"Approved"
Vice-President

_____
" ___ " _____ 20 .

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
(proprietor)

V.N. Karazin Kharkiv National University
(university)

EDUCATIONAL PLAN for 2022-2024
area of knowledge 11 Mathematics and statistics
(code and title of area of knowledge)

Level of higher education

the second (Master of Sience) level

Apprenticeship – 1 year 9 months
on the basis of bachelor's degree
Educational qualification: Master in mathematics

Training of Master of Science
(level of higher education)

speciality 111 Mathematics
(code and title of speciality)

according to educational-research program Pure mathematics (the English language of instruction)
(code and title of program)

specialization_____
(code and title of specialization)

Form of education full-time
(full-time, by correspondence, distance)

I. TIME-TABLE OF EDUCATIONAL PROCESS

Year	September				October				November				December				January				February				March				April				May				June				July			A
	1	2	3	4	5	6	7	8	9	5	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T/C	C	C	C	K	K	K	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T/C	C	C	C	K	K	K	K	K	K
2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T/C	C	C	C	K	K	K	T	T	T	T	T/П	T/П	T/П	T/П	T/П	T/П	T/Д	T/Д	T/C	C	Д	Д										
3																																																	
4																																																	
5																																																	
6																																																	

II. TOTAL DAYS FROM THE TIME BUDGET, weeks

Year	Theoretical studies	Examinations and tests	Trainings	Certification examination	Thesis preparation	Vacations	Total
1	32	8				12	**52**
2	28	6	6		4	3	**39**
3							
4							
5							
6							
Total	**60**	**14**	**6**	**0**	**4**	**15**	**91**

LEGEND:
T - theoretical studies
C - examinations
П - training
К - vacations
// - certification examination
Д - thesis preparation and defence
T/C- tests

TRAININGS

Title of training	Term
Thesis scientific research training (no study leave granted	4

CERTIFICATION

Certification examination	Master's thesis
	Master's thesis

III. PLAN OF EDUCATIONAL PROCESS

1. COMPULSORY COMPONENTS

Code	COURSES AND RESEARCH WORKS	Four-level evaluation scale	Two-level evaluation scale	Tests	abstracts, translations	computational-graphic works	research works	Amount of ECTS-credits	Total	Total class hours	Lectures	Laboratory examinations	Practical classes	Seminars	Self-preparation	1	2	3	4	5	6	7	8	9
																16	16	16	12					

1.1 Cycle general training

Code	COURSES AND RESEARCH WORKS	Four-level	Two-level	Tests	abstracts	comp.-graphic	research	ECTS	Total	Total class hours	Lectures	Lab. exam.	Practical	Seminars	Self-prep.	1	2	3	4	5	6	7	8	9
1	Global problems of modernity		1					3	90	32	32				58	2								
2	Ukrainian as a foreign language	2	1	2	3			6	180	96			96		174	2	2	2						
3	Partial differential equations	1		1				6	180	64	64				116	4								
4	Algebra II	1		1				6	180	64	64				116	4								
5	Differential geometry of manifolds	1		1				6	180	64	64				116	4								
6	Functional analysis II	1		1				6	180	64	64				116	4								
	Total cycle 1.1			6	3			33	990	384	288		96		696	20	2	2						

1.2 Cycle of professional training

Code	COURSES AND RESEARCH WORKS	Four-level	Two-level	Tests	abstracts	comp.-graphic	research	ECTS	Total	Total class hours	Lectures	Lab. exam.	Practical	Seminars	Self-prep.	1	2	3	4	5	6	7	8	9
1	Complex analysis II	2		1				5	150	64	64				86		4							
2	Optimization and control theory	2		1				5	150	64	64				86		4							
3	Master's seminar		2,3,4					13	390	88				88	302		2	2	2					
4	Term scientific research work		2,3				2	14	420						420									
5	Thesis scientific research training (no study leave granted)		4					9	270						270									
6	Thesis preparation	4						6	180						180									
	Total cycle 1.2			2			3	52	1560	216	128			88	1344		10	2	2					
	Total compulsory components			8			3	85	2550	600	416		96	88	2040	20	12	4	2					

2. ELECTIVE COMPONENTS

2.1 Cycle of general training

	Total cycle 2.1																				

2.2 Cycle of professional training

№	Title						ECTS	Total						Self							
1	Course П-1	2		1			4	120	64	64				56	4						
2	Course П-2	2		1			4	120	64	64				56	4						
3	Course П-3	3		1			5	150	64	64				86		4					
4	Course П-4	3		1			5	150	64	64				86		4					
5	Course П-5	3		1			5	150	64	64				86		4					
6	Course П-6	4		1			4	120	48	48				72			4				
7	Course П-7	4		1			4	120	48	48				72			4				
8	Course П-7	4		1			4	120	48	48				72			4				
	Total cycle 2.2			8			35	1050	464	464				514	8	12	12				
	Total elective components			8			35	1050	464	464				514	8	12	12				
	Total						120	3600	1064	880		96	88	2554	20	20	16	14			
	Total per week														20	20	16	14			
	Amount of four-level scale marks														4	4	3	3			
	Amount of two-level scale marks														2	3	2	2			
	Amount of tests														5	5	3	3			
	Amount of term research works															1	1				

Note:

Four-level evaluation scale: marks "excellent", "good", "satisfactory", "unsatisfactory"

Two-level evaluation scale: marks "passed", "not passed"

SUMMARY

Title	Amount of ECTS-credits
Compulsory components	**85**
Elective components	**35**
Trainings	**9**
Thesis preparation	**9**
Research part	**42**
Total amount of ECTS-credits	**120**

Approved by the Scientific Council of V.N. Karazin Kharkiv National University
minutes № 9   dd. 30.05.2022

Dean of School of mathematics and Computer Sciences_____   Zholtkevych G.M.
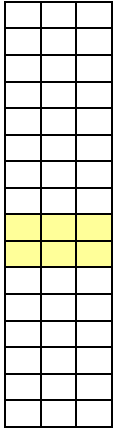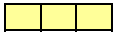   (signature, surname and initials)

August		
50	51	52
K	K	K

Weeks
6/9 cr

Term
4

years and

ear	6 year

10	11	12

III. Schem of Teaching Process
2022-2024 Teaching Year

Semester			Subject	Credits	Scale
		1	Global problems of modernity	3	P
		2	Ukrainian as a foreign language	3	P
1		3	Algebra II	6	E
		4	Functional analysis II	6	E
		5	Differential geometry of manifolds	6	E
		6	Partial differential equations	6	E
				24	
2		1	Complex analysis II	5	E
		2	Optimization and control theory	5	E
		3	Ukrainian as a foreign language	3	P
		4	E1	4	E
		5	E2	4	E
		6	Master's seminar	3	P
		7	Term scientific research work	6	P
				30	
3		1	E3	5	E
		2	E4	5	E
		3	E5	5	E
		6	Master's seminar	7	P
		7	Term scientific research work	8	P
				30	
4		1	E6	4	E
		2	E7	4	E
		3	E8	4	E
		4	Master's seminar	3	P
		5	Thesis scientific research training (no study leave granted)	9	P
		6	Thesis preparation	6	E
				30	

Scientific part	42
Elective part	31