



CURRICULUM
of Educational Program on enrollment for 2024-2025 academic year
Educational program 6B07307 - "Architecture"
Group of educational programs B073 - "Architecture"

Full-time form of education

Study period: 3 years

Academic degree: Bachelor of Engineering and Technology

Discipline Code	Name of disciplines	Cycle	Total volume in credits	Total hours	Audience volume lek/lab/pr	SRO (including SRO/P) in	form of control	Distribution of classroom studies by courses and semester										
								I course		II course		III course						
								1 semester	2 semester	3 semester	4 semester	5 semester	6 semester					
M-4. Socio-cultural development module																		
HUM 137	The history of Kazakhstan	OOD, OK	5	150	1/0/2	105	ГЭ	5										
CYCLE OF BASIC DISCIPLINES (BD)																		
M-6. Fundamental Training Module																		
CIV584	Construction mechanics	BD, VK	5	150	1/0/2	105	Э	5										
M-7. Basic training module																		
ARC157	Sculpture	BD, KV	5	150	0/0/3	105	Э	5										
ARC455	Plastic modeling																	
ARC551	Regional features of architecture																	
ARC552	Art History	BD, KV	4	120	2/0/1	75	Э	4										
M-8. Digital Modeling module																		
ARC507	Professional modeling in architecture III																	
ARC187	The basics of visual culture	BD, KV	5	150	0/0/3	105	Э	5										
ARC145	Professional modeling in architecture IV																	
ARC465	Digital modeling II	BD, KV	5	150	0/0/3	105	Э	5			5							
ARC529	Professional modeling in architecture V																	
ARC530	Digital modeling III	BD, KV	5	150	0/0/3	105	Э	5										
CSE831	The basics of artificial intelligence										5							
M-9. Engineering Training Module																		
CIV124	Engineering systems of buildings and structures	BD, VK	5	150	2/0/1*						5							
ARC106	Architectural typology	BD, VK	5	150	2/0/1*													
CIV164	Building structures	BD, VK	5	150	2/0/1*								5					
ARC555	Engineering improvement and transport	BD, VK	5	150	2/0/1*						5							
ARC588	Environmental objects of urbanized territories	BD, KV	6	180	2/0/2								6					
M-10. Technological module																		
ARC508	Architectural coloristics and lighting																	
ARC578	Light-color organization of the environment	BD, KV	5	150	1/0/2									5				
ARC159	Modern materials in architecture																	
ARC575	Special interior equipment	BD, KV	6	150	2/0/1						5							
ARC531	Interior design																	
MNG563	Fundamentals of sustainable development and ESG projects in Kazakhstan	BD, KV	5	150	0/0/3													
ARC461	Ergonomics																	
ARC553	Fundamentals of urban planning																	
ARC579	Urban environment equipment	BD, KV	6	180	2/0/2								6					
ARC558	Designing the master plan																	
ARC462	Urban ecology	BD, KV	5	150	1/0/2													
MNG562	Legal regulation of intellectual property																	
ARC557	Landscape architecture																	
ARC559	Landscape design	BD, KV	4	120	0/0/3									4				
CYCLE OF PROFILING DISCIPLINES (PD)																		
M-11. Integrated and Sustainable design module																		
ARC580	Methodology of designing architectural objects	PD, VK	4	120	1/0/2*	105	Э											
ARC509	Integrated design I	PD, VK	5	150	0/0/3*	105	Э	5						4				
ARC510	Integrated design II	PD, VK	5	150	0/0/3*	105	Э	5										
ARC440	Integrated design III	PD, VK	5	150	0/0/3*	105	Э											
ARC441	Integrated design IV	PD, VK	5	150	0/0/3*	105	Э			5								
ARC442	Integrated design V	PD, VK	5	150	0/0/3*	105	Э			5								
ARC443	Integrated design VI	PD, VK	5	150	0/0/3*	105	Э				5							
ARC444	Integrated design VIII	PD, VK	5	150	0/0/3*	105	Э				5							
ARC445	Integrated design VIII	PD, VK	5	150	0/0/3*	105	Э					5						
ARC135	Pre-graduate project I	PD, VK	5	150	0/0/3*	105	Э					5						
ARC127	Comprehensive project I	PD, VK	5	150	0/0/3*	105	Э											
ARC403	Pre-project analysis I																	
ARC128	Comprehensive project II	PD, VK	5	150	0/0/3*	105	Э							5				
ARC478	Principles of sustainable architecture																	
ARC483	Energy efficient design	PD, VK	5	150	2/0/1*	105	Э							5				
ARC406	Operational design																	
ARC108	Energy efficient design	PD, VK	5	150	0/0/3*	105	Э							5				
M-11. Training module																		
ARC132	Fundamentals of BIM technologies	PD, VK	5	150	0/0/3*	105	Э											
ARC560	Modern regulatory and legal aspects in architecture and urban planning	PD, VK	4	120	2/0/1*	75	Э						5					
MAP560	Geodesy in architecture																	
ARC562	Vertical layout of landscape architecture objects	PD, VK	4	120	1/0/2*	75	Э			4				4				
ARC563	Renovation of urban spaces																	
ARC470	Equipment for recreational urban areas	PD, VK	5	150	2/0/1*	105	Э				5							
ARC564	Reconstruction and modernization of buildings and complexes																	
ARC565	Restoration of architectural monuments	PD, VK	6	180	2/0/1*	135	Э						6					
AAP187	Industrial practice II	PD, VK	2															
AAP400	Industrial practice III	PD, VK	2															
M-9. Final assessment module																		
ECA113	Writing and defending a thesis (project)	IA	8											8				
M-10. Module of additional types of training																		
Total for UNIVERSITY:													34	31	30	30	30	30
													65		60			60

Cycle code	Cycles of disciplines	Loans				Total
		required at (OS)	univalent component (VC)	component of choice (CV)		
OOD	Cycle of general education disciplines	5				5
DB	Cycle of basic disciplines		20	61		81
PD	Cycle of major disciplines		56	35		91
IA	final examination	8				177
TOTAL:						185

Decision of the Academic Council of KazNRTU named after K.Satpayev. Protocol № 12or " 22 " april 2024 y.
 Decision of the Educational and Methodological Council of KazNRTU named after K.Satpayev. Protocol № 6 or " 19 " april 2024 y.
 Decision of the Academic Council of the Institute A&C after T.K.Basenov. Protocol № 7 or " 28 " March 2024 y.

Vice-Rector for Academic Affairs
 Director of the Institute of A&S them. T.K. Basenov
 Head of the Department "Architecture"
 Specialty Council representative from employers

R.K. Uskenbayeva
 B.U. Kuspangaliev
 K.R. Sultanova
 A.A. Mametov