



APPROVED
 Chairman of the Management Board-
 Rector of KazITU named after K. Satpayev
 M.M. Begentaev
 2023 г.

CURRICULUM

of Educational Program on enrollment for 2023-2024 academic year

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

Form of study: full-time

Duration of study: 4 years

Academic degree: Bachelor of Engineering and Technology

Discipline code	Name of disciplines	Cycle	Total amount in credits	Total hours	classroom volume of lek/lab/pr	SIS (including TSIS) in hours	Form of control	Allocation of face-to-face training based on courses and semesters							
								I course		II course		III course		IV course	
								1 semester	2 semester	3 semester	4 semester	5 semester	6 semester	7 semester	8 semester
CYCLE OF GENERAL EDUCATION DISCIPLINES (GED)															
M-1. Module of language training															
LNG 108	English language	GED, RC	10	300	0/0/6	210	E	5	5						
LNG 104	Kazakh (Russian) language	GED, RC	10	300	0/0/6	210	E	5	5						
M-2. Module of physical training															
KFK 101-104	Physical Culture	GED, RC	8	240	0/0/8	120	Difcredit	2	2	2	2				
M-3. Module of information technology															
CSE 677	Information and communication technologies (in English)	GED, RC	5	150	2/1/0	105	E				5				
M-4. Module of socio-cultural development															
HUM 137	History of Kazakhstan	GED, RC	5	150	1/0/2	105	SE		5						
HUM 132	Philosophy	GED, RC	5	150	1/0/2	105	E				5				
HUM 120	Socio-political knowledge module (sociology, politology)	GED, RC	3	90	1/0/1	60	E				3				
HUM 134	Socio-political knowledge module (culturology, psyhology)		5	150	2/0/1	150	E			5					
M-5. Module of anti-corruption culture, ecology and life safety base															
HUM 136	Fundamentals of Anti-corruption Culture and Law	GED, CCH	5	150	2/0/1	150	E				5				
MNG 489	Fundamentals of Economics and Entrepreneurship														
MSM500	Fundamentals of scientific research methods														
CHE 656	Ecology and life safety														
CYCLE OF BASIC DISCIPLINES (BD)															
M-6. Module of physical and mathematical training															
MAT 101	Mathematics I	BD, UC	5	150	1/0/2	105	E	5							
PHY 111	Physics I	BD, UC	5	150	1/1/1	105	E	5							
MAT 102	Mathematics II	BD, UC	5	150	1/0/2	105	E		5						
PHY 112	Physics II	BD, UC	5	150	1/1/1	105	E		5						
M-7. General technical training module															
MSM132	Introduction to engineering design	BD, UC	5	150	1/2/0	105	E	5							
CHE815	General chemistry	BD, UC	4	120	1/1/1	75	E	4							
MCH532	Standardization, interchangeability and technical measurements	BD, UC	5	150	1/1/1	105	E			5					
GEN408	Resistance of materials	BD, UC	5	150	1/1/1	105	E				5				
MSM106	Probabilistic models in industrial engineering	BD, UC	5	150	1/1/1	105	E					5			
MAT402	Theoretical mechanics	BD, UC	5	150	1/0/2	105	E			5					
MCH505	Modern construction materials	BD, UC	5	150	1/2/0	105	E			5					
GEN 125	Design basics and machine parts	BD, UC	5	150	1/1/1	105	E					5			
ELC101	Electrical and Electronics engineering	BD, UC	5	150	1/1/1	105	E			5					
MCH531	Qualimetry	BD, UC	5	150	2/0/1	105	E					5			
MCH416	Forging and hot stamping technology	BD, UC	5	150	1/2/0	105	E					5			
MSM136	Economics of a machine-building enterprise	BD, UC	5	150	1/0/2	105	E						5		
MSM420	Heating and heating devices	BD, UC	4	120	1/0/2	75	E			4					
MSM414	Automated design of PMP processes	BD, UC	6	180	2/0/2	120	E							6	
MSM149	Hydraulics and hydropneumatic drive	BD, CCH	5	150	1/0/2	105	E				5				
3201	Elective	BD, CCH	5	150	1/0/2	105	E						5		
3202	Elective	BD, CCH	5	150	2/0/1	105	E						5		
3203	Elective	BD, CCH	5	150	1/0/2	105	E						5		
AAP196	Educational practice	BD, UC	2						2						
CYCLE OF PROFILE DISCIPLINES (PD)															
M-8. Module of production and technological preparation															

HYD482	Labor protection and industrial safety (by industry)	BD, UC	5	150	2/0/1	105	E						5				
MCH158	Cold stamping technology	PD, UC	5	150	1/1/1	105	E						5				
MSM129	Technological processes of machine-building production	PD, UC	5	150	2/1/0	105	E					5					
MSM411	Computer-aided design systems of machine structures	PD, UC	4	120	1/2/0	75	E							4			
4301	Elective	PD, CCH	5	150	2/0/1	105	E							5			
3302	Elective	PD, CCH	4	120	2/1/0	75	E							5			
4303	Elective	PD, CCH	6	180	2/0/2	120	E					4					
4304	Elective	PD, CCH	6	180	2/0/2	120	E						6				
3305	Elective	PD, CCH	5	150	1/2/0	105	E						6				
4306	Elective	PD, CCH	5	150	2/0/1	105	E				5						
AAP197	Production Practice I	PD, UC	4											5			
AAP198	Production Practice II	PD, UC	6								4						
M-9. Management training module																	
4307	Elective R&D	PD, CCH	5	150	2/1/0	105	E							5			
M-10. Module of final attestation																	
ECA108	Final examination	FE	8											8			
M-11. Module of additional types of training																	
AAP500	Military affairs	ATT	0														
Total based on UNIVERSITY:										31	29	32	28	30	30	33	27
										60	60	60	60	60	60	60	60

Number of credits for the entire period of study					
Cycle code	Cycles of disciplines	Credits			Total
		required component (RC)	university component (UC)	component of choice (CCH)	
GED	Cycle of general education disciplines	51		5	56
BD	Cycle of basic disciplines		96	15	111
PD	Cycle of profile disciplines		29	36	65
<i>Total for theoretical training:</i>		<i>51</i>	<i>125</i>	<i>56</i>	<i>232</i>
FA	Final attestation	8			8
TOTAL:		59	125	56	240

Decision of the Academic Council of Kazntu named after K.Satpayev. Protocol № 5 or "24" 11 2022 y.

Decision of the Educational and Methodological Council of Kazntu named after K.Satpayev. Protocol № 3 or "17" 11 2022 y.

Decision of the Academic Council of the Institute E&ME. Protocol № 2 or "11" 10 2022 y.

Vice-Rector for Academic Affairs [Signature] B. A. Zhautilkey

E&ME Institute Director [Signature] K. Yelemessov

ME Department Head [Signature] E. Nugman

Specialty Council representative from employers [Signature] I. Dyusebaev