

CURRICULUM

1st year (2021-2022)

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](#)

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RECTOR,
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CURRICULUM

2nd year (2022-2023)

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	Statics and Stability of Construction 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	Statics and Stability of Construction 2	CE210	CE201								3	2	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		28			247	4	C	
											3	Vp					2	Vp		

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

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CURRICULUM

3rd year (2023-2024)

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 1	CE314										2	1			33	C	3	
	15	DS	Specialized 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	Management of the Pupils' Classroom*	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](#)

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CURRICULUM

4th year (2024-2025)

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 Constructions 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	CE420		1		2		83	C	5									
	21	DC	Applied Entrepreneurship Education	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		2	Vp
											1	Vp									

Opt.8 [Masonry Mechanics](#)
[Thermophysical Rehabilitation of Buildings](#)

Opt.9 [Precast Structures for Civil and Industrial Buildings](#)
[Advanced Technologies for Construction Work](#)

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.

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