

CURRICULUM

1st year (2023-2024)

Discipline type	Nr. crt.	Subject	Discipline code	Prerequisites	Sem 1 - 14 weeks					Sem 2 - 14 weeks										
					No hours / week / subject				No hours / sem	Final eval.	K	No hours / week / subject				No hours / sem	Final eval.	K		
					C	S	L	P	SI			C	S	L	P	SI				
DI	1	DF	Mathematical Analysis 1	CE101	2	1			58	E	4									
	2	DF	Algebra and Geometry 1	CE102	2	2			44	E	4									
	3	DD	Mechanics 1	CE103	2	1			58	E	4									
	4	DD	Building Materials 1	CE104	1		1		47	E	3									
	5	DF	Descriptive Geometry	CE105	2	2			19	C	3									
	6	DF	Chemistry	CE106	2		1		33	C	3									
	7	DF	Computer Programming and Programming Languages	CE107	2		2		19	Vp	3									
	8	DD	Fundamentals of Structural Design	CE108	2	1			33	E	3									
	9	DC	Physical Training 1	CE109			1		11	Vp	1									
	10	DF	Mathematical Analysis 2	CE110	CE101							2	2			19	E	3		
	11	DF	Algebra and Geometry 2	CE111	CE102							2	1			33	E	3		
	12	DD	Mechanics 2	CE112	CE103							2	1			33	E	3		
	13	DD	Building Materials 2	CE113	CE104							2		2		44	E	4		
	14	DD	Elements of Architecture and Urban Planning	CE114								2	2			19	C	3		
	15	DF	Technical Drawing and Infographics 1	CE115								1	2			8	C	2		
	16	DD	Strength of Materials 1	CE116								3	2			55	E	5		
	17	DC	Physical Training 2	CE117									1			11	Vp	1		
	18	DD	Tehnological Practice	CE118								2sx30h/s = 60h					C	4		
DO	19	DC	Optional 1	CE119			1		36	Vp	2									
	20	DC	Optional 2	CE120									1			36	Vp	2		
DL	21	DC	Aesthetics	CE121		2			22	Vp	2									
	22	DD	Innovative Entrepreneurship Development in Construction	CE122		2			22	Vp	2									
	23	DD	An Introduction to Technical Creativity	CE123								2				22	Vp	2		
	24	DF	Elementary Mathematics 1	CE124		2			22	Vp	2									
	25	DF	Elementary Mathematics 2	CE125								2				22	Vp	2		
	26	DD	Urban Planning and Landscaping	CE126								2				22	Vp	2		
	27	DC	Psychology of Education-Dppd*	CE127		2	2		69	E	5									
	28	DC	Pedagogy I*: - Fundamentals of Pedagogy - Theory and Methodology of the Curriculum	CE128								2	2			69	E	5		
Total hours per week, total topics and credits per semester at DI and DO					15	9	4	0		5	E	30	14	12	2	0	5	E	30	
					28				358	2	C		28				258	2	C	
										3	Vp						2	Vp		

* Psychopedagogical training programme for the certification of competences for the teaching profession.

Opt. 1	English Language 1
	French Language 1
Opt. 2	English Language 2
	French Language 2

DECAN,
 Professor Dorina-Nicolina Isopescu, PhD.Eng

RECTOR,
 Professor Dan CAȘCAVAL, PhD.Eng.

CURRICULUM

2nd year (2024-2025)

