National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute"

STUDY PLAN

for the 2017/2018 academic year

(Enrolment 2016)

APPROVED
by first Vice-rector of Igor Sikorsky Kyiv Polytechnic Institute

_____Y. Yakymenko
"____"_____ 2017

Speciality - 131 - Applied mechanics
Specialization - Dynamics and Strength of Machines
for an educational professional program of master's training
Level - Master
Graduation Department - Department of dynamics and strength of machines and strength of materials

Faculty (Institute) - Institute of Mechanical Engineering
Form of study - full-time
Study duration - 1 years 9 months
Qualification - 2145.1 Researcher

Code	Subjects	Department	Amount: Number of credits	Amount: Number of hours	Lectures/ Practical: Total	Lectures: according to curriculum	Lectures: with individual tasks	Practical: according to curriculum	Practical: with individual tasks	Laboratory: according to curriculum	Laboratory: with individual tasks	Individual lessons	Self-study	Control measures: Exams	Final tests	Modular - test works	Course projects	Coursework	personal assignment	home tasks	Pedgoame	Distribution of class hours per week by courses and semesters: 2 Course MP-61m (10+0) 3 semester 18 weeks: Total	Lectures	Practical	Laboratory	4 semester 18 weeks: Total	Lectures	Practical	Laboratory
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
I. GENERAL TRAINING																													
I.1. Basic training (major courses)																													
1	Mathematical Modeling of Systems and Processes	Department of Applied Hydro-Aeromechanics and Mechatronics	4	120	54	36		18					66		3 d							3	2	1					
	total number of part 1.1.		4	120	54	36		18					66		1d							3	2	1					
I.2.Basic training (optional courses)																													
2	Fundamentals of Engineering and Sustainable Technology	Department of Cybernetics of chemical and technological processes	2	60	36	18		18					24		3							2	1	1					
3	Workshop on foreign language scientific communication 2. Workshop on foreign language professional communication	Department of the English Language of Technical Orientation № 2	1,5	45	36			36					9		3							2		2					
	total number of part 1.2.		3,5	105	72	18		54					33		2							4	1	3					
I.2.Basic training (optional courses)																													
4	Scientific work on the topic of master's thesis2. Scientific work on the topic of master's thesis	Department of dynamics and strength of machines and strength of materials	2,5	75	18			18					57		3							1		1					
5	Research Practice	Department of dynamics and strength of machines and strength of materials	7,5	225									225		4d														
6	Writing a Masters Dissertation	Department of dynamics and strength of machines and strength of materials	21	630									630																
	total number of part 1.3.		31	930	18			18					912		1;1d							1		1					
	TOTAL IN GENERAL TRAINING		38,5	1155	144	54		90					1011		3;2d							8	3	5					
II. VOCATIONAL TRAINING																													
II.1. Vocational and practical training (major courses)																													
7	Mathematical optimization methods	Department of Mathematical methods of system analysis	5	150	54	36		18					96	3								3	2	1					
8	Mechatronics 2. Mechatronics System Management	Department of Applied Hydro-Aeromechanics and Mechatronics	4	120	36	18				18			84	3								2	1		1				
	total number of part 2.1.		9	270	90	54		18		18			180	2								5	3	1	1				
II.2. Vocational and practical training (optional courses)																													
9	Strength and destruction of structural elements 2. Mechanics of destruction	Department of dynamics and strength of machines and strength of materials	6	180	54	36				18			126	3								3	2		1				
10	Information systems and technologies in mechanical engineering 2. Information systems of design and engineer analysis	Department of dynamics and strength of machines and strength of materials	4	120	108	36		36		36			12		3d							4	2		2				
11	Information systems and technologies in mechanical engineering 3. Courseworks	Department of dynamics and strength of machines and strength of materials	1	30									30					3											
	total number of part 2.2.		11	330	162	72		36		54			168	1	1d			1				7	4		3				
	TOTAL IN VOCATIONAL TRAINING		20	600	252	126		54		72			348	3	1d			1				#	7	1	4				
	TOTAL		58,5	1755	396	180		144		72			1359	3	3;3d			1				20	10	6	4				
	Number: exams																					3							
	Number: final tests																						3;2d			1d			
	Number: modular, test works																												
	Number: course projects																												
	Number: courseworks																								1				
	Number: personal assignment																												
	Number: home tests																												
	Number: Abstracts																												

PRACTICE

№	Kind of practice	Period	Duration in weeks	Semester
1	Research Practice	from 05.02.2018 to 11.03.2018р.	5	4

Examination of graduates

№	Form of Examination	Period
1	Masters Dissertation Defense	from 21.05.2018 to 31.05.2018

DISTRIBUTION OF HOURS FOR PREPARATION AND DEFENCE OF THE MASTERS DISSERTATION

Type of work	Norm in hours per 1 student	Department	Number students: в	Number students: с	Hours in general: в	Hours in general: с
Supervising	32	Department of dynamics and strength of machines and strength of materials	10		320	
Counseling	2	Department of Applied Mechanics	10		20	
Reviewing	4	Department of Applied Mechanics	10		40	
Examination board	0,5 x 3=1,5	Department of dynamics and strength of machines and strength of materials	10		15	
Hours in general	39,5*	Hours in			395	

*if the head of the board is not from the university - 39.5

Approved at the Meating of the Institute's Academic Counsil No. 8 on 27/03/2017

Head of the Department _____ / Babenko A.

Dean of the Faculty (Director of the Institute) _____ / Bobyr M.

NOTE: compiled for each academic year separately in accordance with the curriculum.