THE MINISTRY OF HIGHER EDUCATION, SCIENCE AND INNOVATIONS OF THE REPUBLIC OF UZBEKISTAN
SAMARKAND STATE UNIVERSITY
NAMED AFTER SHAROF RASHIDOV

Registered: ING1104-0525
2026 year "28" august

"APPROVED"
Director of the Institute of Languages and Cultures of the People of Central Asia
prof. J.D. Eltazarov
2026 year "28" august

FOREIGN LANGUAGE (ENGLISH) SCIENCE PROGRAM

(Full time, Semester 1)

Field of knowledge:	500 000	Natural Sciences, Mathematics and Statistics
Field of education:	540 000	Mathematics and Statistics
Field of study:	60540100	Mathematics

Samarkand-2026

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This program was approved by the Academic Council of the Institute of Languages and Cultures of the Peoples of Central Asia, as recorded in No. 01 of its meeting held on 26 August 2026.

This program was submitted by the Department of English Language, Linguistics and Literature of the Institute of Languages and Cultures of the Peoples of Central Asia, Samarkand State University named after Sharov Rashidov (Minutes No. 1 of the department meeting held on 26 August 2026).

Compiled by:

N.A.Turakulova – assistant, department of English language, linguistics and literature, Institute of Languages and Cultures of the Peoples of Central Asia, Sharof Rashidov Samarkand State University.

Reviewers:

Sh.Sh.Xushmuradova - professor of the Department of "English Language, Linguistics and Literature", Institute of Languages and Cultures of the Peoples of Central Asia, Samarkand State University named after Sharof Rashidov (internal reviewer)

N.J. Sulaymanova – DSc, professor and head of the department of Theory of English, Samarkand state institute of foreign languages (external reviewer).

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1.	Course Information							
Subject/module code ING1104		**Academic year** 2026-2027	**Semester** 1				**ECTS – Credits** 4	
Subject/module type Mandatory		**Language of education** Uzbek/English	Serial Number in the Curriculum 60540100 –1104				**Class hours per week** 4	
Name of Discipline English language		**Total workload (hour)**	Total Contact Hours: 48 hours, including:				**Independent Education (hour)**	**Course work**
			Lecture	**Practical**	**Lab.**	**Sem.**		
		120		48			72	0

2. Course content

Course aim- the aim of the course is to consolidate and strengthen the fundamental knowledge and skills in English acquired during secondary education. The course facilitates students' adaptation to the specific requirements of foreign language learning in a non-philological higher education institution, enabling a smooth transition from secondary-school language instruction to university-level learning methodologies. It focuses on the development and improvement of communicative language skills, including reading, speaking, listening, and writing within academic and professional contexts. The course also aims to develop students' abilities in classroom and independent learning, foster autonomous language-learning skills, and encourage the effective use of English for academic purposes. In line with the principles of integrating education and research, the course promotes the incorporation of innovative teaching approaches and the extensive use of modern information and communication technologies in the learning process.

Course objectives- the objectives of the course are to develop students' English language skills, enable them to communicate with a reasonable degree of fluency in English, equip them with the ability to use English in relevant academic and professional fields, and foster independent thinking, analytical skills, as well as the ability to draw conclusions and make informed decisions.

3. Prerequisite knowledge required for course completion

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1	Completion of the English language curriculum covered in Grades 8–9 of secondary education.
2	Completion of the English language curriculum covered in Grades 10–11 of secondary education.
3	Students are expected to possess basic English language knowledge and skills in accordance with the Common European Framework of Reference for Languages (CEFR)

4. Learning Outcomes (LOs)	
Professional Competencies:	
LO1	Students will acquire basic knowledge of the fundamental rules of the English language and understand its importance in everyday and professional communication.
LO2	Students will understand simple and frequently used terminology related to maths and be able to use it in basic spoken and written communication.
LO3	Students will be able to understand and convey the general meaning of short texts, instructions, and technical descriptions related to the field of maths.
LO4	Students will develop the ability to communicate in English in simple professional situations, introduce themselves, and provide brief information about their profession and field of specialization.
Practical Skills:	
LO5	Students will be able to recognize and name key terms, equipment, devices, and instruments related to maths in English.
LO6	Students will be able to understand simple technical texts and interpret information presented in tables, diagrams, charts, and illustrations, as well as express brief opinions about them.
LO7	Students will be able to write short messages, emails, simple reports, and descriptions in English using appropriate models and templates
LO8	Students will be able to participate in simple conversations related to electronics and instrumentation, respond to questions, and apply basic English language skills required for their professional activities.