Discipline type	Nr.crt.	Subject	Discipline code	Prerequisites	Sem 3 - 14 weeks					Sem 4 - 14 weeks										
					No hours / week / subject					Final eval.	K	No hours / week / subject					Final eval.	K		
					C	S	L	P	SI			C	S	L	P	SI				
DI	1	DD	Structural Statics and Stability 1	CE201		3	2			55	E	5								
	2	DF	Technical Drawing and Infographics 2	CE202		1	3			44	E	4								
	3	DD	Engineering Geology	CE203		1		1		47	E	3								
	4	DF	Physics 1	CE204		1		1		47	C	3								
	5	DD	Strength of Materials 2	CE205	CE116	3	2			80	E	6								
	6	DD	Surveying	CE206		2		2		19	E	3								
	7	DC	General Economics	CE207		1				36	C	2								
	8	DC	Physical Training 3	CE208				1		11	Vp	1								
	9	DF	Physics 2	CE209	CE204								2	2				19	C	3
	10	DD	Structural Statics and Stability 2	CE210	CE201								3		2			55	E	5
	11	DD	Theory of Elasticity and Plasticity	CE211									2	1				33	E	3
	12	DD	Reinforced and Prestressed Concrete 1	CE212									2		1			33	E	3
	13	DD	Civil Buildings	CE213									2			2		19	E	3
	14	DD	Transportation Infrastructure	CE214									1	1				22	C	2
	15	DD	Hydraulics	CE215									1	1				22	C	2
	16	DD	Environmental Engineering	CE216									2			1		33	E	3
	17	DC	Physical Training 4	CE217										1				11	Vp	1
	18	DD	Surveying Practice	CE218													2sx30h/s= 60 h		C	4
DO	19	DF	Optional 3	CE219		2	1			8	Vp	2								
	20	DC	Optional 4	CE220			1			11	Vp	1								
	21	DC	Optional 5	CE221										1			11	Vp	1	
DL	22	DF	Programming Languages for Solving Engineering Problems - Python	CE222								2		2			19	Vp	3	
	23	DF	Technical Drawing and Infographics 3	CE223								1		2			58	C	4	
	24	DC	Pedagogy II*: - Instruction Theory and Methodology - Evaluation Theory and Methodology	CE224		2	2			69	E	5								
	25	DC	Didactics of the Specialized Domain*	CE225								2	2				69	E	5	
	26	DC	Ethics and Integrity	CE226								2	1				8	C	2	
Total hours per week, total topics and credits per semester at DI and DO						14	10	4	0		5	E	30	15	7	3	3	5	E	30
						28			347	2	C	3	Vp	28			247	4	C	2
										3	Vp						2	Vp		

* Psychopedagogical training programme for the certification of competences for the teaching profession.

Opt. 3	Probability Theory and Statistics
	Special Mathematics
Opt. 4	English Language 3
	French Language 3
Opt. 5	English Language 4
	French Language 4

DECAN,
 Professor Dorina-Nicolina Isopescu, PhD.Eng

RECTOR,
 Professor Dan CAȘCAVAL, PhD.Eng.

CURRICULUM

3rd year (2025-2026)

Discipline type	Nr.crt.	Subject	Discipline code	Prerequisites	Sem 5 - 14 weeks					Sem 6 - 14 weeks											
					No hours / week / subject				No hours / sem	Final eval.	K	No hours / week / subject				No hours / sem	Final eval.	K			
					C	S	L	P	SI			C	S	L	P	SI					
DI	1	DD	Steel Construction 1	CE301		2		1		33	E	3									
	2	DD	Construction Management	CE302		2	1			33	C	3									
	3	DD	Structural Dynamics	CE303		2	2			44	E	4									
	4	DD	Numerical Methods in Engineering	CE304		2		1		33	C	3									
	5	DD	Reinforced and Prestressed Concrete 2	CE305	CE212	2			2	69	E	5									
	6	DD	Geotechnics	CE306		3		2		55	E	5									
	7	DS	Civil Constructions	CE307		2			2	69	E	5									
	8	DD	Fundamentals of Fire Safety in Civil Engineering	CE308		2				22	C	2									
	9	DD	Earthquake Engineering	CE309										2	2			19	E	3	
	10	DS	Computer Aided Design	CE310										2		1		8	C	2	
	11	DD	Steel Construction 2	CE311	CE301									2			2	44	E	4	
	12	DD	Foundations	CE312										3			2	30	E	4	
	13	DD	Timber Structures	CE313										2			1	58	E	4	
	14	DS	Technology of Constructions Works 1	CE314										2	1			33	C	3	
	15	DS	Speciality Practice	CE315										4sx30h/s= 120h					C	4	
DO	16	DD	Optional 6	CE316									2	1			33	Vp	3		
	17	DD	Optional 7	CE317									2		1		33	Vp	3		
DL	18	DF	Programming Languages - Matlab	CE318		1		3		19	Vp	3									
	19	DC	Leadership Skills	CE319									1		2		8	Vp	2		
	20	DC	Advanced English Language	CE320			2			22	Vp	2		2			22	Vp	2		
	21	DC	Computer Assisted Training*	CE321		1	1			22	C	2									
	22	DC	Classroom Management*	CE322									1	1			47	C	3		
	23	DC	Practicum in Educational Institutions (2)*	CE323		14sx3h/s = 42h					C	3	12sx3h/s = 36 h					C	2		
	24	DC	Graduation Exam, Level I*	CE324															E	5	
	25	DC	Entrepreneurial Education	CE325										2		1		83	C	5	
Total hours per week, total topics and credits per semester at DI and DO						17	3	4	4		5	E	30	17	4	2	5		4	E	30
						28					3	C		28					258	3	C
											0	Vp							2	Vp	

