

SATBAYEV UNIVERSITY

CURRICULUM

of Educational Program on enrollment for 2024-2025 academic yea

Educational program 6B07131- "Design and technology in mechanical engineering Group of Educational programs B064 - "Mechanics and metalworking"

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APPROVED

Chairman of the Management Board-

Rector of Kazulu named after K.Satpayev M.M. Begentaev M.D. 2024 y.

	Form of study: full-time Name of disciplines	Duration of Cycle	Total	Total	classroo	SIS	Form of	cademic degree: Bachelor of engineering and Technology Allocation of face-to-face training based on courses and semesters							
Discipline code	Name of disciplines	Cycle	amount in credits	hours	m volume of	(includin	control	I course II course III course IV course							
						g TSIS) in hours		1 semester	2 semester	3 semester	4 semester	5 semester	6 semester	7 semester	8 semester
YCLE O	F GENERAL EDUCATION DISC	IPLINES (G	ED)												
1				P	A-I. Modu	ule of lang	lage traini						P	-	
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	E		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						
					M-2. Mod	ule of phys	sical traini	ng				1	T		
KFK 101-	Physical Culture	GED, RC	8	240	0/0/8	120 .	Diferedit	2 .	2	2	2				
104				M-:	3. Module	of inform	tion techr	nology							
SE 677	Information and communication	GED, RC	5	150	2/1/0	105	Е				5				
	technologies			M-4.	Module o	f socio-cul	ural devel	lopment	1/						
		000 00	6			105	SE	1	5			1	1	1	1
IUM 137	History of Kazakhstan	GED, RC GED, RC	5	150	1/0/2	105	E				5				
IUM 132	Philosophy Socio-political knowledge module	July, NC									3				
IUM 120	(sociology, politology) Socio-political knowledge module	GED, RC	3	90	1/0/1	60	E				2				
IUM 134	(culturology, psychology)		5	150	2/0/1	150	E			5					
	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		M-5. N	lodule of a	nti-corru	ption cultu	re, ecology	and life	safety base						Version
MSN1500	Fundamentals of scientific research methods														
4NG 489	Fundamentals of Economics and														
	Entrepreneurship Fundamentals of Anti-corruption	GED, CCH	5	150	2/0/1	150	Е			5					
HUM 136	Culture and Law														
CHE.656	Ecology and life safety														
MNG564	Basics of Financial Literacy														
	F BASIC DISCIPLINES (BD)		-	1											
				M-6. Mo	dule of ph	ysical and	mathema	tical train	ing						_
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					-		
				150	1/0/2	105	E		5						
MAT 102	Mathematics II	BD, UC	5			ALK SHE			5	1			-		
		BD, UC БД, BK	5	150	1/1/1	105		modulo				_		1	
	Mathematics II		Callen Callen Callen	150 M	-7. Genera	al technica	training I		1	1	1	1	1	1	-
MAT 102 PHY112 MSM132	Mathematics II Физика II Introduction to engineering design	БД, ВК BD, UC	5	150 M 150	-7. Genera	al technica 105	training E	5							
PHY112	Mathematics II Физика II Introduction to engineering design Production workshops	БД, ВК BD, UC BD, UC	5	150 M 150 150	-7. Genera 1/2/0 0/0/3	al technica 105 105	training (E E								
PHY112 MSM132 ISO111 GEN412	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics	БД, ВК BD, UC BD, UC BD, UC	5 5 5 5	150 M 150 150 150	-7. Genera 1/2/0 0/0/3 2/0/1	105 105 105	E E E E E	5		5	4				
PHY112 MSM132 ISO111 GEN412 MCH502	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics	БД, ВК BD, UC BD, UC BD, UC BD, UC	5 5 5 5 5	150 M 150 150 150 150	-7. Genera 1/2/0 0/0/3 2/0/1 1/1/1	105 105 105 105 105	E E E E E E	5			5				
PHY112 MSM132 ISO111 GEN412 MCH502	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Graphic design of machine parts	БД, ВК BD, UC BD, UC BD, UC	5 5 5 5	150 M 150 150 150	-7. Genera 1/2/0 0/0/3 2/0/1	105 105 105	E E E E E	5		5	5				
PHY112 MSM132 SO111 GEN412 MCH502 MCH503	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Graphic design or machine parts (GAD) Interchangeability and basis of technical measurements	БД, ВК BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 5 5 5 5	150 M 150 150 150 150 150 150	-7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1	al technica 105 105 105 105 105 105 105 105	E E E E E E E E E E	5		5	5	5			
PHY112 MSM132 ISO111 GEN412 MCH502 MCH503 MCH504	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Graphic design or machine parts (GAD) Interchangeability and basis of	БД, ВК BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 5 5 5	150 M 150 150 150 150 150	-7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0	al technica 105 105 105 105 105	E E E E E E E E	5			5	5			
PHY112 MSM132 ISO111 GEN412 MCH502 MCH503 MCH504 MCH505	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Graphic design or machine parts (GAD) Interchangeability and basis of technical measurements	БД, ВК BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 5 5 5 5	150 M 150 150 150 150 150 150	-7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1	al technica 105 105 105 105 105 105 105 105	E E E E E E E E E E	5		5	5	5			
PHY112 MSM132 ISOT11 GEN412 MCH502 MCH503 MCH504 MCH505 GEN125	Mathematics II Φизика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Graphic design of materials Interchangeability and basis of technical measurements Modern construction materials Bases of designing and details of cars Electrical and Electronic	БД, ВК BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 5 5 5 5 5	150 M 150 150 150 150 150 150 150	-7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0	al technica 105 105 105 105 105 105 105 105	E E E E E E E E E E E E	5		5		5			
PHY112 MSM132 ISO111 GEN412 MCH502 MCH503 MCH504 MCH505 GEN125	Mathematics II Φизика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Composition of the engineering design of the technical measurements Modern construction materials Bases of designing and details of ears Electrical and Electronic Engineering Design of foundry and forging	БД, ВК BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 5 5 5 5 5 5 5 5 5 5 5	150 M 150 150 150 150 150 150 150 150 150 150 150 150 150 150	1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1	Itechnica 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105	E E E E E E E E E E E E E E E E E	5		5		5			