5. Practical Classes (P) Semester 1, Academic Year 2026–2027		Hours
		48
P1	**Unit 1. Nice to meet you!** **L-1. Hello!** G-Verb to be, Possessive adjectives, Verbs have/go/live/like, Possessive's	2

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	V-Personal information S-Introducing yourself L-Where is he from? [1]	
P2	**L-2. Mathematics as a science.** Students will learn about mathematics as a fundamental scientific discipline and its role in understanding the world. They will become familiar with the main branches and methods of mathematical research. By the end of the topic, students will understand the importance of mathematics in science, technology, and everyday life.[2,3]	2
P3	**L-3. A student's blog** V-Adjectives, opposite adjectives, the family R-Maria's blog W-A blog L-Everyday English [1]	2
P4	**L-4. Numeration Systems and Numbers.** Students will learn about different numeration systems and types of numbers. They will understand how numbers are written and used in mathematics. By the end of the topic, students will be able to work with numbers in different numeration systems. [2]	2
P5	**L-5. Unit 2 Work and family life.** G-Present Simple(1), Questions and negatives V-Jobs S-What time is it? R- Two different jobs[1]	2
P6	**L-6. Cardinal and ordinal numbers .** This topic introduces cardinal and ordinal numbers. Students will learn how cardinal numbers are used for counting and ordinal numbers for showing position or order. They will practice using these numbers in different examples. By the end of the topic, students will be able to distinguish between cardinal and ordinal numbers and use them correctly.[3]	2
P7	**L-7. What does he do?** **V**-jobs G- What time is it? R-Worlds apart S-Role play L- Jobs, conversation about jobs W-Improving style. Using pronouns. p105[1]	2

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P8	**L-8. Arithmetic.** Arithmetic is one of the basic branches of mathematics. Students will study the main operations with numbers, such as addition, subtraction, multiplication, and division. They will develop skills in solving simple numerical problems. The topic also helps students improve their calculation abilities in everyday situations. [2]	2
P9	**L-9. Unit 3 Time off.** G-Present Simple (2), Adverbs of frequency V- Leasure activities/ Social expressions L- Your work-life balance. [1]	2
P10	**L-10. Algebra.** Students will become familiar with the basic concepts of algebra. They will learn how to use symbols and letters to represent numbers and mathematical relationships. The topic introduces simple equations and expressions. By the end of the topic, students will be able to solve basic algebraic problems and apply algebraic thinking in mathematics. [2,3]	2
P11	**L-11. Busy weekends.** R-Busy weekends V-My perfect weekend W-Form filling. An application form. [1]	2
P12	**L-12. Geometry.** In this topic, students will explore basic geometric shapes and figures. They will learn about points, lines, angles, and other geometric concepts. Students will also study the properties of different shapes and their measurements. By the end of the topic, they will be able to recognize and describe common geometric figures.[2]	2
P13	**L-13. Unit 4. Hose and home** G-Some/ any/ a lot of; this/ that/ these/ those V-Things in the house. Things in the street. Rooms and household goods. S-Information gap. What's in your bag? L- Five conversations[1]	2
P14	**L-14. Trigonometry.** This topic focuses on the relationships between angles and sides of triangles. Students will learn the basic trigonometric functions and their uses. They will solve simple problems involving angles and measurements. The knowledge gained will help them understand more advanced mathematical concepts.[2,3]	2
P15	**L-15. The Houses of Parlament** R-Inside the Houses of Parlament	2

