(Ф 03.02-46)

AGREED
Head of Academics Department

O. Holubnychyi
"16" 06 2021

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
National Aviation University

APPROVED
Vice-Rector for Academics

A. Polukhin
"16" 06 2021

МІНІСТЕРСТВО ОСВІТИ І НАУКИ УКРАЇНИ НАЦІОНАЛЬНИЙ АВІАЦІЙНИЙ УНІВЕРСИТЕТ * 01132330 * МІСТО КИЇВ

EXTENDED CURRICULUM
EDUCATION SEEKERS TRAINING
foreign students - english project
№ ECB - 5 - 192 - 1 / 21 - fs

Educational and Professional Program:		Industrial and civil engineering
Academic Degree:		Bachelor
Field of study:	19	Architecture and construction
Specialty:	192	Building and civil engineering
Educational qualification:		Bachelor in Building and Civil Engineering
Mode of study:		Full-time
Training period:		3 years 10 months

On the basis of complete secondary education

I. Schedule of Academic Process

Year of study	September				29	October			27	November				December				29	January			26	February			23	March				30	April			27	May				June				29	July			27	August				Theoretical Courses	Examinations	Educational Training	On-the-Job Training	Attestation of Higher Education Seekers	Holidays	Total	Year of study
	1	8	15	22	IX	6	13	20	X	3	10	17	24	1	8	15	22	XII	5	12	19	I	2	9	16	II	2	9	16	23	III	6	13	20	IV	4	11	18	25	1	8	15	22	VI	6	13	20	VII	2	9	16	23								
					5				2									4				1				1					5				3									5				1												
	7	14	21	28	X	12	19	26	XI	9	16	23	30	7	14	21	28	I	11	18	25	II	8	15	22	III	8	15	22	29	IV	12	19	26	V	10	17	24	31	7	14	21	28	VII	12	19	26	VIII	8	15	22	31								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52								
I									17									=	=	::	::						17												::	::	O	O	=	=	=	=	=	=	=	=	=	=	34	4	2			12	52	I
II									17									=	=	::	::						17												::	::	X	X	=	=	=	=	=	=	=	=	=	=	34	4		2		12	52	II
III									17									=	=	::	::						17												::	::	X	X	=	=	=	=	=	=	=	=	=	=	34	4		2		12	52	III
IV									17									=	=	::	::						14									::	X	X	Д	Д	Д	Д											31	3		2	4	2	42	IV
																																																				Total	133	15	2	6	4	38	198	

II. Total amount of hours (in weeks)

LEGEND: [ ] Academic Classes; [=] Holidays; [::] Examinations; [O] Educational Training; [X] On-the-Job Training; Attestation of Higher Education Seekers: [Д] Qualification Paper; [>] Attestation Examination