PHY112 MSM132 ISO111 GEN412 MCH502 MCH503 MCH504 MCH505 GEN125 ELC101 MCH507	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Craphe design of materials Interchangeability and basis of technical measurements Modern construction materials Bases of designing and details of cars Electrical and Electronic Engineering Design of foundry and forging technologies	БД, ВК BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 5 5 5 5 5 5 5	150 M 150 150 150 150 150 150 150 150 150 150 150 150 150 150	7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/1/1	Itechnica 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105 105	E E E E E E E E E E E E E E E E	5		5			5		
PHY112 MSM132 ISOITI GEN412 MCH502 MCH503 MCH504 MCH505 GEN125 ELC101 MCH507 MCH508	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Craphe design of materials Craphe design of materials Interchangeability and basis of technical measurements Modern construction materials Bases of designing and details of cars Electrical and Electronic Engineering Design of foundry and forging technologies Subtractive technologies	БД, ВК BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC BD, UC	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	150 M 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150 150	7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/1/1 1/1/1 1/1/1 1/1/1 1/1/1 1/1/1	Itechnica 105	E E E E E E E E E E E E E E E E E E E	5		5		5	5		
PHY112 ISO111 GEN412 MCH502 MCH503 MCH504 MCH505 GEN125 ELC101 MCH507 MCH508 MCH510	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Orapme design or machine parts Interchangeability and basis of technical measurements Modern construction materials Bases of designing and details of cars Electrical and Electronic Engineering Design of foundry and forging technologies Subtractive technologies Engineering equipment of machine building production	БД, ВК BD, UC BD, UC	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	150 M 150	7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/1/1 1/0/2 1/1/1 1/0/2	al technica 105	training I E E E E E E E E E E E E E E E E	5		5		5	5		
PHY112 MSM132 ISOITI GEN412 MCH502 MCH503 MCH504 MCH505 GEN125 ELC101 MCH507 MCH508	Mathematics II Физика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials GADS Interchangeability and basis of technical measurements Modern construction materials Bases of designing and details of cars Electrical and Electronic Engineering Design of foundry and forging technologies Subtractive technologies Engineering equipment of machine	БД, ВК BD, UC BD, UC	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	150 M 150	7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1/1 1/1/1/1 1/1/1/1 1/1/1/1	Itechnica 105	E E E E E E E E E E E E E E E E E E E	5		5		5	5		
PHY112 ISO111 GEN412 MCH502 MCH503 MCH504 MCH505 GEN125 ELC101 MCH507 MCH508 MCH510	Mathematics II Φизика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Graphic design of materials Interchangeability and basis of technical measurements Modern construction materials Bases of designing and details of cars Electrical and Electronic Engineering Design of foundry and forging technologies Subtractive technologies Engineering equipment of machine building production	БД, ВК BD, UC BD, UC	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	150 M 150	7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/1/1 1/0/2 1/1/1 1/0/2	Itechnica 105	training I E E E E E E E E E E E E E E E E	5		5		5	5	5	
PHY112 MSM132 ISOT11 GEN412 MCH502 MCH503 MCH504 MCH505 GEN125 ELC101 MCH507 MCH508 MCH510 MCH512	Mathematics II Φизика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Graphic design of materials Interchangeability and basis of technical measurements Modern construction materials Bases of designing and details of cars Electrical and Electronic Engineering Design of foundry and forging technologies Subtractive technologies Engineering or of machine- building production	БД, ВК BD, UC BD, UC	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	150 M 150	7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1/1 1/1/1/1 1/1/1/1 1/1/1/1	Itechnica 105	E E E E E E E E E E E E E E E E E E E	5		5		5	5	5	
PHY112 MSM132 ISO111 GEN412 MCH502 MCH503 MCH504 MCH505 GEN125 ELC101 MCH507 MCH508 MCH510 MCH512	Mathematics II Φизика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Orapine design of materials Cherchangeability and basis of technical measurements Modern construction materials Bases of designing and details of cars Electrical and Electronic Engineering Design of foundry and forging technologies Subtractive technologies Engineering equipment of machine- building equipment Engineering Economy Hydraulics and hydraulic	БД, ВК BD, UC BD, UC	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	150 M 150	7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/0/2 1/2/0 1/2/0 1/0/2 1/0/2	Itechnica 105	E E	5 5		5		5	5	5	
PHY112 MSM132 ISO111 GEN412 MCH502 MCH503 MCH504 MCH505 GEN125 ELC101 MCH507 MCH508 MCH510 MCH512 MSM136	Mathematics II Φизика II Introduction to engineering design Production workshops The theoretical mechanics Mechanics of materials Orapine design of materials Cherchangeability and basis of technical measurements Modern construction materials Bases of designing and details of cars Electrical and Electronic Engineering Design of foundry and forging technologies Subtractive technologies Engineering equipment of machine- building equipment Engineering Economy Hydraulics and hydraulic	БД, ВК BD, UC BD, UC	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	150 M 150	7. Genera 1/2/0 0/0/3 2/0/1 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/2/0 1/1/1 1/0/2 1/2/0 1/2/0 1/0/2 1/0/2	Itechnica 105	E E	5 5		5		5	5	5	