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	V-Adjectives for good and bad. Adverb + adjective. Numbers, prices. W-Describing your home. Linking words and, so, but, because . Writing a description of your home pl07. [1]	
P16	**l-16. Triangles and their types.** Students will learn what a triangle is and how it is formed. They will study different types of triangles such as equilateral, isosceles, and scalene. The topic explains how triangles are classified based on their sides and angles. By the end, students will be able to identify and describe different types of triangles.[3]	2
P17	**L-17. Unit 5 Super U?** G-can/can't. Adverbs. Was/were/could. Was born V- Words that go together.Noun + noun: bookshop, post ofice Verb + noun: play the guitar. Prepositions S-What can you do? Talking about you[1]	2
P18	**L-18. Linear Algebra.** Students will learn the basic concepts of linear algebra. They will study vectors, matrices, and simple linear equations. The topic explains how to represent and solve systems of linear equations. By the end, students will be able to apply basic linear algebra methods in solving mathematical problems.[3]	2
P19	**L-19. A talented family.** R- A talented family L- Conversations W- A formal email. Applying for a job.[1]	2
P20	**L-20. Mathematical Analysis.** Students will learn the basic ideas of limits and functions. They will understand how functions change and behave. The topic introduces simple concepts of continuity and change. By the end, students will be able to work with basic ideas of mathematical analysis and apply them in simple problems. [2]	2
P21	**Unit 6. Lessons in life** **L-21. My kind of place** G- Past Simple (l) Regular, Irregular. Time expressions V- Regular verbs, Irregular verbs. -ing adjectives. S- Talking about a student. L- The year I was born. [1]	2
P22	**L-22. Discrete mathematics.** This topic covers basic structures used in discrete mathematics such as sets, relations, and logic. Students will study how to work with finite and countable objects. It also introduces simple ideas of graphs and combinatorics. The course helps students	2

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	develop logical thinking and problem-solving skills in discrete systems. [3]	
P23	**L-23. The meaning of life** R-The meaning of life? V- Describing feelings. Describing things. What's the date? W- A biography. Combining sentences. [1]	2
P24	**L-24. Text on speciality.** **Shapes and measurements.** This topic helps students understand different shapes in mathematics. They will learn how to measure length, area, and volume. Students will explore how to compare and calculate the size of objects. The topic also builds practical skills for solving real-life measurement problems. [3]	2

6. Independent study assignments for semester 1, academic year 2026–2027.		Hours
		72
1	Creating a math crossword puzzle.(Guruh bo'lib matematik atamalar asosida krossvord yaratish).	6
2	Collecting and analyzing student data.(Talabalarning bo'yi, Yoshi yoki qiziqishlari bo'yicha ma'lumot yig'ib, diagramma va grafiklar tuzish).	6
3	Using numbers in everyday life.	6
4	Measurement units and unit conversions.	6
5	My hobby.	6
6	My future job.	6
7	The importance of mathematics in modern life.	6
8	Mathematical vocabulary in English.	6
9	Complex numbers.	6
10	Calculus.	6
11	Linear algebra.	6
12	My university.	6

7. Teaching Technologies and Methods
▶ Lectures and explanations;

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- Practical classes focusing on the development of listening, reading, writing, and speaking skills;
- Interactive teaching methods, including Brainstorming, Think–Pair–Share, Role Play, and Case Study;
- Quick quizzes and question-and-answer sessions;
- Group work activities;
- Student presentations;
- Teamwork and collaborative learning activities.
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8. Requirements for earning course credits

To earn the credits assigned to this course, students are required to:

- demonstrate a thorough understanding of the theoretical and methodological concepts of the course;
- accurately interpret and present the results of analyses and learning activities;
- independently reflect on and discuss the topics and processes studied during the course;
- successfully complete all assignments and tasks required in the current (continuous) assessment and midterm assessment;
- successfully complete and pass the final assessment.

Successful fulfillment of these requirements is necessary for the award of the course credits.

9. Student assessment criteria

A grade of 5 (Excellent) will be awarded if the student:

- demonstrates a comprehensive understanding of the nature and content of the course;
- presents course topics accurately, logically, and scientifically, without significant errors or misconceptions;
- has a clear understanding of the theoretical and practical significance of the course materials;
- demonstrates the ability to think independently and critically within the scope of the course;
- provides clear, concise, and accurate answers to questions;
- is well prepared and maintains complete course notes;
- completes all independent assignments accurately and on time;
- demonstrates mastery of all required practical skills and competencies;
- is able to apply theoretical knowledge in various situations;

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- follows a systematic and coherent approach to learning.

