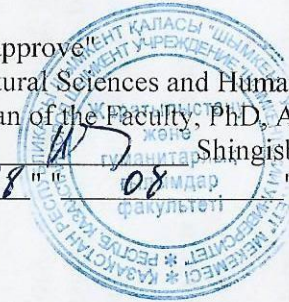


SHYMKENT UNIVERSITY



Faculty of Natural Sciences and Humanities

"I approve"  
Natural Sciences and Humanities  
Dean of the Faculty, PhD, Associate Professor  
Shingisbaev B. M.  
"28" "08" "2021 G.



**Department of Mathematics and Computer Science**  
Educational and methodical manual for the 2021-2022 academic year  
annual work plan

Discussed at the meeting of the department  
Protocol No. 1 ot "\_\_\_" 2021 28 08

Approved at the meeting of the educational and methodological Council of the faculty  
Protocol No. 1 ot "\_\_\_" 2021 28 08

### I. Educational and methodological work for the 2021-2022 academic year

№	The work performed	Period of execution	Responsible persons	Completion Form
1	Discussion, approval of the composition and work plan of the educational and methodological commission of the department.	August	Master's degree, Senior lecturer Turlybai G. S.	
2	Approval of work programs, syllabuses, calendar and thematic plans of disciplines studied in the 2021-2022 academic year.	August	Teaching staff of the Department	
3	Preparation of a methodological and thematic complex for the subjects taught in the optional component	August	Teaching staff of the Department	
4	Approval of the list of disciplines taught at the department in the 2021-2022 academic year.	August	Head of the Department	
5	Approval of graduation theses and supervisors of graduate students.	September	Head of the Department	
6	Discussion of the results during the rating week, preparation and conduct of the test and examination session, summing up the results.	During the year	Head of the Department Teaching staff of the Department	
7	Assessment of the performance of the teaching staff of the department according to the schedule of mutual attendance of classes.	November	Master's degree, Senior lecturer Turlybai G. S.	
8	Approval of students' academic supervisors, control over the publication of their works.	December	Master's degree, Senior lecturer Turlybai G. S.	
9	Hearing the report on the work of the department for the first half of the 2021-2022 academic year.	December	Head of the Department	
10	Participation in educational and methodological seminars and conferences.	During the year	Teaching staff of the Department	
11	Preparation of examination tickets, test questions for state exams.	April	Head of the Department	
12	6b01501-Mathematics, 6B01502-Computer Science, 6B06101-computer engineering and software for republican student subject Olympiads.	April	Teaching staff of the Department	
13	Hearing the annual report on the work done by the department in the	June	Head of the Department	

	2021-2022 academic year.			
14	Referral to the department of highly rated professors, teachers for the exchange of experience in universities of far and near abroad and Kazakhstan with a credit system of education.	During the year	Head of the Department Teaching staff of the Department	

**2.1. Printed data of electronic textbooks**

№	Surnames and initials of the authors	The name of the work	Types of educational and methodical literature (textbook, textbook, methodical manual, methodical manual, etc.))	The volume of the UMO (etc.)	Edition (pcs.)	The language of the publication	Date of publication
1	2	3	4	5	6	7	8
<b>1. Textbook</b>							
<b>Department of Mathematics and Computer Science</b>							
	Tursynbayev A.Z., Akhtaev M.B., Abdrashova E.T.	Optimization methods and mathematical modeling	textbook	6 б.т.	100	Kazakh	November, 2021
1	Akhtaev M.B., Kerimbayeva K.Z.	Differential equations	Study guide	6 б.т.	10	Kazakh	October, 2021
2	Dzhunusbekova S.S., Kerimbayeva K.Z., Myrzakhmetova Z.T.	Methods of teaching mathematics	Study guide	5,2 б.т.	10	Kazakh	October, 2021
3	Rakhashev B.K.	Computer circuit	Study guide	6 б.т.	10	Kazakh	November, 2021
4	Sarsenbi A.A.	Logical algebra with high value	Study guide	5 б.т.	10	Kazakh	November, 2021
5	Abdrashova E.T., Zhumanova R.E.	The basics of artificial intelligence	Study guide	6 б.т.	10	Kazakh	November, 2021
6	Dzhunusbekov D.S., Abdrashova E.T.	Algorithmization and programming	Study guide	6 б.т.	10	Kazakh	December 2021

7	Kasimova N.A.	The structure and content of the school textbook	Study guide	5 б.т.	10	Kazakh	December 2021
<b>3. Сборник лекций</b>							
1	Koshtybaev T.B.	Physics	methodological guidelines	4 б.т.	10	Kazakh	November, 2021
2	Dzhunusbekov D.S.	Programming technology	methodological guidelines	4 б.т.	10	Kazakh	October, 2021
3	Кокетаев А.И.	Theory of multidimensional functions	methodological guidelines	4 б.т.	10	Kazakh	November, 2021
4	Ахтаев М.Б.	Software processing equipment	methodological guidelines	5,3 б.т.	10	Kazakh	November, 2021
5	Джунусбекова С.С.	Introductory Mathematics course	methodological guidelines	4 б.т.	10	Kazakh	December 2021
6	Сәрсенбі Ә.Ә.	Graph theory	methodological guidelines	4 б.т.	10	Kazakh	December 2021

