

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

SUMY NATIONAL AGRARIAN UNIVERSITY

"APPROVED"

Rector V. Ladyka



Degree Doctor of philosophy
Studying period 4 years
Previous level Master

STUDYING PLAN 2022-2023

PhD degree in the program subject area 133 "Industrial machinery engineering"
Full-time study

SCHEDULE OF TEACHING PROCESS (May - September admission)

Activities distribution is weeks

Курс	Month																																																				Year	Classes	Exams	Teaching training	Thesis defending	Research	Vacations	Thesis reviewing	Total				
	October				November				December				January				February				March				April				May				June				July				August				September																				
	1	2	3	4	1	2	3	4	1	2	3	4	5	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																				
I	R	R	R	R	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	E	E	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	E	R	R	V	V	V	V	V	R	R	R	R	R	R	R	R	I	25	3			13	7		52
II	R	R	R	R	C	C	C	C	C	C	C	C	C	C	C	C	E	TT	TT	TT	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	II	17	2	3		23	7		52				
III	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	III					45	7		52				
IV	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	V	V	V	V	V	V	V	V	TR	TR	TR	TR	TD	TD	TD	TD	IV				4	30	7	11	52

SCHEDULE OF TEACHING PROCESS (November - April admission)

Activities distribution is weeks

Курс	Month																																																				Year	Classes	Exams	Teaching training	Thesis defending	Research	Vacations	Thesis reviewing	Total				
	May				June				July				August				September				October				November				December				January				February				March				April																				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																					
I	R	C	C	C	C	C	C	C	V	V	V	V	V	V	V	V	V	C	C	C	C	C	C	E	E	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	I	24	2			19	7		52
II	C	C	C	C	E	R	R	V	V	V	V	V	V	V	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	II	17	2	4		22	7		52				
III	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	III					45	7		52				
IV	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TR	TD	TD	TD	TD	IV				4	23	7	18	52				

Abbreviation

- C Classes
- E Exams
- V Vacations
- TT Teaching training
- R Research
- TD Thesis defending
- TR Thesis reviewing

Practical training

Title	Semester	Weeks
Teaching training	4	4

Graduation

Title	Semester
PhD thesis defending	8

CURRICULUM

№		Assessment		Amount of ECTS	Amount of hours														
		Exams	Credits		Total	classes					individual work	Hours per week							
						studying hours	including			1 year		2 year		3 year		4 year			
							lectures	seminars	consultations	1 semester 7 weeks		2 semester 10 weeks	3 semester 6 weeks	4 semester	5 semester	6 semester	7 semester	8 semester	
Mandatory units																			
OK.1	Philosophy of science		2	4	120	40	20	20		80		4							
OK.2	Contemporary computer technologies in science	1		3	90	30	14	16		60	4								
OK.3	Communications in scientific area		2	3	90	30	14	16		60		3							
OK.4	Methodology of conducting scientific researches	2		3	90	30	14	16		60		3							
OK.5	Triotechnics	1		3	90	30	14	16		60	4								
OK.6	Modeling and planning of a scientific experiment in engineering		1	3	90	30	14	16		60	4								
OK.7	Registration of intellectual property rights		1	3	90	30	14	16		60	4								
OK.8	Design and delivery of course unit	2		3	90	30	14	16		60		3							
OK.9	Ukrainian language		1,2	4	120	60		60		60	4	3							
OK.10	Scientific project management	1		3	90	30	14	16		60									
OK.11	English in professional area		1,2	4	120	60		60		60	4	3							
OK.12	Organization of preparation of scientific publications and writing of PhD thesis		2	3	90	30	14	16		60		3							
OK.13	Practice in Teaching		3	3	90	20		20		70				5					
OK.14	Innovative technological solutions in the mechanical engineering	3		3	90							3							
Total by mandatory units				45	1350	450	148	304	0	810	24	25	0	5					
Elective units																			
BK.1	Elective unit 1	3		5	150	48	18	30		102			8						
BK.2	Elective unit 2		3	5	150	48	18	30		102			8						
BK.3	Elective unit 3		3	5	150	48	18	30		102			8						
Total by elective units				15	450	144	54	90	0	306	0	0	24	0					
Total by studying plan				60	1800	594	200	394	0	1116	24	25	24	5			3		

List of elective units

The effectiveness of the use of sensors and controllers when accompanying experimental research
 Scientific and methodological foundations of quality assurance of mechanized agricultural technologies
 Methodology of strengthening effects on working surfaces of machine parts by concentrated energy sources.
 Scientific substantiation of the use of CAD/CAM/CAE systems in agricultural engineering.

Quality management methodology in mechanical engineering
 Digital platforms in engineering research
 Synthesis of rational technological solutions
 Progressive technologies of surface engineering

Programme leader



Head of Postgraduate and Doctoral Programmes Department