A grade of 4 (Good) will be awarded if the student:

- understands the nature and content of the course;
- presents course topics logically and with only minor inaccuracies;
- understands the practical significance of the course content;
- completes assigned tasks and activities within the scope of the syllabus;
- provides generally correct answers to course-related questions;
- demonstrates adequate preparation for course activities;
- completes all independent assignments;
- shows consistent effort in acquiring the required practical skills and competencies.

A grade of 3 (Satisfactory) will be awarded if the student:

- possesses a general understanding of the course;
- demonstrates limited knowledge of course topics and may make some inaccuracies in explanation;
- completes independent assignments;
- has difficulty expressing ideas clearly and fluently;
- provides vague, incomplete, or partially correct answers to course-related questions.

A grade of 2 (Unsatisfactory) may be awarded if the student:

- is not adequately prepared for classes;
- demonstrates little or no understanding of the course content;
- fails to complete independent assignments;
- makes serious errors and misconceptions in tests and other assessment tasks;
- is unable to answer course-related questions;
- fails to demonstrate the minimum required knowledge and skills in the subject.

10. References	
	Main References:
1	Liz & John Soars and Paul Hancock *Headway: Elementary fifth edition Student's Book*. Oxford |University Press 2019
2	English for Students of Mathematics: учебное пособие / Г.Р. Еремеева, Н.А. Сигачева, Ф.Б. Ситдикова. – Казань: КФУ, 2022. – 184 с.
3	Коваленко А.В , ENGLISH FOR STUDENTS OF MATHS,2015
	Additional References:

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4	Raymond Murphy English Grammar in Use: fifth edition. 2019
5	Sheldon Axler (3rd ed., 2015), "Linear Algebra Done Right".
	Online Resources
6	https://www.teachertrainingvideos
7	2.www.teachertrainingvideos
8	3.http://new.math.msu.su/department/probab/os-nf/index-nf-plus.html,
9	4.https://www.upenn.edu/

11.	**Comparative Analysis of the Science Program.**

The curriculum was developed based on a comparative analysis of the study programs of internationally recognized universities ranked by major global ranking organizations, including the **QS World University Rankings** and the **Academic Ranking of World Universities**.
The following program were reviewed:

1. Educational programs of one higher education institution from Russia, one from Sweden, and one from Austria were analysed: **Lomonosov Moscow State University** (QS – 92 / THE – 108 / ARWU – 115), **University of Gothenburg** (QS – 194 / THE – 236 / ARWU – 142), and a university in Austria (QS – 137 / THE – 111 / ARWU – 149).

2. Based on the results of the analysis, **10 topics of the course "English Language"** for the educational program **60540100 – Mathematics** were revised and updated.

Links to International University Programs.
1.http://new.math.msu.su/department/probab/os-nf/index-nf-plus.html
2.https://www.gu.se/en/study-gothenburg/applied-functional-analysis-mma400
3.https://www.upenn.edu

Head of the department: professor, S. Zanjani

Compiled by: assistant, N.A.Turakulova

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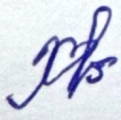
For the 2026–2027 academic year, for first-year bachelor's degree students of Samarkand State University named after Sharof Rashidov, the Science program for the subject "foreign language", prepared by the teachers of the department of English language, linguistics and literature

REVIEW

The English language course is designed to enable students to read and comprehend literary works from countries where the target language is spoken, understand the main events and issues presented in periodical publications, acquire information from them, and communicate this information both orally and in written form. Practical classes within this course focus on working with texts to improve students' communicative competence and develop their ability to recognize and use different styles of speech. Students are expected to apply the knowledge acquired in oral and written language practice, practical phonetics, and grammar while studying practical courses in translation, psychology, pedagogy, and methodology. In foreign language teaching, all language skills listening, reading, writing, and speaking are taught in an integrated manner. The development of course program and the assessment of students' achievements are based on established educational standards and assessment criteria.The teaching of the target foreign language is based on an integrated approach aimed at developing communicative, linguistic, sociolinguistic, discursive, strategic, professional, and intercultural competencies. Competency-based, communicative, and integrated approaches are implemented to ensure that students can effectively use the foreign language as a means of communication in their future professional activities.