MNG562	Legal regulation of intellectual														
MNG563	property Fundamentals of sustainable development and ESG projects in Kazakhstan	BD, CCH	5	150	2/0/1	105	Е						5		
4SM149	Hydraulics and hydropneumatic			150	1/0/2	105	Е						5		
JEN119	drive Mechanics of liquid and gas	BD, CCH	5	150	1/1/1	105	E								
AP167	Training Practice	BD, UC	1						1						
	PROFILE DISCIPLINES (PD)														
1			M	-8. Modul	e of produ	ction and te	echnologic	al prepara	tion						
IYD482	Labor protection and industrial safety (by industry)	BD, UC	5	150	2/0/1	105	Е							5	
4SM176	Technology of mechanical engineering	PD, UC	5	150	1/0/2	105	E							5	
4SM129	Technological processes of machine-building production	PD, UC	5	150	2/1/0	105	E						5		
ASM467	Engineering Product Lifecycle Management	PD, UC	5	150	1/0/2	105	E								5
1					Elective	disciplines	of the PD								
MSM429	Automation of technological processes in mechanical engineering	PD, CCH	6	180	2/1/1	120	E								6
MSM430	Robotization of machine-building production														
MSM426	Design of machining on CNC machines	PD, CCH	5	150	1/0/2	105	Е								5
MSM428	Development of control programs				1/2/0										
MSM192	Innovative technologies in mechanical engineering	PD, CCH	5	150	1/0/2	105	Е							5	
MSM119	Additive manufacturing				2/0/1										
MSM457	Organization and planning of machine-building production	PD, CCH	6	180	2/0/2	120	E							6	
MSM421	Production design Design and calculation of						1								
MSM159	technological equipment Progressive methods of surface	PD, CCH	5	150	1/0/2	105	Е					5			
MSM431	treatment														
ISO170 MSM412	Designing of blank production Composite materials processing	PD, CCH	5	150	2/0/1	105	E							5	
and administrate a	technology Industrial practice 1	PD, UC	3								3				
AAP408	Industrial practice 1 Industrial practice II	PD, UC	5										5		
AAP176	transferrar province in	10,00	1	M-9. Ms	Inagement	training m	odule (E	lective R&	D)						
	Theory and practice of project				- Second		1	1	ľ.						
MNG481	management	PD, CCH	5	150	2/0/1	105	E								5
MSM418	Capstone Project				A CONTRACTOR OF	odule of fir	al attestat	tion	1				1		
	Writing and defending a thesis		- 28K	1	WI-10. WI		an attestal		1		1	1	-		8
ECA109	(project)	FE	8												0
4.4				M-1	1. Module	of addition	al types o	f training	1		1		1	1	
AAP500	Military affairs	ATT	0	-						20	28	30	30	31	29
and the second second	Total based on UNIVERSITY:							32	28	32	28	and the local data	60	in the second second	60

	Number of credits for the entire j	period of s	tudy					
	Cycles of disciplines	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			
1	Total for theoretical training:	51	124	57	232			
FA	Final attestation	8			8			
i.	TOTAL:	59	124	57	240			

Decision of the Academic Council of Kazntu named after K.Satpayev. Protocol Nellor "22 2014 y.

Decision of the Educational and Methodological Council of Kazntu named after K.Satpayev. Protocol No 6 or "19 " 04 20 24 y.

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Decision of the Academic Council of the Institute E&ME. Protocol № 4 or "19" 01 29 Jan.

Board Member -Vice-Rector for Academic Affairs

E&ME Institute Director

ME Department Head

BUskenbaeva K.Yelemessov E.Nugman

Specialty Council representative from employers _____

I. Dyusebaev