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APPROVED

Chairman of the Management Board-Rector of Nature named after K.Satpayev M.M. Begentaev 04 2024 y.



SATBAYEV UNIVERSITY

CURRICULUM

of Educational Program on enrollment for 2024-2025 academic year

Educational program 6B07220- "Machines and technologies for processing new materials" Group of Educational programs B069 - "Production of materials (glass, paper, plastic, wood)"

			f study: 4	Total	alacanaa	SIS	Form of	Academic degree: Bachelor of Englineering and Technology Allocation of face-to-face training based on courses and semesters							
Discipline code	Name of disciplines	Cycle	Total amount		classroo m volume of	(includin	1.1995.2011.0010		urse	II course		III course			ourse
			in credits					1 semester	2 semester	3 semester	4 semester	5 semester	6 semester	7 semester	8 semest
YCLE OI	F GENERAL EDUCATION DISC	IPLINES (G	ED)												
				1	M-1. Mod	ule of lang	age train	ing							
NG 108	English language	GED, RC	5	150	0/0/3	105	E	5							
NG 108	English language	GED, RC	5	150	0/0/3	105	Е		5						
NG 104	Kazakh (Russian) language	GED, RC	5	150	0/0/3	105	E	5							
NG 104	Kazakh (Russian) language	GED, RC	5	150	0/0/3	105	E		5			1			
(4) (4)					M-2. Mod	ule of phys	ical traini	ng				h		T	
KFK 101-	Physical Culture	GED, RC	8	240	0/0/8	120	Diferedit	2.	2	2	2				
104						of informa		ology							
11-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	Information and communication						tion teem	lology			-	1			1
SE 677	technologies	GED, RC	5	150	2/1/0	105	E				5				
	teennoiogies			M-4.	Module o	f socio-cult	ural deve	opment							
UM 137	History of Kazakhstan	GED, RC	5	150	1/0/2	105	SE	lopment	5						T
UM 132	Philosophy	GED, RC	5	150	1/0/2	105	E				5				
	Socio-political knowledge module	920,00													
IUM-120	(sociology, politology) Socio-political knowledge module	GED, RC	3	90	1/0/1	60	E				3				
UM 134	(culturology, psychology)		5	150	2/0/1	150	Е			5					
1			M-5, M	odule of a	nti-corrup	tion cultur	e, ecology	and life s	afety base						
1031200	Fundamentals of scientific														
MSM500	research methods														
45.055 4000	Fundamentals of Economics and														
/NG 489	Entrepreneurship			100	3/0/1	150									
	Fundamentals of Anti-corruption	GED, CCH	5	150	2/0/1	150	E			5					
IUM 136	Culture and Law														
HE 656	Ecology and life safety								- C						
1NG564	Basics of Financial Literacy														
	F BASIC DISCIPLINES (BD)				4										
				M.6 Mo	dule of phy	vsical and	mathemat	ical traini	nα						
4.4.00 4.054	Mashauratian I	DD LIC										1	(*************************************		T
AAT 101	Mathematics I	BD, UC BD, UC	5	150	1/0/2	105	E	5							
HY 111 4AT 102	Physics I Mathematics II	BD, UC	5	150	1/0/2	105	E	3	5						1.
PHY112	Физика II	BD, UC	5	150	1/1/1	105			5						
	+ DIARD II	55,00				technical	training n	ndule							
4SM132	Introduction to engineering design	BD, UC	5	150	1/2/0	105	Э	5		-					1
	the second	BD, UC	5	150	0/0/3	105	3	5					1		
SO111	Production workshops	BD, UC	2	150	0/0/5	105		2							
ACH532	Standardization, interchangeability and technical measurements	BD, UC	5	150	1/1/1	105	Э			5					
4AT402	Classic mechanics	BD, UC	5	150	1/0/2	105	Э			5					-
4SM106	Probabilistic models in industrial	BD, UC	5	150	1/1/1	105	Э					5			
inite in	engineering	00.00	-	120	1.20	105	-								
4CH505	Modern construction materials	BD, UC	5	150	1/2/0	105	Э			5					
ELC101	Electrical and Electronics engineering	BD, UC	5	150	1/1/1	105	Э			5					
IEN408	Resistance of materials	BD, UC	5	150	1/1/1	105	Э				5				-
4SM420	Heating and heating devices	BD, UC	4	120	1/0/2	75	Э				4				
viaivi+20	Bases of designing and details of		4	120	11012	65	3				4				
JEN 125	cars	BD, UC	5	150	1/1/1	105	Э		1			5			
MCH531	Qualimetry in mechanical engineering	BD, UC	5	120	2/0/1	75	Э					5			
MCH416	Forging and hot stamping technology	BD, UC	5	150	1/2/0	105	Э					5			
ISM136	Engineering Economy	BD, UC	5	150	1/0/2	105	Э						5		
-	Automated design of PMP	BD, UC	6	180	2/0/2	120	Э								
MSM414	processes Hydraulics and hydropneumatic	Second Second				10000		-						6	
MSM149	drive	BD, UC	5	150	1/0/2	105	Э					5			
					Elective	discipline	s of the BI)							
103.11.53	Theory of materials processing by														-
MSM163	pressure	BD, CCH	5	150	1/0/2	105	E						5		
SE831	Fundamentals of Artificial	bD, CCH	3	150	110/2	105	C					1	5		
20231	Intelligence														
	Forging and stamping equipment														

