MINISTRY OF EDUCATION AND SCIENCE OF THE REPUBLIC OF KAZAKHSTAN
JSC "KAZAKH-BRITISH TECHNICAL UNIVERSITY"

Approved by
Acting Rector of JSC "KBTU" _____ Gabdullin M.T.
Minutes SC № 13 dated "30" 06 2021

Working Curriculum
Educational program «Information Systems» ISE
of the 2021-2022 Academic Year

Academic Degree: Bachelor in Information and Communication Technology
Study Duration: 4 years

Year of Study	№	Code	UoL Code	Discipline	Cycle	Total credits ECTS	Total credits KZ	Hour Breakdown	Prerequisites	Code	UoL Code	Discipline	Cycle	Total credits ECTS	Total credits KZ	Hour Breakdown	Prerequisites
		1 semester								2 semester							
1	1	ISE1103	X	English Language 1	G	6	4	0/0/4		ISE1104	X	English Language 2	G	6	4	0/0/4	
	2	HUM 1101	X	Modern History of Kazakhstan	G	5	3	2/0/1		CSE 1110	X	Information and Communication Technology	G	5	3	1/0/2	
	3	ISE1209	X	Principles of Microeconomics	C	5	3	2/0/1		ISE1210	X	Principles of Macroeconomics	C	5	3	2/0/1	
	4	ISE1211	X	Principles Statistics 1	C	5	3	2/0/1		ISE1212	X	Principles Statistics 2	C	5	3	2/0/1	
	5	ISE1213	X	Principles Calculus 1	C	5	3	2/0/1		ISE1214	X	Principles Calculus 2	C	5	3	2/0/1	
	6	PHE 101	X	Physical Education 1	G	4	2	2/0/1		PHE 102	X	Physical Education 2	G	4	2	2/0/1	
				Total		30	18					Total		30	18		
		3 semester								4 semester							
2	1	ISE1207	EC1002	Introduction to economics: Microeconomic Theory	C	5	3	2/0/1		ISE1208	EC1002	Introduction to economics: Macroeconomic Theory	C	6	3	2/0/1	
	2	ISE1217	ST104a	Statistics 1	C	5	3	2/0/1		ISE1218	ST104b	Statistics 2	C	6	3	2/0/1	
	3	ISE1219	MT1173	Algebra 1	C	5	3	2/0/1		ISE1220	MT1173	Algebra 2	C	6	3	2/0/1	
	4	ISE1215	MT1174	Calculus 1	C	5	3	2/0/1		ISE1216	MT1174	Calculus 2	C	6	3	2/0/1	
				OR								OR					
	3	ISE1237	MT1186	Mathematical Methods 1	C	5	3	2/0/1		ISE1238	MT1186	Mathematical Methods 2	C	6	3	2/0/1	
	4	ISE1239	MN1178	Business and management in a global context 1	C	5	3	2/0/1		ISE1240	MN1178	Business and management in a global context 2	C	6	3	2/0/1	
	5	LAN 1115 - LAN 1117 / LAN 1119	X	Kazakh/Russian language	G	5	3	2/0/1		HUM1102	X	Philosophy of Social Sciences	G	5	3	2/0/1	
	6	HUM 1132	X	Social and Political Science Module (Sociology and Political Science)	G	3	2	1/0/1			X	Elective Discipline	G	3	2		
				Total		28	17					Total		32	17		
		5 semester								6 semester							
3	1	ISE1221	EC2020	Elements of Econometrics 1	C	5	3	2/0/1	EC1002 / ST104a / MT105a or MT1174 or MT1186	ISE1222	EC2020	Elements of Econometrics 2	C	6	3	2/0/1	
	2	ISE1231	ST2133	Advanced statistics: distribution theory	C	5	3	2/0/1	ST104a / ST104b / MT105a or MT1174 or MT1186	ISE1232	ST2133	Advanced statistics: statistical inference	C	6	3	2/0/1	
	3		100/200 /300	Elective Discipline	C	5	3	2/0/1			100/200/ 300	Elective Discipline	C	6	3	2/0/1	
	4	ISE1330	ST2187	Elective Discipline (Business analytics, applied modelling and prediction 1)	S	5	3	2/0/1	ST104a / MT105a or MT1174 or MT1186	ISE1331	ST2187	Elective Discipline (Business analytics, applied modelling and prediction 2)	S	6	3	2/0/1	
	5	PRA 303	X	Internship	C	5	3					Elective Discipline	S	1	1	1/0/0	
	6	HUM 1133	X	Social and Political Science Module (Psychology and Cultural Studies)	G	5	3	2/0/1		LAN 1117-LAN 1118	X	Business / Professional Kazakh Language	G	5	3	2/0/1	
				Total		30	18					Total		30	16		
		7 semester								8 semester							
4	1	ISE1337	ST2195	Programming for data science 1	S	5	3	2/0/1		ISE1338	ST2195	Programming for data science 2	S	6	3	2/0/1	
	2	ISE1321	ST3189	Machine learning 1	S	5	3	2/0/1	ST104a / ST104b / MT105a with MT105b or MT1174 or MT1186	ISE1322	ST3189	Machine learning 2	S	6	3	2/0/1	
	3	ISE1323	ST3188	Elective Discipline (Statistical methods for market research 1)	S	5	3	2/0/1	ST104a	ISE1332	ST3188	Elective Discipline (Statistical methods for market research 2)	S	6	3	2/0/1	
	4		300	Elective Discipline	S	5	3	2/0/1			300	Elective Discipline	S	6	3	2/0/1	
	5	PRA 404	X	Pre Diploma Internship	S	4	2				X	Final Attestation		12	7		
				Total		24	14					Total		36	19		
												Total		240	137		

Cycle	Name of Cycle	Credits (ECTS) ECTS	Required	University	Optionally
G	General (Общий)	56	53		3
C	Core (Базовый)	112		101	11
S	Specialty (Проф.)	60		26	34
	Final Attestation	12	12		
	Total	240			

Vice Rector for Academic Affairs — Jumasseitova A.K.

Head of EMC — Koskina O.V.

Dean — Islyami A. A.