



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

STUDY PLAN

for the 2018/2019 academic year

(Enrolment 2017)

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

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 **Researcher**

Y. Yakymenko

2018

Code	Subjects	Department	Amount		Lectures/ Practical								Self-study	Control measures and their distribution by semester										Distribution of class hours per week by courses and semesters					
			Number of credits	Number of hours	Total	Lectures		Practical		Laboratory		Individual lessons		Exams	Final tests	Modular test works	Course projects	Coursework	personal assignment	home tests	Peperam	3 semester			4 semester				
						according to curriculum with individual classes	with individual classes	according to curriculum with individual classes	with individual classes	according to curriculum with individual classes	with individual classes											18 weeks			18 weeks				
																						Lectures/ Practic			Lectures/ Practica				
																						Lectures	Practical	Laboratory	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								3	2	1				
2	Modern design methods	Department of dynamics and strength of machines and strength of materials	4	120	54	36		18						66		3							3	2	1				
total number of part 1.1.			8	240	108	72		36						132	1	1							6	4	2				
I.2.Basic training (optional courses)																													
3	Workshop on foreign language scientific communication 1. Workshop on foreign language professional communication	Department of the English Language of Technical Orientation № 2	1,5	45	36			36						9		3							2			2			
4	Pedagogy of high school	Department of Psychology and pedagogy	2	60	36	30		6						24		3	3						2	1,7	0,3				
total number of part 1.2.			3,5	105	72	30		42						33		2	1						4	1,7	2,3				
I.3.Science Research (optional courses)																													
5	Scientific work on the topic of master's thesis 3. Scientific work on the topic of master's thesis.	Department of dynamics and strength of machines and strength of materials	3,5	105										105		3													
6	Research Practice	Department of dynamics and strength of machines and strength of materials	9	270										270		4д													
7	Writing a Masters Dissertation	Department of dynamics and strength of machines and strength of materials	21	630										630															
total number of part 1.3.			33,5	1005										1005		1;1д													
TOTAL IN GENERAL TRAINING			45	1350	180	102		78						1170	1	4;1д	1						10	5,7	4,3				

II. VOCATIONAL TRAINING																												
II.1. Vocational and practical training (major courses)																												
8	Special calculation systems	Department of dynamics and strength of machines and strength of materials	6,5	195	72					72	10	62	123	3									4		4			
9	Mechatronics	Department of Applied Hydro-Aeromechanics and Mechatronics	5	150	72	36	5			36	5	62	78	3									4	2	2			
10	Scientific work on the topic of master's thesis. Independent work on the topic of master's thesis	Department of dynamics and strength of machines and strength of materials	3,5	105	54					54	7	47	51										3		3			
total number of part 2.2.			15	450	198	36	5			162	22	171	252	2									11	2	9			
TOTAL IN VOCATIONAL TRAINING			15	450	198	36	5			162	22	171	252	2									11	2	9			
TOTAL			60	1800	378	138	5	78		162	22	171	1422	3	4;1д	1							21	7,7	4,3	9		
			Number of	exams																								
				final tests																								
				modular, test works																								
				course projects																								
				number of courseworks																								
				personal assignment																								
				home tests																								
				Abstracts																								

PRACTICE					Examination of graduates		
№	Kind of practice	Period	Duration in weeks	Semester	№	Form of Examination	Period
1	Research Practice	from 04.02.2019 to 10.03.2019.	5	4	1	Masters Dissertation Defense	from 20.05.2019 to 31.05.2019

DISTRIBUTION OF HOURS FOR PREPARATION AND DEFENCE OF THE MASTERS DISSERTATION							
Type of work	Norm in hours per 1 student	Department	Number students		Hours in general		
			B	C	B	C	
Supervising	32	Department of dynamics and strength of machines and strength of materials	2		64		
Counseling	2	Department of Applied Hydro-Aeromechanics and Mechatronics	2		4		
Reviewing	4	Department of Applied Hydro-Aeromechanics and Mechatronics	2		8		
Examination board	0,5 x4=2	Department of dynamics and strength of machines and strength of materials	2		4		
Hours in	40	Hours in general			80		

Approved at the Meeting of the Institute's Academic Council No. 8 on 23/04/2018

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.