



CURRICULUM
of Educational Program on enrollment for 2023-2024 academic year

Educational program 6B07105- "Industrial engineering"
Group of Educational programs B064 - "Mechanics and metalworking"

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/p	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, psychology)		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						
PHY112	Физика II	БД, ВК	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							
MSM102	Basics of interchangeability	BD, UC	5	150	1/1/1	105	E			5					
GEN408	Resistance of materials	BD, UC	5	150	1/1/1	120	E				5				
MSM106	Probabilistic models in industrial engineering	BD, UC	5	150	1/1/1	105	E					5			
GEN412	Theoretical mechanics	BD, UC	5	150	2/0/1	105	E			5					
MSM133	Structural materials and heat treatment	BD, UC	5	150	1/2/0	105	E			5					
MSM410	Theory of mechanisms and machine parts	BD, UC	5	150	1/1/1	105	E					5			
ELC101	Electrical engineering and electronics	BD, UC	5	150	1/1/1	105	E			5					
MCH531	Qualimetry in mechanical engineering	BD, UC	5	150	2/0/1	105	E					5			
MSM401	Metalworking machines	BD, UC	5	150	1/0/2	105	E					5			
MSM419	Economics of a machine-building enterprise	BD, UC	5	150	1/0/2	105	E							5	
MSM435	Cutting theory	BD, UC	4	120	1/1/1	75	E				4				
MSM427	Automated design in mechanical engineering	BD, UC	6	180	1/2/1	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	1/0/2	105	E					5			