The main objective of the course is to teach students how to appropriately assess communicative situations and use language effectively and efficiently. It also aims to develop comprehensive phonetic, grammatical, lexical, stylistic, and typological language skills, enabling students to communicate fluently and accurately in the target foreign language and express their views on contemporary political, economic, and social issues at both national and international levels.Within the framework of the English Language course science program, students are expected to: achieve A2-level proficiency in accordance with the Common European Framework of Reference for Languages (CEFR); Common European Framework of Reference for Languages (CEFR) ,develop listening, reading, speaking, and writing skills in the target foreign language; apply grammatical and lexical structures appropriately in communication and use them correctly in both spoken and written discourse; understand and accurately use vocabulary related to professional and socio-cultural topics; distinguish between the features of spoken and written discourse and apply them appropriately in communication; acquire the knowledge, skills, competencies, and understanding necessary for grammar, vocabulary, and discourse analysis. According to the curriculum, 48 classroom hours have been allocated for first-year students of non-philological programs.

Based on the above considerations, I conclude that the course science program prepared for non-philological programs meets the established academic and methodological requirements and is recommended for implementation in the educational process.

Reviewer: 

Professor of Samarkand State University named after Sharof Rashidov
Sh.Sh.Xushmuradova

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For the 2026–2027 academic year, for first-year bachelor's degree students of Samarkand State University named after Sharof Rashidov, of the Science program for the subject "foreign language", prepared by the teachers of the department of English language, linguistics and literature

REVIEW

The English Language course is designed to develop students' ability to read and comprehend literary works from countries where English is spoken, understand the main events and issues presented in periodical publications, acquire information from such sources, and communicate the acquired information both orally and in writing. Practical classes within the course focus on working with texts to enhance students' communicative competence and develop their ability to recognize and use various styles of speech. Students are expected to apply the knowledge gained in oral and written language practice, practical phonetics, and grammar in the study of oral and written translation, as well as in practical courses related to psychology, pedagogy, and methodology. In teaching English as a foreign language, all language skills listening, reading, writing, and speaking are taught in an integrated manner. The development of course science program and the assessment of student achievement are carried out in accordance with established educational standards and assessment criteria.The course is based on an integrated approach to developing communicative, linguistic, sociolinguistic, discursive, strategic, professional, and intercultural competencies. Competency-based, communicative, and integrated approaches are implemented to ensure that students can effectively use English as a practical means of communication in their future professional activities.

The main objective of the course is to train students to evaluate communicative situations appropriately and use language accurately and effectively. The course also aims to develop comprehensive phonetic, grammatical, lexical, stylistic, and typological language skills, enabling students to communicate fluently and accurately in the target language and to express their views on contemporary political, economic, and social issues. Within the framework of the English Language course science program, students are expected to: achieve A2-level proficiency in accordance with the Common European Framework of Reference for Languages (CEFR); understand and accurately use vocabulary related to professional and socio-cultural topics; distinguish between the characteristics of spoken and written discourse and apply them appropriately in communication; acquire the knowledge, skills, and competencies necessary for grammar, vocabulary, and discourse analysis.

According to the curriculum, 48 classroom hours have been allocated for first-year students enrolled in non-philological programs.Based on the above considerations, I conclude that the course science program prepared for non-philological programs meets the established academic and methodological requirements and is recommended for implementation in the educational process.

Head of the Department of English Language Theory, Samarkand State Institute of Foreign Language, DSc, Profesaor — DSc., professor N.J.Sulaymanova

XODIMLAR BO'LIMI

TASDIQLAYMAN SamDCHTI KADRLAR

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Sharof Rashidov nomidagi SamDU Matematika fakulteti o'quv-uslubiy kengashi
№ 10 majlisining bayonnomasidan
K O' CH I R M A

2026 yil 13 iyun. Samarqand shahri

Rais – dots: A.Xurramov
Kotib – dots. Q.Ostonov
Qatnashdilar: 7 nafar o'quv-uslubiy kengash a'zolari.

