

COURSE STRUCTURE

2025-11063 Device theory (EN) Master

1						2					
№	Course code	Title	Th	Pr	Ects	№	Course code	Title	Th	Pr	Ects
1	ENG 501	Academic English	0	3+0	6	1	CE 502	The theory of elasticity	2	2+0	6
2	CE 505	Methods for solving scientific and technical problems in construction	2	2+0	6	2	CE 508	Probability theory in construction mechanics	3	1+0	6
3	CE 517	Modern methods of computing devices	2	0+0	4	3	CE 510	The theory of boundary conditions in the calculation of devices	2	2+0	6
4	CE 501	Modern problems of construction	2	0+0	4	4	CE 512	Numerical methods of calculation of devices	2	2+0	6
5	CE 503	History and methodology of construction	2	0+0	2	5	PDG 520	Higher Education Pedagogy	2	0+0	4
6	XXX XXX	[NAE] Non-Area Elective Course II	2	0+0	6	6	PSY 505	Psychology	2	0+0	2
7	XXX XXX	[NAE] Non-Area Elective Course I	1	1+0	2						
Subtotal: 30						Subtotal: 30					

3

№	Course code	Title	Th	Pr	Ects
1	CE 617	Methods of strengthening devices	2	2+0	6
2	CE 633	Fundamentals of the theory of shells	2	2+0	6
3	XXX XXX	[AE] Area Elective Course IV	2	2+0	8
4	XXX XXX	[AE] Area Elective Course III	2	2+0	4
5	XXX XXX	[AE] Area Elective Course V	2	2+0	6

Subtotal: 30

4

№	Course code	Title	Th	Pr	Ects
1	CE 670	Scientific and pedagogical practice	0	0+0	6
2	CE 680	Research Experience	0	0+0	6
3	CE 690	Master's thesis preparation and defense	0	0+0	18

Subtotal: 30

Total ECTS credits: **120**

AE - Area Elective Courses

№	Course code	Title	Th	Pr	Ects
1	CE 629	Basics of designing special purpose devices	2	2+0	6
2	CE 613	Methods of calculation of boards	2	2+0	6
3	CE 621	Modern methods of device design	2	2+0	4
4	CE 625	Application of special programs in the calculation of devices	2	2+0	8
5	CE 627	Basics of inspection and monitoring of buildings and facilities	2	2+0	8
6	CE 623	Mechanics of thin-walled devices: history, diagnostics and restoration	2	2+0	4

NAE - Non-Area Elective Courses

№	Course code	Title	Th	Pr	Ects	
1	PHIL 501	Philosophy	1	1+0	2	
2	MATH 531	Special areas of advanced mathematics	2	0+0	6	

--

--