

4. CURRICULUM

№	Title of discipline	Assessment		Amount of ECTS	Amount of hours														
					Total	studying hours	classes			individual work	Hours per week								
		lectures	including				1 year		2 year		3 year		4 year						
			seminars				consultations	1 semester 10 weeks	2 semester 15 weeks		3 semester	4 semester	5 semester	6 semester	7 semester	8 semester			
Exams	Credits																		
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	3								
OK.3	Communications in scientific area		2	3	90	30	14	16		60		2							
OK.4	Methodology of conducting scientific researches	2		3	90	30	14	16		60		2							
OK.5	Tribotechnics	1		3	90	30	14	16		60	3								
OK.6	Modeling and planning scientific experiment		1	3	90	30	14	16		60	3								
OK.7	Registration of intellectual property rights		1	3	90	30	14	16		60	2								
OK.8	Design and delivery of course unit	2		3	90	30	14	16		60		2							
OK.9	Ukrainian language		1,2	4	120	60		60		60	3	2							
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	3	2							
OK.12	Methodology of PhD thesis writing		2	3	90	30	14	16		60		2							
OK.13	Practice in Teaching		6	3	90	30		30		60								3	
Total by mandatory units				42	1260	460	146	314	0	800	21	12					3		
Elective units																			
BK.1	Elective unit 1	2		5	150	46	16	30		104		3							
BK.2	Elective unit 2		2	5	150	46	16	30		104		3							
BK.3	Elective unit 3		2	5	150	46	16	30		104		3							
Total by elective units				15	450	138	48	90	0	312		9							
Total by studying plan				57	1710	598	194	404	0	1112	21	21					3		

List of elective units

- Modeling and optimization of technical systems
- The theory of optimization of complexes and systems of machines
- Fundamentals quality research of technological operations
- Evaluation of the quality of field work in crop production
- Optimal and adaptive systems
- Optimization of machine complexes and systems

Programme leader

Head of Postgraduate and Doctoral Programmes Department