III. Academic Curriculum

№	Subjects and Academic Activities	Hours per semesters: Examinations	Graded Test	Calculation and Graphic papers	Homework	Term Papers	Course Projects	ECTS Credits	Student's work (hours): Total	Work with a tutor: Classroom sessions	Lectures	Practicals (seminars)	Laboratory classes	Self-study	Departments
	MANDATORY COMPONENTS														
1.	**Humanities and Socio-Economic Subjects (510 / 17,0)**														
1.1	History of Ukrainian Statehood and Culture	2						3,0	90	34	17	17		56	96
1.2	Business Ukrainian Language	1						3,0	90	34		34		56	151
1.3	Professional Foreign Language (Ukrainian)	2	1g					4,5	135	68		68		67	151
1.4	Philosophy	3						3,5	105	51	17	34		54	97
1.5	Physical Training and Self-improvement		1g					3,0	90	34		34		56	811
2.	**Professional and Practical Training (4890 / 163,0)**														
2.1.	**Professionally Oriented Subjects (4350 / 145.0)**														
2.1.1	Higher Mathematics	1	2g,3g		1,2,3 1			17,0	510	255	102	153		255	67
2.1.2	Physics	2	1g		1 1			6,0	180	85	34	17	34	95	13
2.1.3	Chemistry		1g					3,5	105	51	34		17	54	55
2.1.4	Informatics (General Course)	1		1 1				6,0	180	85	34		51	95	53
2.1.5	Theoretical Mechanics (Statics)		2g	2 1				4,5	135	68	34		34	67	11
2.1.6	Introduction to Civil Engineering		2g		2 1			5,0	150	68	34	34		82	53
2.1.7	Engineering Graphics		1g,2g	1,2 1				7,0	210	102	34	34	34	108	51
2.1.8	Urban Planning and Transport	3				3		4,5	135	68	17	51		67	53
2.1.9	Mechanics of Materials	3		3 2				4,5	135	68	34		34	67	53
2.1.10	Structural Mechanics		4g	4 1				5,0	150	68	34		34	82	53
2.1.11	Engineering Geodesy (General Course)	4		4 1				3,5	105	51	17		34	54	53
2.1.12	Architecture of Buildings and Structures	5				5		5,0	150	68	34		34	82	53
2.1.13	Engineering Geology	6		6 1				5,0	150	68	34		34	82	53
2.1.14	Building Technical Equipment		5g		5 1			3,5	105	51	17	34		54	53
2.1.15	Construction Technology	6		6 1				5,0	150	68	34		34	82	53
2.1.16	Fluid Mechanics		6g		6 1			4,0	120	51	34		17	69	18
2.1.17	Heat-Gas Supply and Ventilation	7		7 1				3,5	105	51	17		34	54	53
2.1.18	Water Supply and Drain	7			7 1			3,5	105	51	17		34	54	53
2.1.19	Building Constructions	7				7		4,5	135	68	34		34	67	53
2.1.20	Fundamentals of Labor Protection		7g					3,0	90	34	17		17	56	54
2.1.21	Organization of Construction	8					8	5,0	150	70	28		42	80	53
2.1.22	Mechanics of Materials (Special Course) and Fundamentals of Plasticity and Elasticity Theory	4					4	5,5	165	68	34		34	97	53
2.1.23	Civil Engineering Materials	4			4 1			5,0	150	68	34		34	82	53
2.1.24	Production Base of Civil Engineering	5			5 1			5,0	150	68	34	34		82	53
2.1.25	Metal Structures	6					6	5,0	150	68	34		34	82	53
2.1.26	Structural Mechanics (Special Course)	5		5 2				4,5	135	68	34		34	67	53
2.1.27	Erection and Assembling of Structures		7g	7 1				3,5	105	51	17	34		54	53
2.1.28	Construction Economics		8g		8 2			4,0	120	56	14		42	64	53
2.1.29	Foundation Engineering	8		8 2				4,0	120	56	28	28		64	53
2.2.	**Practical Subjects (360 / 12,0)**														
2.2.1	Educational Trainings														
2.2.1.1	Professional Introductory Training in Industrial and Civil Engineering		2g					3,0	90					90	53
2.2.2	On-the-Job training														
2.2.2.1	Geodetic Practice for Industrial and Civil Engineering		4g					3,0	90					90	53
2.2.2.2	Technological Training for Industrial and Civil Engineering		6g					3,0	90					90	53
2.2.2.3	Majorrelated Training for Industrial and Civil Engineering		8g					3,0	90					90	53
2.3.	**Attestation of Higher Education Seekers (180 / 6,0)**														
2.3.1	Qualification Paper							6,0	180					180	53

Hours per years of study and semesters (classroom sessions, hours a week) — 1 and 2 Year of study

№	1 semester 17 weeks: Total	Lectures	Practicals (seminars)	Laboratory classes	Self-study	2 semester 17 weeks: Total	Lectures	Practicals (seminars)	Laboratory classes	Self-study	3 semester 17 weeks: Total	Lectures	Practicals (seminars)	Laboratory classes	Self-study	4 semester 17 weeks: Total	Lectures	Practicals (seminars)	Laboratory classes	Self-study
1.1						2	1	1		56										
1.2	2		2		56															
1.3	2		2		26	2		2		41										
1.4											3	1	2		54					
1.5	2		2		56															
2.1.1	5	2	3		95	5	2	3		80	5	2	3		80					
2.1.2	3	1	1	1	39	2	1		1	56										
2.1.3	3	2		1	54															
2.1.4	5	2		3	95															
2.1.5						4	2		2	67										
2.1.6						4	2	2		82										
2.1.7	3	1	2		54	3	1		2	54										
2.1.8											4	1	3		67					
2.1.9											4	2		2	67					
2.1.10																4	2		2	82
2.1.11																3	1		2	54
2.1.22																4	2		2	97
2.1.23																4	2		2	82
2.2.1.1						90				90										
2.2.2.1																90				90