MNG563	Fundamentals of sustainable development and ESG projects in Kanakhater	BD, CCH	5	150	2/0/1	105	E				1		5	1	1
ASM461	Kazakhstan Design of forging and stamping equipment				2/1/0										
/NG562	Legal regulation of intellectual property	BD, CCH	5	150	2/0/1	105	Э						5		
AAP167	Training Practice	BD, UC	Ĩ						1						1.000
CYCLE O	F PROFILE DISCIPLINES (PD)			-					1			1	1		-
E.	10		N	-8. Modul	e of produ	ction and	technolog	ical prepa	ration	-					
TYD482	Labor protection and industrial safety (by industry)	BD, UC	5	150	2/0/1	105	Э		T					5	
ICH158	Техиология холодной штамповки	PD, UC	5	150	1/1/1	105	Э							5	
MSM129	Technological processes of machine-building production	PD, UC	5	150	2/1/0	105	Э						5		
MSM411	Computer-aided design systems of machine structures	PD, UC	4	120	1/2/0	75	Э								4
					Elective	disciplines	s of the Pi	D							
MSM453 MSM413	Tool and mold design Advanced materials processing technologies	PD, CCH	6	180	2/0/2	120	Э								6
ACH159	Fundamentals of designing machines for pressure treatment	PD, CCH	5	150	2/0/1	105	Э								
ISM416	Welding equipment and tools			15.0	2/0/1	105	3								5
4CH149	CAM(Solidworks, Inventor)	-	1.1	1000	1/2/0										-
/ISM119	Additive manufacturing	PD, CCH	5	150	2/0/1	105	Э							5	
4SM455	Organization and planning of forging and stamping production	PD, CCH	6	180	2/0/2	120	Э							6	
4SM421	Production design					105	Э					x		Ŭ	
ISM412	Composite materials processing technology	PD, CCH	5	150	1/2/0										
15M128	Properties and processing of engineering materials	nb, cen		150	1/1/1	105	3					5			
4SM467	Engineering Product Lifecycle Management	PD, CCH	5		1/0/2										
4CH523	Digital twins in mechanical engineering	10,001		150	1/2/0	105	5							5	
AP197	Industrial practice I	PD, UC	4								4				
AP176	Industrial practice II	PD, UC	5										5		
				M-9. Man	agement ti	aining mo	dule (E)	lective R&	D)		0				
1NG481	Theory and practice of project management	PD, CCH	5	150	2/0/1	105	E								5
ISM418	Capstone Project				1/2/0		_								196
					M-10. Mod	ule of fina	al attestat	ion							
ECA109	Writing and defending a thesis (project)	FE	8												8
Name of				M-11.	Module of	additiona	l types of	training							
AAP500	Military affairs	ATT	0												
	Total based on UNIVERSITY:							32	28	32	28	30	30	32	28
								1 1/4	60		0		0		0

	Cycles of disciplines	period of study Credits						
Cycle code		required component (RC)	university component (UC)	component of choice (CCH)	Total			
GED	Cycle of general education disciplines	51		5	56			
BD	Cycle of basic disciplines		101	15	116			
PD	Cycle of profile disciplines		23	37	60			
	Total for theoretical training:	51	124	57	232			
FA	Final attestation	8			8			
	TOTAL:	59	124	57	240			

Decision of the Academic Council of Kazntu named after K.Satpayev. Protocol Nollor "22 " 04 20 29 y.

Decision of the Educational and Methodological Council of Kazntu named after K.Satpayev. Protocol No 6 or "19" 2021 y.

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Decision of the Academic Council of the Institute E&ME. Protocol No 4 or "19" 01 20 205. They Board Member -Vice-Rector for Academic Affairs

E&ME Institute Director

ME Department Head

R.Uskenbaeva K.Yelemessov E.Nugman

Specialty Council representative from employers

I. Dyusebaev