KUN TARTIBI

2. Fan dasturlarni tasdiqlash haqida.

5) Matematika fakulteti 60540100 – Matematika ta'lim yo'nalishi uchun "FOREIGN LANGUAGE (ENGLISH) SCIENCE PROGRAM (Full time, Semester 1) "fanidan o'quv dasturini tasdiqlash.

ESHTILDI. O'quv-uslubiy kengash raisi dots: dots: A.Xurramov - 60540100 – Matematika ta'lim yo'nalishi uchun "FOREIGN LANGUAGE (ENGLISH) SCIENCE PROGRAM (Full time, Semester 1) "fanidan ishlab chiqilgan o'quv dasturi haqida ma'lumot berildi. Dastur amaldagi davlat ta'lim standartlari, malaka talablari hamda o'quv rejasiga muvofiq ishlab chiqilgani ta'kidlandi. "FOREIGN LANGUAGE (ENGLISH) SCIENCE PROGRAM (Full time, Semester 1) " fani o'quv dasturi matematika yo'nalishida tahsil olayotgan talabalarning kasbiy faoliyatida zarur bo'ladigan xorijiy til kompetensiyalarini shakllantirish va rivojlantirishga qaratilgan. Dastur tibbiy terminologiya, kasbiy muloqot, ilmiy-tibbiy adabiyotlarni o'qish va tahlil qilish, tibbiyot sohasidagi xalqaro axborot resurslaridan foydalanish hamda bemorlar va hamkasblar bilan xorijiy tilda samarali muloqot olib borish ko'nikmalarini egallashni nazarda tutadi.

SO'ZGA CHIQDI: dots. O. Mirzayev – Men ushbu fan dasturi bilan tanishib chiqdim. O'quv rejasiga muvofiq, 60540100 – Matematika ta'lim yo'nalishi uchun "FOREIGN LANGUAGE (ENGLISH) SCIENCE PROGRAM (Full time, Semester 1) "fani 1-semestrda o'qitiladi. Jami 120 soatni, ya'ni 4 kreditni tashkil etadi. Shundan 48 soat amaliy mashg'ulotlarga, 72 soat esa talabalarning mustaqil ta'limiga ajratilgan.

O'quv dasturi Sharof Rashidov nomidagi Samarqand davlat universiteti Markaziy Osiyo xalqlari tillari va madaniyatlari instituti "Ingliz tili, tilshunosligi va adabiyoti" kafedrasi assistenti N. Turakulova tomonidan ishlab chiqilgan. Taqrizchilar Sharof Rashidov nomidagi Samarqand davlat universiteti Markaziy Osiyo xalqlari tillari va madaniyatlari instituti "Ingliz tili, tilshunosligi va adabiyoti" kafedrasi professori Sh.Sh. Xalmuradova va Samarqand davlat chet tillar instituti ingliz tili nazariyasi kafedrasi mudiri, DSc, professor N.J. Sulaymonovalar tomonidan o'quv dasturiga ijobiy baho berilib, undan o'quv jarayonida foydalanish tavsiya etilgan.

Muhokama davomida o'quv dasturining maqsad va vazifalari, mavzular tarkibi, talabalarning kommunikativ kompetensiyalarini rivojlantirishga qaratilganligi hamda zamonaviy pedagogik texnologiyalar asosida tashkil etilishi qayd etildi.

QAROR QILINDI:

1. Matematika fakulteti 60540100 – Matematika ta'lim yo'nalishi uchun "FOREIGN LANGUAGE (ENGLISH) SCIENCE PROGRAM (Full time, Semester 1) "fanidan o'quv dasturi tasdiqlansin va o'quv jarayonida qo'llashga tavsiya etilsin.

2. O'quv-uslubiy kengash qarorini tasdiqlash institut Ilmiy kengashidan so'ralsin..

O'quv-uslubiy kengash raisi **dots. A.Xurramov**

Kotib: **dots. Q. Ostonov**

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