



APPROVED
Rector of Satbayev University
I. K. Beisembetov
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MAJOR CURRICULUM for 2018-2019 academic year admission
SB072400 – "Technological machines and equipment (by industry)"

Full-time study

Study duration : 4 years

Academic degree: bachelor of engineering and technology

Year of study	Code	Name of discipline	Cycle	Credits	lec/lab/pr	pre-requisites	2nd semester					
							Code	Name of discipline	Cycle	Credits	lec/lab/pr	pre-requisites
1	1st semester						2nd semester					
	LNG 105	English	G	3	0/0/3	Diagnostic test	LNG 105	English	G	3	0/0/3	
	LNG 1051	Beginner (A1)					LNG 1052	Elementary English (A1)				
	LNG 1052	Elementary English (A1)					LNG 1053	General English 1 (A2)				
	LNG 1053	General English 1 (A2)					LNG 1054	General English 2 (A2)				
	LNG 1054	General English 2 (A2)					LNG 1055	Academic English (B1)				
	LNG 1055	Academic English (B1)					LNG 1056	Business English (B2)				
	LNG 1056	Business English (B2)	LNG 1057	Professional English (B2+)								
	K(RI)Ya 1102	General Kazakh (Russian) (A2)	AK(R)Ya 1104	Academic Kazakh (Russian) (B1)	G	2	0/0/2	Diagnostic test				
	AK(R)Ya 1102.1	Academic Kazakh (Russian) (B1)	DK(R)Ya 1104.1	Business Kazakh (Russian) (B2)								
	DK(R)Ya 1102.2	Business Kazakh (Russian) (B2)	1101	Electives								
PHY111	Physics I	B	3	1/1/1	no	HUM113	Contemporary history of Kazakhstan	G	2	0/0/2	no	
MAT001	Algebra and mathematical analysis Mathematics I	B	3	1/0/2	Diagnostic test	PHY112	Physics II	B	3	1/1/1	PHY111	
CHE192	Chemistry	B	3	2/1/0	no	MAT001	Mathematics I Mathematics II	B	3	1/0/2	MAT001	
TEC193	Introduction to speciality	B	3	2/0/1	no	MCH166	Technology of construction materials	B	3	2/1/0	PHY112	
Total:						17	Total:					
Total:						17	Total:					
2	3rd semester						4rd semester					
	LNG 105	English	G	3	0/0/3		LNG 105	English	G	3	0/0/3	
	LNG 1053	General English 1 (A2)					LNG 1052	General English 2 (A2)				
	LNG 1054	General English 2 (A2)					LNG 1053	Academic English (B1)				
	LNG 1055	Academic English (B1)					LNG 1054	Business English (B2)				
	LNG 1056	Business English (B2)					LNG 1055	Professional English (B2+)				
	LNG 1057	Professional English (B2+)					LNG 1056	Professional English (B2+)				
	2102	Әнекxвс (B2+)					LNG 1056	Professional English (B2+)				
	HUM124	Philosophy	G	3	1/0/2	no	2103	Әнекxвс (B2+)	G	3	2/1/0	no
	MAT001	Mathematics II Mathematics III	B	3	1/0/2	MAT001	CSE174	Information and communication technology				
	PED413	Interchangeability, standardization and technical measurements	B	3	2/0/1	GEN101	GEN125	Basics of design and machine parts	B	3	2/0/1	GEN101
ELC103	Electrotechnics and microelectronics	B	3	2/1/0	PHY112	MAT001	Mathematics III Ordinary differential equations. MatLab	B	3	1/0/2	MAT001	
2212	Electives	B	3			2215	Electives	B	3			
Total:						18	Total:					
Total:						18	Total:					
3	5th semester						6th semester					
	AUT146	Basics of automation	B	3	2/1/0	ELC103	MNG102	Financial analysis and valuation of projects	G	3	2/0/1	MAT103
	SAF104	Industrial ecology and operational safety	B	3	1/0/2	no	TEC179	Installation and exploitation of technological machines	S	3	2/0/1	TEC178
	3220	Electives	B	3			TEC180	Repair of technological machines	S	3	2/0/1	TEC178
	3221	Electives	B	3			3223	Electives	B	3		
	3222	Electives	B	3			3305	Electives	S	3		
	3301	Electives	S	3			3306	Electives	S	3		
3302	Electives	S	3			Total:						
Total:						21	Total:					
Total:						21	Total:					
4	7th semester						8th semester					
	4307	Electives	S	3			ECA101	State speciality examination	FA	1		
	4308	Electives	S	3			ECA102	Preparation and defence of graduation project	FA	2		
	4309	Electives	S	3			Total:					
	4310	Electives	S	3			Total:					
	4311	Electives	S	3			Total:					
	4312	Electives	S	3			Total:					
Total:						18	Total:					
Total:						18	Total:					
Additional academic programmes (AAP)												
Year of study	Code	Name of discipline	Credits	Semester	Total number of credits							
1	AAP106, 118	Physical training I, II	0	1-2	Cycle of disciplines			compulsary	elective	total		
1	AAP101	Training Practice	2	2	Cycle of general disciplines (G)			22	5	27		
2	AAP109	Field Practice 1	4	4	Cycle of basic disciplines (B)			42	27	69		
3	AAP103	Field Practice 2	4	6	Cycle of special disciplines (S)			6	30	36		
4	AAP111	Undergraduate practice	1	8	Total of theoretical study:			70	62	132		
4		Complex test (EASP)	0	7	Professional internship (AAP)			11	-	11		
1		The Modern History of Kazakhstan (Videoleksiya)	1	1-2	Extra education			3	-	3		
1		The Kazakh language (Latin alphabet)	2	1-2	Final attestation (FA)			3	-	3		
2-3		Warfare	0	3-6	TOTAL:					149		

Decision of the Academic Council Satbayev University. Minutes № 9, dated 31.05.2018

Decision of the Educational and Methodological Board of Satbayev University. Minutes № 3, dated 09.06.2018

Decision of Academic council of Mining and metallurgy institute named after O.A. Baykonurov. Minutes № 11, dated 19.12.2017

Vice-rector for academic affairs

Director of Mining and metallurgy institute named after O.A. Baykonurov

Head of department "Technological machines and equipment"

Representative of Specialty council

R.M. Iskakov
Z.S. Abisheva
K.K. Yelemessov
M.A. Kanatbaev