting deadlines for the completion of work • Compliance with registration requirements 2. Content assessment: <ul style="list-style-type: none"> • Content relevance to the topic • The fact of disclosure of the topic • Reflection of all necessary elements of the task in the work • Availability of structure and logic of work • Matching the style of the text to the type of work 3. Evaluation of the student's analytical work: <ul style="list-style-type: none"> • Adequacy of the choice of sources • Level of analysis (deep/superficial) • Analytical tools and presentation of conclusions (including the use of diagrams, examples, illustrations, graphs, etc.)
Reports, abstracts	<ol style="list-style-type: none"> 1. Technical assessment: <ul style="list-style-type: none"> • Compliance with the performance rules • Compliance with the requirements for performance elements 2. Assessment of the content: <ul style="list-style-type: none"> • Availability of the structure and logic of the report • The presence of links and transitions between parts of the report • Disclosure of the topic in the report 3. Evaluation of the group report: <ul style="list-style-type: none"> • Distribution of parts of the report among the speakers by time and content • Taking into account the individual characteristics of the speakers when distributing parts of the report among the speakers

	<p>4. Answers to questions based on the results of the report:</p> <ul style="list-style-type: none"> • Correctness of the argumentation of the answers <p>5. Additionally, other students pose questions to the speaker:</p> <ul style="list-style-type: none"> • The question is aimed at obtaining information that was not explicitly reflected in the report • The question is not aimed at identifying information known to students • The question shows that the student analyzes the speaker's information
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Table 2. Criteria for the generalized assessment of independent work of students in the discipline "General pharmaceutical Chemistry"

Type of task	Evaluation criteria
IWS in the form of an electronic course/ elements of a course on EIOP VolgSMU	<ul style="list-style-type: none"> • Meeting deadlines for work • Completeness of the study of the material • Completion of the provided tasks
IWS in the form of an essay, synopsis, presentation	<p>1. Technical assessment:</p> <ul style="list-style-type: none"> • Meeting deadlines for the completion of work • Compliance with registration requirements <p>2. Content assessment:</p> <ul style="list-style-type: none"> • Content relevance to the topic • The fact of disclosure of the topic • Reflection of all necessary elements of the task in the work • Availability of structure and logic of work • Matching the style of the text to the type of work <p>3. Evaluation of the student's analytical work:</p> <ul style="list-style-type: none"> • Adequacy of the choice of sources • Level of analysis (deep/superficial) • Analytical tools and presentation of conclusions (including the use of diagrams, examples, illustrations, graphs, etc.)
IWS in the form of a report, an abstract	<p>1. Technical assessment:</p> <ul style="list-style-type: none"> • Compliance with the performance rules • Compliance with the requirements for performance elements <p>2. Assessment of the content:</p> <ul style="list-style-type: none"> • Availability of the structure and logic of the report • The presence of links and transitions between parts of the report • Disclosure of the topic in the report <p>3. Evaluation of the group report:</p> <ul style="list-style-type: none"> • Distribution of parts of the report among the speakers by time and content • Taking into account the individual characteristics of the speakers when distributing parts of the report among the speakers <p>4. Answers to questions based on the results of the report:</p> <ul style="list-style-type: none"> • Correctness of the argumentation of the answers

	<p>5. Additionally, other students pose questions to the speaker:</p> <ul style="list-style-type: none">• The question is aimed at obtaining information that was not explicitly reflected in the report• The question is not aimed at identifying information known to students• The question shows that the student analyzes the speaker's information
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Table 3. Conversion of the average score of the student's current academic performance into a rating score according to a 100-point system

The average score according to the 5-point system	Score according to the 100-point system	The average score according to the 5-point system	Score according to the 100-point system	The average score according to the 5-point system	Score according to the 100-point system	The average score according to the 5-point system	Score according to the 100-point 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		
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		

Table 4. Bonuses and penalties for discipline

Bonuses	Name	Scores
educational research work	Educational and research work on the topics of the studied subject	up to + 5,0
scientific research work	Certificate, diploma, diploma, etc. of the participant of the MNO department	up to + 5,0
Penalties	Name	Scores
Disciplinary	Skipping a lecture or a practical lesson 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 safety regulations	- 2,0
Causing material damage	Damage to equipment and property	- 2,0

Table 5. Criteria for assessing the level of assimilation of discipline material and the formation of competencies

Response Characteristics	Evaluation ECTS	Points in the BRS	The level of competence formation in the discipline
A complete, detailed answer to the question is given, 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 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, evidence-based, demonstrates the author's position of the student. The student demonstrates a high advanced level of competence formation. The intermediate certification has been completed.	A	100-96	HIGH
A complete, detailed answer to the question is given, a set of conscious knowledge about the object is shown, the main provisions of the topic are evidently disclosed; a clear structure, logical sequence reflecting the essence of the disclosed concepts, theories, phenomena is traced in the answer. 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 flaws in the definition of concepts, corrected by the student himself in the process of answering. The student demonstrates a high level of competence formation. The intermediate certification has been completed.	B	95-91	
A complete, detailed answer to the question is given, the ability to identify essential and non-essential signs, cause-and-effect relationships is shown. The answer is clearly structured, logical, and presented in literary language in terms of science. There may be flaws or minor errors corrected by the student with the help of a teacher. The student demonstrates an average increased level of competence formation. The intermediate certification has been completed.	C	90-81	AVERAGE

A complete, detailed answer to the question is given, the ability to identify essential and non-essential signs, cause-and-effect relationships is shown. The answer is clearly structured, logical, and stated in terms of science. However, minor errors or omissions 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. The intermediate certification has been completed.	D	80-76	
A complete but insufficiently consistent 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 on his own. The student demonstrates a low level of competence formation. The intermediate certification has been completed.	E	75-71	LOW
An insufficiently complete and insufficiently detailed answer has been given. The logic and sequence of the presentation have violations. Mistakes were made in the disclosure of concepts and the use of terms. The student is not able to independently identify significant 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 and corrections. The student demonstrates an extremely low level of competence formation. The intermediate certification has been completed.	E	70-66	
An incomplete answer is given, the logic and sequence of presentation have significant violations. Gross errors were made in determining the essence of the disclosed concepts, theories, and phenomena, due to the student's 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 and corrections. The student demonstrates the threshold level of competence formation. The intermediate certification has been completed.	E	65-61	THRESHOLD
An incomplete answer is given, representing scattered knowledge on the topic of the question with significant errors in definitions. There is a 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. Intermediate certification has not been completed.	Fx	60-41	COMPETENCY ABSENT
No answers have been received on the basic questions of the discipline. The student does not demonstrate indicators of achieving the formation of competencies. There is no competence. Intermediate certification has not been completed.	F	40-0	

Table 6. Final assessment of the discipline

The score is based on a 100-point system	Assessment according to the system "credited - not credited" (for credit)	Assessment according to the 5-point system (for a test with an assessment, an exam)		Assessment according to ECTS
100-96	Credited	5	Excellent	A
95-91				B
90-81		4	Good	C
80-76				D
75-71		3	Satisfactorily	E
70-66				
65-61				
60-41	Not credited	2	Unsatisfactorily	Fx
40-0				F

Reviewed at the meeting of the department of Pharmaceutical and Toxicological Chemistry, Pharmacognosy and Botany on «28» august, 2024, protocol № 1.

Head of the Department



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