### 2.3 проведение учебно-методических семинаров

№	Full name of the teaching staff	Theme	Time of the event
1	Utebayeva Sholpan Kerimbaevna Ph.D., senior lecturer	General characteristics of the history of mathematics	November, 2021
2	Baizhumanov Abdusattar Abdykadyrovich candidate of Medical Sciences, Associate Professor	Drawing dead ends based on a geometric image	April, 2022
3	Medetbekova Ryskul Ashimalievna candidate of Medical Sciences, Associate Professor	The application of analytical geometry in space.	October, 2021
4	Bimenov Zhumagali Ayazovich Ph.D., Associate Professor	Differentiation of functions of complex variables	February, 2022
5	Bimenov Myrzagali Ayazovich Ph.D., Senior lecturer	Methods for solving systems of linear equations	September, 2021
6	Abdullaev Jasur Rahmankulovich Master's degree, Senior lecturer	The magnetic field	October, 2021

7	Pimenova Zairai Gayazovna Master, senior lecturer	Applying operations to finite limit functions	December 2021
8	Eskendirov Sharipzhan Zakharovich, Ph.D., Professor	Development of an automated information system for a WEB computer store	March, 2022
9	Kobeeva Zagira Saparbekovna Master's degree, Senior lecturer	Creating a database using the prolog language	January, 2022
10	Zhantureeva Meruert Zhumakhanova Master, Senior lecturer	Methodological possibilities of multimedia technologies	February, 2022
11	Turlybai Gulsinai Segizbaykisi Master's degree, Senior lecturer	Ways to obtain an electronic digital signature	March, 2022
12	Sartbay T. Ph.D., Associate Professor	Atomic nucleus and particle elements	December 2021
13	Musakulov Kusan Tolendievich PhD, Senior Lecturer	Technical equipment of the car	April, 2022
14	Simova Bibazhar Imanbekovna Senior Lecturer	Characteristics of the components of professional and pedagogical culture	November, 2021

**2.3. The plan of open teaching staff lessons for the 2021-2022 academic year**

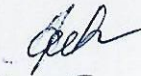
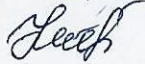
<b>№</b>	<b>Teacher's full name, academic degree, academic title</b>	<b>Date, Time and Place of the open lesson</b>	<b>Name of the item</b>	<b>Open lesson type</b>	<b>Lesson topic</b>
1	Eskendirov Sharipzhan Zakharovich, Doctor of Economics, Professor	March, 2022	Artificial intelligence	Lecture session	Development of an automated information system for a WEB computer store
2	Baizhumanov Abdusatar Abdukadirovich	April, 2022	Graph theory	Lecture session	Geometric image of closure based on video

3	Bimenov Zhumagali Ayazovich	February, 2022	Theory of functions of complex variables	Lecture session	Differentiation of functions of complex variables. Cauchy's theorem
4	Bimenov Myrzagali Ayazovich	September, 2021	Numerical methods	Lecture session	Methods for solving systems of linear equations
5	Sartbai T. Ph.D., Associate Professor	December 2021	Physics	Lecture session	Atomic nucleus and elementary particles
6	Utebaeva Sh ., PhD, senior lecturer	October, 2021 онлайн	Methods of teaching mathematics	Lecture session	Methods of teaching mathematics .
7	Medetbekova Ryskul Ashimalievna Ph.D., Associate Professor	October, 2021	Justification of geometry	Lecture session	Using spatial analytical geometry
8	Pimenova Zabirai Gayazovna Master, senior lecturer	October, 2021	Mathematical analysis	Practical lesson	Applying operations to finite limit functions
9	Kobeeva Zagira Saparbekovna Master's degree, Senior lecturer	November, 2021	Databases and information systems	Lecture session	Methods for finding the root of algebraic equations in mathcad
10	Zhantureeva Meruert Zhumakhanova Master's degree, Senior Lecturer	October, 2021	Multimedia technologies	Lecture session	Conditions and aspects of using multimedia technologies in the learning process
11	Abdullaev Jasur Rahmankulovich Master's degree, Senior lecturer	October, 2021	Physics	Practical lesson	The magnetic field
12	Turlybai Gulsinai Eight- year-old Master senior	March, 2022	E-government	Practical lesson	Ways to obtain an electronic digital signature

	lecturer				
13	Simova Bibazhar Senior lecturer	November, 2021	Introduction to the teaching profession	Lecture session	Characteristics of the components of professional and pedagogical culture
14	Hasan Musculov, PhD, Senior Lecturer	April, 2022	Cars and tractors	Practical lesson	Technical equipment of the car

Head of the department

The MIND is responsible

Utebaeva Sh.K.

Utembaeva A.S.