

Technical University "Gheorghe Asachi" of Iasi
 Faculty of Civil Engineering and Building Services
 Domain: Civil engineering
 Programme of study: **Civil Engineering**
 Qualification: Bachelor Engineer
 Standard Period of study: Four years
 Education form: full-time courses
 Duration of study: 2024-2028

TUIASI SENAT Approved
 09. 2024
 President of the Senate
 Professor Iulian-Aurelian Ciocoiu, PhD.

CURRICULUM

1st year (2024-2025)

Discipline type	No	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	1			11	Vp	1		
	18	DD	Technological Practice	CE118								2x30h/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					22	Vp	2									
	22	DD	Innovative Entrepreneurship Development in Civil Engineering	CE122					22	Vp	2									
	23	DD	An Introduction to Technical Creativity	CE123								2				22	Vp	2		
	24	DF	Elementary Mathematics 1	CE124					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	Educational Psychology*	CE127			2	2		69	E	5								
	28	DC	Pedagogy I*: - The Fundamentals of Pedagogy - Curriculum Theory and Methodology	CE128								2	2			69	E	5		
	29	DC	Volunteering 1	CE129					50 h		Vp	1								
	30	DC	Volunteering 2	CE130											50h		Vp	1		
Total hours per week, total topics and credits per semester at DI and DO					15	8	5	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 Andrei Burlacu, PhD.Eng

RECTOR,
 Professor Dan CAȘCAVAL, PhD.Eng.

CURRICULUM

2nd year (2025-2026)

Discipline type	No	Subject	Discipline code	Prerequisites	Sem 3 - 14 weeks					Sem 4 - 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	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 - Assessment Theory and Methodolgy	CE224		2	2			69	E	5										
	25	DC	Didactics of the Specialization*	CE225	CE127 CE 128 CE 224								2	2			69	E	5			
	26	DC	Ethics and Integrity	CE226									2	1			8	C	2			
	27	DC	Volunteering 3	CE227																		
	28	DC	Volunteering 4	CE228																		
	Total hours per week, total topics and credits per semester at DI and DO						14	10	4	0		5 E 2 C 3 Vp	30		15	7	3	3	5 E 4 C 2 Vp	30		
						28					347				50h					247		

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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 (2026-2027)

Discipline type	No	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 Constructions 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 Constructions 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 Construction 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	E	3		
	23	DC	Teaching Practice in Compulsory Pre-university Education	CE323	CE225	14sx3h/s = 42h				33	C	3						
	24	DC	Teaching Practice in Compulsory Pre-university Education	CE324	CE225							12sx3h/s = 36 h			14	C	2	
	25	DC	Entrepreneurial Education	CE325								2		1	83	C	5	
	26	DC	Volunteering 5	CE326		50 h					Vp	1						
	27	DC	Volunteering 6	CE327		50h										Vp	1	
Total hours per week, total topics and credits per semester at DI and DO					17	3	4	4	358	5 E 3 C 0 Vp	30	17	4	2	5	258	4 E 3 C 2 Vp	30

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

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CURRICULUM

4th year (2027-2028)

Discipline type	No	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	Masonry Mechanics	CE404		2		1	33	C	3											
	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	Constructions 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		1	1		22	Vp	2											
	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 - Digitalization of Construction Projects	CE422		1		1	22	Vp	2											
	23	DC	Smart Cities. Building Concepts and Structures	CE423								1	1			22	Vp	2				
	24	DC	Volunteering 7	CE424		50 h					Vp	1										
25	DC	Volunteering 8	CE425		50 h					Vp	1											
Total hours per week, total topics and credits per semester at DI and DO						17	4	0	7		5	E	30	50h		15	5	1	5	5	E	30
						28			358	1	C		26		336	3	C		2	Vp		
										2	Vp											

Opt.8 Construction Sustainability
 Thermophysical Rehabilitation of Buildings

Opt.11 Special Steel Structures
 Cold Formed Structural Steel Members

Opt.9 Precast Structures for Civil and Industrial Buildings
 Advanced Technologies for Construction Works

Opt.12 Building Rehabilitation
 Construction Safety and Risk Management

Opt.10 Durability of Constructions
 High Performance Concrete and Composites

Opt.13 Foundations in Special Conditions
 Underground Civil Engineering Works

Sustainable Constructions

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

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