Opt. 6	Quality Management
	Project Management
Opt. 7	Building Thermotechnics
	Building Physics

* Psychopedagogical training programme for the certification of competences for the teaching profession.

DECAN,
 Professor Dorina-Nicolina Isopescu, PhD.Eng

RECTOR,
 Professor Dan CAȘCAVAL, PhD.Eng.

CURRICULUM

4th year (2026-2027)

Discipline type	Nr.crt.	Subject	Discipline code	Prerequisites	Sem 7 - 14 weeks					Sem 8 - 14 weeks									
					No hours / week / subject				No hours / sem	Final eval.	K	No hours / week / subject				No hours / sem	Final eval.	K	
					C	S	L	P	SI			C	S	L	P	SI			
DI	1	DS	Reinforced Concrete Structures	CE401	3			2	55	E	5								
	2	DS	Steel Structures	CE402	2			2	69	E	5								
	3	DS	Industrial Buildings	CE403	2			2	44	E	4								
	4	DS	Sustainable Constructions	CE404	1	1			22	C	2								
	5	DS	Organization of the Construction Works	CE405	3	2			30	E	4								
	6	DS	Technology of Construction Works 2	CE406	CE314	2	1		58	E	4								
	7	DS	Construction in Rural Zones	CE407								2			1	58	E	4	
	8	DD	Building Services in Constructions	CE408								2	1			33	E	3	
	9	DC	Communication	CE409								1				11	Vp	1	
	10	DS	Composite Construction Materials and Elements	CE410								2		1		58	E	4	
DO	11	DS	Optional 8	CE411	2	1			33	C	3								
	12	DS	Optional 9	CE412	2				47	Vp	3								
	13	DS	Optional 10	CE413								2	1			33	E	3	
	14	DS	Optional 11	CE414								2	1			33	E	3	
	15	DS	Optional 12	CE415								2	1			33	C	3	
	16	DS	Optional 13	CE416								2	1			33	Vp	3	
DI	17	DS	Diploma Project Completion	CE417											4	44	C	4	
	18	DS	Diploma Project Practice	CE418								14sx5h/s= 70h					C	2	
	19	DS	Diploma Exam*	CE419													(E)	(10)	
DL	20	DC	Entrepreneurial Education - Innovative Entrepreneurship 1	CE420	1		2		83	C	5								
	21	DC	Entrepreneurial Education - Innovative Entrepreneurship 2	CE421								2			1	33	C	3	
	22	DC	Bim - Digitization of Construction Projects	CE422	1		1		22	Vp	2								
	23	DC	Smart Cities. Building Concepts and Structures	CE423								1	1			22	Vp	2	
Total hours per week, total topics and credits per semester at DI and DO					17	5	0	6		5	E	30	15	5	1	5	5	E	30
					28				358	2	C		26				336	3	C
									1	Vp						2	Vp		

Opt.8	Masonry Mechanics
	Thermophysical Rehabilitation of Buildings
Opt.9	Precast Structures for Civil and Industrial Buildings
	Advanced Technologies for Construction Works
Opt.10	Durability of Constructions
	High Performance Concrete and Composites

Opt.11	Special Steel Structures
	Cold Formed Structural Steel Members
Opt.12	Building Rehabilitation
	Elements of Non-Linear Computation in Civil Engineering
Opt.13	Foundations in Special Conditions
	Underground Civil Engineering Works

* To support and promote diploma exam are awarded with additional 10 credits.

DECAN,
 Professor Dorina-Nicolina Isopescu, PhD.Eng

RECTOR,
 Professor Dan CAȘCAVAL, PhD.Eng.