



**SATBAYEV
UNIVERSITY**



APPROVED

Chairman of the Management Board-
Rector of Kazntu named after K. Satpayev

M.M. Begentaev
2024 y.

CURRICULUM
of Educational Program on enrollment for 2024-2025 academic year

Educational program 8D07209 - "Advanced materials processing technologies"
Group of Educational programs D113 - "Technology of materials processing by pressure"

Form of study: full-time Duration of study: 3 year Academic degree: Doctor of Philosophy (PhD)

Discipline code	Name of disciplines	Cycle	Total amount in credits	Total hours	Classroom amount lec/lab/pr	SIS (including TSIS) in hours	Form of control	Allocation of face-to-face training based on courses and semesters						
								1 course			2 course			
								1 semester	2 semester	3 semester	4 semester	5 semester	6 semester	
CYCLE OF BASIC DISCIPLINES (BD)														
M-1. Technical training module (university component)														
MET322	Methods of scientific research	BD UC	5	150	2/0/1	105	E	5						
LNG305	Academic writing	BD UC	5	150	0/0/3	105	E	5						
Component of choice														
MSM308	Digital factory technologies	BD, CCH	5	150	2/0/1	105	E	5						
MNG350	Sustainability Science													
MNG349	Intellectual property and the global market													
CYCLE OF PROFILE DISCIPLINES (PD)														
M-2. Module of scientific and industrial training (component of choice)														
MSM309	Design optimization analysis of technologies and technological systems	PD, CCH	5	150	2/0/1	105	E	5						
IND311	Advanced production systems	PD, CCH	5	150	2/0/1	105	E	5						
MSM303	Advanced 3D nanoprining technologies													
IND313	Development of advanced control systems													
M-3. Practice-oriented module														
AAP350	Pedagogical practice	BD UC	10						10					
AAP355	Research practice	PD UC	10							10				
M-4. Experimental research module														
AAP336	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	5					5						
AAP347	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	40						20	20				
AAP356	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	60								30	30		
AAP348	Research work of a doctoral candidate, including internships and completion of a doctoral dissertation	RWDS UC	18											18
M-5. Module of final attestation														
ECA303	Writing and defending a doctoral dissertation	FA	12											12
Total based on UNIVERSITY:								30	30	30	30	30	30	
								60	60	60	60	60		

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

Decision of the Academic Council of Kazntu named after K.Satpayev. Protocol № 12 от "22" 04 2024 y.

Decision of the Educational and Methodological Council of Kazntu named after K.Satpayev. Protocol № 6 от "19" 04 2024 y.

Decision of the Academic Council of the Institute E&ME. Protocol № 4 от "18" 04 2024 y.

Board Member -Vice-Rector for Academic Affairs [Signature] R.Uskenbaeva
 E&ME Institute Director [Signature] K.Yelemessov
 ME Department Head [Signature] E.Nugman
 Representative of the Council for EP from Employers [Signature] M.Azimbekov