KYRGYZ STATE UNIVERSITY OF CONSTRUCTION, TRANSPORT AND ARCHITECTURE named after N.ISANOV

CURRICULUM

Direction: 620100 - GEODESY AND REMOTE SENSING

PhD Education Program: GEODESY AND GEOINFORMATION TECHNOLOGIES

Qualification: DOCTOR BY PROFILE (PhD)

Study period: 3 YEARS

Education form: FULL TIME

"APPROVED"

Rector of KSUCTA n.a. N.Isanov

____________ Prof. Dr. A.A.Abdykalykov

Protocol # _6_ Academic Council of KSUCTA n.a. N.Isanov

from "__26__" _February____ 2021

1. Academic calendar

Weeks of the academic year

Year	SEPTEMBER				OCTOBER					NOVEMBER				DECEMBER					JANUARY			FEBRUARY				
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	EE					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	E	E	=	=	•
2	R	R	R	R	R	R	R	R	R	R	R	R	R	SRI	SRI	SRI	SRI	SRI	E	=	=	=	=	R	R	R
3	=	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	E	=	=	R	R	R

Year	MARCH					APRIL				MAY					JUNE				JULY				AUGUST			
	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52
1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	E	E	=	=	=	=	=	=	=	=	=
2	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	E	=	=	=	=	=	=	=	=	=
3	R	R	R	R	R	R	R	R	R	R	E	PDD	FPD	FPD	FPD	FPD	DD	=	=	=	=	=	=	=	=	=

2. Summary of time budget in weeks

		1 year			2 year			3 year			Total
		Semester 1	Semester 2	Subtotal	Semester 3	Semester 4	Subtotal	Semester 5	Semester 6	Subtotal	
EE	Entrance examinations	5		**5**							**5**
·	Theoretical studies	16	16	**32**							**32**
E	Examinations	2	2	**4**	1	1	**2**	1	1	**2**	**8**
R	Scientific-Research work, incl. a doctoral dissertation				13	19	**32**	19	13	**32**	**64**
SRI	Scientific-research internship				5		**5**				**5**
PDD	Pre-defense of the doctoral dissertation								1	**1**	**1**
FPD	Final preparation of the doctoral dissertation								4	**4**	**4**
DD	Defense of the doctoral dissertation								1	**1**	**1**
=	Holidays	2	9	**11**	4	9	**13**	3	9	**12**	**36**
Total:		**25**	**27**	**52**	**23**	**29**	**52**	**23**	**29**	**52**	**156**

Direction: 620100 - GEODESY AND REMOTE SENSING **PhD Education Program: GEODESY AND GEOINFORMATION TECHNOLOGIES**