Hours per years of study and semesters (classroom sessions, hours a week) — 3 and 4 Year of study

№	5 semester 17 weeks: Total	Lectures	Practicals (seminars)	Laboratory classes	Self-study	6 semester 17 weeks: Total	Lectures	Practicals (seminars)	Laboratory classes	Self-study	7 semester 17 weeks: Total	Lectures	Practicals (seminars)	Laboratory classes	Self-study	8 semester 14 weeks: Total	Lectures	Practicals (seminars)	Laboratory classes	Self-study
2.1.12	4	2		2	82															
2.1.13						4	2		2	82										
2.1.14	3	1	2		54															
2.1.15						4	2		2	82										
2.1.16						3	2		1	69										
2.1.17											3	1		2	54					
2.1.18											3	1		2	54					
2.1.19											4	2		2	67					
2.1.20											2	1		1	56					
2.1.21																5	2		3	80
2.1.24	4	2	2		82															
2.1.25						4	2		2	82										
2.1.26	4	2		2	67															
2.1.27											3	1	2		54					
2.1.28																4	1		3	64
2.1.29																4	2	2		64
2.2.2.2						90				90										
2.2.2.3																90				90
2.3.1																180				180

SELECTIVE COMPONENTS																																																							
3.	Subjects Selected by Students (1800 / 60,0)																																																						
3.1	Ukrainian as a foreign language		3g,5g					8,0	240	102		102		138											3		3		69						3		3		69																151
3.2	Introduction to Computer-Aided Design		3g					4,0	120	51	17		34	69											3	1		2	69																										53
3.3	Fundamentals of Programming		3g					4,0	120	51	17		34	69											3	1		2	69																										53
3.4	Ecodesign		4g					4,0	120	51	17	34		69																3	1	2		69																					515
3.5	BIM-management		4g					4,0	120	51	17		34	69																3	1		2	69																					53
3.6	Airport Buildings and Structures		5g					4,0	120	51	34	17		69																					3	2	1		69																53
3.7	Road Machines and Equipment		5g					4,0	120	51	17		34	69																					3	1		2	69																53
3.8	Constructions of Buildings and Structures		6g					4,0	120	51	17		34	69																										3	1		2	69											53
3.9	Fundamentals of Computer Modeling		6g					4,0	120	51	17		34	69																										3	1		2	69											53
3.10	Fundamentals of Electrical Engineering		7g					4,0	120	51	17		34	69																															3	1		2	69						31
3.11	Metals and Welding in Construction		7g					4,0	120	51	17		34	69																															3	1		2	69						53
3.12	BIM-technologies		7g					4,0	120	51	17		34	69																															3	1		2	69						53
3.13	Reinforced Concrete and Stone Structures		8g					4,0	120	56	28		28	64																																				4	2		2	64	53
3.14	Organization of Construction (Special Course)		8g					4,0	120	56	28	28		64																																				4	2	2		64	53
Number	Total Hours								7200	3048	1197	787	1064	4152	25	9	11	5	475	22	9	8	5	526	25	8	11	6	475	21	9	2	10	543	24	10	8	6	492	21	10		11	543	24	9	2	13	492	21	9	4	8	606	
	Total ECTS Credits							240,0							30,0					30,0					30,0					30,0					30,0					30,0					30,0					30,0					
	Examinations	23													3					3					3					3					3					3					3					2					
	Graded Tests		35												5					5					4					4					4					4					5					4					
	Term Papers					3																			1										1										1										
	Course Projects						3																							1										1										1					

Optional Disciplines (by additional contract):

1	Foreign Language for Professional Purpose		3g,4g, 5g,6g, 7g,8g					18,0	540	198		198		342											2		2		56	2		2		56	2		2		56	2		2		56	2		2		56	2		2		62	87
2	Primary Medical Care		2g					3.0	90	34		34		56						2		2		56																															811
3	Modern Ukrainian Language		1g					3,0	90	34		34		56	2		2		56																																				151

Chairman of the Student Council of the Faculty of Architecture, Civil Engineering and Design — K. Anikanova

Dean of the Faculty of Architecture, Civil Engineering and Design — V. Karpov

Guarantor of the Educational and Professional Program — N. Kostyra

Head of the Graduate Department of Computer Technologies of Airport Construction and Reconstruction — O. Lapenko

AGREED

by the Research and Methodological Council

Minutes № 5 of 15.06.2021