

APPROVED
Charring of the Management BoardRector of Karintu named after K.Satpayev

M.M. Begentaev

2023 y.

зерттеу унив

CURRICULUM

of Educational Program on enrollment for 2023-2024

Educational program 8D07113 - "Additive manufacturing" Group of Educational programs D103 - "Mechanics and metalworking"

Academic degree: Doctor of Philosophy (PhD) Duration of study: 3 year Form of study: full-time Allocation of face-to-face training based on courses and semesters SIS Classroom Form of Total Total amoun Discipline 2 course Cycle I course Name of disciplines TSIS) in control in credits lec/lab/pr 1 semester 2 semester 3 semester 4 semester 5 semester 6 semester hours CYCLE OF BASIC DISCIPLINES (BD) M-1. Technical training module (university component) E 105 2/0/1 BD UC 5 150 Scientific research methods **MET322** 150 0/0/3 105 E BD UC LNG305 Academic writing component of choice Virtual production E 5 MSM307 150 2/0/1 BD CCH Advanced Digital factory MSM306 CYCLE OF PROFILE DISCIPLINES (PD) M-2. Additive manufacturing module (component of choice) Advanced 3D nanoprinting MSM303 2/0/1 105 PD CCH 150 technologies Advanced production systems IND311 Development of advanced control 5 IND313 2/0/1 105 E 150 5 PD CCH systems IND300 Digital production M-3. Practice-oriented module 10 BD UC 10 AAP350 Pedagogical practice AAP355 Research practice PD UC 10 M-4. Experimental research module 5 Research work of a doctoral 5 RWDS candidate, including internships and AAP336 UC completion of a doctoral dissertation 20 20 40 Research work of a doctoral **RWDS** candidate, including internships and AAP347 UC completion of a doctoral dissertation Research work of a doctoral 30 30 RWDS candidate, including internships and AAP356 UC completion of a doctoral dissertation Research work of a doctoral 18 RWDS 18 candidate, including internships and AAP348 UC completion of a doctoral dissertation M-5. Module of final attestation 12 Writing and defending a doctoral 12 FA ECA303 dissertation 30 30 30 30 30 30 Total based on UNIVERSITY: 60

	Number of credits for the entire	period of	study		
- 17	Cycles of disciplines	Credits			
Cycle code			university component (UC)	component of choice (CCH)	Total
BD	Cycle of basic disciplines		20	5	25
	Cycle of profile disciplines		10	10	20
PD	Total for theoretical training:	0	30	15	45
	RWDS				123
		12			12
FA	Final attestation TOTAL:	12	30	15	180

Decision of the Academic Council of Kazntu named after K.Satpayev. Protocol Na 3 or "14" 10 20 12y.

Decision of the Educational and Methodological Council of Kazntu named after K.Satpayev. Protocol Nu 20 " 10 20 11 y.

Decision of the Academic Council of the Institute E&ME . Protocol Net or "11" 10 20 Mg

Vice Rector for Academic Affairs Lee B.A. Zhautikov

Vice-Rector for Academic Affairs B.A. Z

E&ME Institute Director K.Yelemessov

ME Department Head _____ E.Nugman

Representative of the Council for EP from Employers ______ M.Azimbekov