KAZAKH NATIONAL RESEARCH TECHNICAL UNIVERSITY named after K.I.SATPAYEV



APPROVED Cheirman of the Management Board-toe of Kazntu named after K.Satpayev M.M. Begentaev 2023 y.

CURRICULUM

of Educational Program on enrollment for 2023-2024 academic year

Educational program 7M07228 - "Advanced materials processing technologies" Group of educational programs M113 - "Technology of materials processing by pressure"

Discipline code	Name of disciplines	Cycle	Total amount in credits	Total hours	Classroom amount lec/lab/pr	SIS (including	Form of control	Allocation of face-to-face training based on courses and semesters			
	of disciplines					TSIS) in		I co	ourse	2 course	
						hours		1 semester	2 semester	3 semester	4 semester
CYCLE	OF BASIC DISCIPLINES (BD)	A CONTRACTOR				e transfer		1 4811184151	2 semester	3 semester	4 semester
The state of the s		l. Engineeri	ng training	modu	le (universi	ty compon	ant)				
LNG210	English (professional)	BD UC	5	150	0/0/3	105	E	5			1.00
HUM214	Management Psychology	BD UC	3	90	1/0/1	60	E		3	The second second	
HUM212	History and philosophy of science	BD UC	3	90	1/0/1	60	E	and the second	3		
HUM213	Higher school pedagogy	BD UC	3	90	1/0/1	60	Е	3			
			compoi	nent of	choice						
MSM227	Rolling production equipment and technologies	BD CCH	5	150	2/0/1	105	Е	5			
MSM228	Pressing and drawing technologies										
MSM220	Technological processes of additive manufacturing			1 1100 11 11							
MCH206	Methodology of creation and management of a single information space of an industrial enterprise	BD CCH	5	150	2/0/1	105	Е	5			
MCH278	Mechanochemical pressure treatments			VI 1 1 1 1	7.7.7.7		A				
MCH270	Mechanical systems in the process of pressure treatment	BD CCH	5	150	2/0/1	105	Е			5	
CYCLE (OF PROFILE DISCIPLINES (PD)										
CICLL	M-2 The module of digitalization	n of motoria									
	M-2. The module of digitalization Virtual factory and Augmented reality	of materia	is processi	ng by p	ressure (ui	niversity co	ompone	nt, compo	nent of cho	ice)	
MSM201	production	PD UC	5	150	2/0/1	105	Е	5		4.4	
MSM218	Digital design and modeling	PD UC	5	150	2/0/1	105	Е	5			
MSM202	Advanced digital production monitoring	PD UC	5	150	2/0/1	105	Е		5		
MSM206	Innovative processes of digitalization of machine-building production	PD UC	5	150	2/0/1	105	Е			5	
MSM210	CAE/PLM of machine-building		100								
MCH244	production	PD CCH	5	150	2/0/1	105	Е			5	
МСП244	PLM/PDM processes										
	Multipurpose equipment in digital					vers je orsko	or are lived		A. V. V.		
ND209	production	PD CCH	5	150	2/0/1	105	Е			1.8	g 6
SO246	Flexible production systems and	12 0011		150	2/0/1	103	-		5		-
MCH284	complexes in mechanical engineering										
The British do Al	Technological bases of powder Nanomaterials for pressure treatment	PD CCH	5	150	2/0/1	105	Е		5		
13111210	Digital systems of machine-building production	PD CCH	5	150	2/0/1	105	Е			5	
	Additive Manufacturing operating										
	Pipe production technologies	PD CCH	4	120	2/0/1	75	_		74 - N. N. W. W. W. W. W.		
4SM230	Tribology in pressure treatment	I D CCH					Е			4	
VISIVIZ 14 I	Occupational health and safety of additive manufacturing	PD CCH	5	150	2/0/1	105	Е	* * * * * * * * * * * * * * * * * * *		5	
	Gas and plasma atomization										

		M-	-3. Practi	ice-orie	nted modul	e					
AAP229	Pedagogical practice	BD UC	6				1		6	1	
AAP256	Research practice	PD, CCH	4								4
		M-4.	Experim	ental r	esearch mod	dule		-			
AAP251	Research work of a master's student, including internship and completion of a master's thesis	RWMS UC	2					2			
AAP241	Research work of a master's student, including internship and completion of a master's thesis	RWMS UC	3						3		
AAP254	Research work of a master's student, including internship and completion of a master's thesis	RWMS UC	5							5	
AAP255	Research work of a master's student, including internship and completion of a master's thesis	RWMS UC	14					x			14
		M-:	5. Modul	e of fin	al attestatio	n					
ECA212	Preparation and defense of a master's thesis	FA	8								8
	Total based on UNIVERSITY:							30	30	34	2
								60		60	

700	Number of credits for the entire per	iod of st	udy				
	Cycles of disciplines	Credits					
Cycle code			university component (UC)	component of choice (CCH)	Total		
BD	Cycle of basic disciplines		20	15	35		
PD	Cycle of profile disciplines		24	29	53		
	Total for theoretical training:	0	44	44	88		
	RWMS				24		
FA	Final attestation	8			8		
	TOTAL:	8	44	44	120		

Decision of the Academic Council of Kazntu named after K.Satpayev. Protocol No 3 or " 12" 10 20 LL y.

Decision of the Educational and Methodological Council of Kazntu named after K.Satpayev. Protocol № 2 or " 20 12y.

Decision of the Academic Council of the Institute E&MP. Protocol № 2_or "_// " ____/0 20 14 y.

Vice-Rector for Academic Affairs

B. A. Zhautikov

E&ME Institute Director

K. Yelemessov

ME Department Head

E.Nugman

Representative of the Council for EP from Employers_

I. Dyusebaev