Qualification: DOCTOR of PHYLOSOPHY/BY PROFILE (PhD) **Study period: 3 YEARS**

3. PLAN OF THE LEARNING PROCESS

No.	Course names	ECTS credits	Academic volume in hours						QA	Teachers of KSUCTA (GeoTAK)	International Teachers (GeoTAK)
			Total in hrs	Class hrs	included			Self study	Exam (semester)		
					Lec	Prac	Lab				
BLOCK I											
I. COURSES OF THE DIRECTION											
D.1.0.	**COMPULSORY COURCES**	**10**	**300**	**90**	**45**	**45**		**210**			
D.1.1.	SPATIAL DATA SCIENCE	10	300	90	45	45		210	2	Dr. Mirlan Dyldaev	Dr. Anka Lisec, Люблянский университет - UL, Словения
D.1.2.	**ELECTIVE COURCES**	**15**	**450**	**135**	**45**	**90**		**315**			
D.1.2.1	SCIENTIFIC RESEARCH METHODOLOGY / ACADEMIC WRITING AND COMMUNICATION	5	150	45	15	30		105	1	Dr. Makhavat Dzhusupova	-
D.1.2.2	HISTORY AND PHILOSOPHY OF SCIENCE / SCIENTOMETRICS	5	150	45	15	30		105	1	Dr. Nazgul Akmatova	-
D.1.2.3	INTRODUCTION TO GEOSPATIAL PROGRAMMING / APPLIED MATHEMATICS AND STATISTICS	5	150	45	15	30		105	1	Dr. Mirlan Dyldaev, Nursultan Ismailov	Dr. Jonathan C-W Chan, Брюссельский свободный университет - VUB, Бельгия
	SUBTOTAL of CYCLE 1 (in academic hours)		**750**	**225**	**90**	**135**		**525**			
	SUBTOTAL of CYCLE 1 (in ECTS credits)	**25**									
II. COURSES FOR THE SPECIALIZED TRAINING											
D.2.0.	**COMPULSORY COURCES**	**15**	**450**	**135**	**60**	**45**	**30**	**315**			
D.2.1.	COORDINATE SYSTEMS IN GEODESY	10	300	90	45	45		210	1	Dr. Akylbek Chymyrov, Aidar Kalykov	Dr. Huaan Fan, Королевский технологический институт – KTH, Швеция
D.2.2.	ADVANCED GEOINFORMATION TECHNOLOGIES	5	150	45	15		30	105	1	Dr. Ulan Chortombaev, Nagima Alimbekova	Dr. Anka Lisec, Люблянский университет - UL, Словения
D.2.3.	**ELECTIVE COURCES**	**20**	**600**	**180**	**75**	**45**		**420**			
D.2.3.1	INTEGRATED POSITIONING AND NAVIGATION / PHYSICAL GEODESY	10	300	90	45	45		210	2	Dr. Akylbek Chymyrov, Aidar Kalykov	Dr. Huaan Fan, Королевский технологический институт – KTH, Швеция
D.2.3.2	REMOTE SENSING APPLICATIONS IN LAND AND ENVIRONMENTAL MANAGEMENT / SPATIAL DATA INFRASTRUCTURE	10	300	90	30		60	210	2	Dr. Ulan Chortombaev, Tatygul Urmambetova	Dr. Luis Angel Ruiz Fernández, Политехнический университет Валенсии – PUV, Испания
	SUBTOTAL of CYCLE 2 (in hours)		**1050**	**315**	**135**	**90**	**30**	**735**			
	SUBTOTAL of CYCLE 2 (in ECTS credits)	**35**									
	TOTAL for BLOCK I (in hours)		**1800**	**540**				**1260**			
	TOTAL for BLOCK I (in ECTS credits)	**60**									
BLOCK II											
SCIENTIFIC RESEARCH WORK (INCLUDING DOCTORAL DISSERTATION WORK) AND INTERNSHIP											
No.	**Course names**	**ECTS credits**	**Academic volume in hrs**						**E**	**Total weeks**	
			Total in hrs	**Class hrs**	**included**			**Self study**			
					Lec	**Prac**	**Lab**				
R.3.1	**SCIENTIFIC RESEARCH WORK**	**100**	**3000**	900		0		2100	**3-6**	**83**	Dr. Akylbek Chymyrov, Local and International Research Supervisors	Dr. Luis Angel Ruiz Fernández, Политехнический университет Валенсии – PUV, Испания
R.3.2	**SCIENTIFIC RESEARCH INTERNSHIP**	**10**	**300**	90		90		210	**3**	**8**	Dr. Ulan Chortombaev	
	TOTAL for BLOCK II (in hours)		**3300**									
	TOTAL for BLOCK II (in ECTS credits)	**110**										
BLOCK III												
FINAL STATE EXAMINATION												
No.	**Course names**											
FSE.1	**PREPARATION AND DEFENSE OF THE DOCTORAL DISSERTATION**	**10**	**300**	90		90		210	**6**	**6**	Local and International Research Supervisors	
	TOTAL for BLOCK III (in hours)		**300**									
	TOTAL for BLOCK III (in ECTS credits)	**10**										
	Number of exams	**8**										
	TOTAL (in hours)		**5400**									
	TOTAL (in ECTS credits)	**180**										