

Technical University "Gheorghe Asachi" of Iași
 Faculty of Civil Engineering and Building Services
 Domain: Civil engineering
 Specialization: **Civil Engineering**
 Qualification: Bachelor Engineer
 Period of studies: Four years
 Education form: day courses
 Series: 2008-2012

Approved M.E.C.I.,

CURRICULUM

1st year

Type of topic	Nr. crt.	Topics	Code of the topic	Compulsory topics	Semester 1 – 14 weeks.						Semester 2 – 14 weeks.									
					Nr.hrs/week/topic					Final ass.	K	Nr.hrs/week/topic					Final ass.	K		
					C	S	L	P	SI			C	S	L	P	SI				
DI	1.	DF	Mathematical Analysis 1	CE101		2	2			4	E	5								
	2.	DF	Algebra and Geometry 1	CE102		2	2			4	E	5								
	3.	DID	Mechanics 1	CE103		2	1			4	E	4								
	4.	DID	Building Materials 1	CE104		2		2		2	E	4								
	5.	DF	Engineering Graphics	CE105				2		1	Vp	2								
	6.	DF	Chemistry	CE106		1				1	C	2								
	7.	DID	Elements of Architecture and Urban Planning	CE107		2		2		1	C	3								
	8.	DC	Humanistic Sciences (Techniques of Communication)	CE108		2				1	C	2								
	9.	DC	English Language 1	CE109			1			2	Vp	2								
	10.	DC	Physical Training 1	CE110			1				Vp	1								
	11.	DF	Mathematical Analysis 2	CE111	CE101								2	2				1	E	3
	12.	DF	Algebra and Geometry 2	CE112	CE102								2	1				2	E	3
	13.	DID	Mechanics 2	CE113	CE103								2	1				2	E	3
	14.	DID	Building Materials 2	CE114	CE104								2		2			3	E	4
	15.	DF	Computer Usage	CE115									1		2			2	Vp	3
	16.	DF	Physics 1	CE116									2	1				2	C	3
	17.	DID	Strength of Materials 1	CE117									3		2			4	E	5
	18.	DC	English Language 2	CE118										1				2	Vp	2
	19.	DC	Physical Training 2	CE119										1					Vp	1
	20.	DF	Practice in Civil Engineering	CE120									2 sx30 h/s = 60 h						C	3
DL	21.	DC	Aesthetics			2					Vp	2								
	22.	DC	History of Construction Techniques										2						Vp	2
Total hours per week, total topics and credits per semester at DI and DO					13	7	6	0		21	4 E 3 C 3Vp	30	14	7	6	0		19	5 E 2 C 3Vp	30

RECTOR,
Prof.univ.dr.ing. Ion GIURMA

DEAN,
Prof.univ.dr.ing. Nicolae ȚĂRANU

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2nd year

Type of topic	Nr. crt.	Topics	Code of the topic	Compulsory topics	Semester 3 – 14 weeks.						Semester 4 – 14 weeks.								
					Nr.hrs/week/topic					Final ass.	K	Nr.hrs/week/topic					Final ass.	K	
					C	S	L	P	SI			C	S	L	P	SI			
DI	1.	DID	Statics of Constructions 1	CC201		3		2		5	E	6							
	2.	DF	Descriptive Geometry	CC202		2	1			2	E	4							
	3.	DF	Infographics AutoCad	CC203		1		2		2	C	3							
	4.	DF	Physics 2	CC204	CC116	1	1			2	C	3							
	5.	DID	Strength of Materials 2	CC205	CC117	3		2		5	E	6							
	6.	DID	Environmental Engineering	CC206		2		1		2	E	4							
	7.	DC	Economics	CC207		2				1	C	2							
	8.	DC	English Language 3	CC208			1			2	Vp	1							
	9.	DC	Physical Training 3	CC209			1				Vp	1							
	10.	DID	Statics of Constructions 2	CC210	CC201								3		2		5	E	6
	11.	DID	Theory of Elasticity and Plasticity	CC211									2		1		2	E	3
	12.	DID	Reinforced Concrete	CC212									2		1		2	E	3
	13.	DID	Buildings	CC213									2			2	3	E	4
	14.	DID	Engineering Geology	CC214									1		1		2	C	3
	15.	DID	Hydraulics	CC215									2		1		2	C	3
	16.	DID	Surveying	CC216									2		2		1	E	3
	17.	DC	English Language 4	CC217										1			2	Vp	1
	18.	DC	Physical Training 4	CC218										1			2	Vp	2
	19.	DID	Land Surveying Practical Training	CC219									2 sx30 h/s = 60 h				C	3	
DL	20.	DF	Statistics			2	2				Vp	2							
	21.	DID	Programming Languages (JAVA)										1		3			Vp	2
Total hours per week, total topics and credits per semester at DI and DO					14	4	7	0		22	4 E 3 C 2Vp	30	14	2	8	2	20	5 E 3 C 2Vp	30
					25							26							

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3rd year

Type of topic	Nr. crt.	Topics	Code of the topic	Compulsory topics	Semester 5 – 14 weeks.						Semester 6 – 14 weeks.							
					Nr.hrs/week/topic					Final ass.	K	Nr.hrs/week/topic					Final ass.	K
					C	S	L	P	SI			C	S	L	P	SI		
DI	1.	DID	Elements of Steel Structures 1	CE301		2	1	2	E	3								
	2.	DS	Technology of Constructions 1	CE302		2	1	2	C	3								
	3.	DID	Structural Dynamics	CE303		2	2	4	E	5								
	4.	DF	Numerical Methods in Engineering	CE304		2	1	3	C	4								
	5.	DID	Reinforced and Prestressed Concrete	CE305		2		2	4	E	5							
	6.	DID	Geotechnics	CE306		3	1	4	E	5								
	7.	DID	Civil Constructions	CE307		2		2	4	E	5							
	8.	DS	Earthquake Engineering	CE308								2	1		2	E	2	
	9.	DID	Finite Element Analysis	CE309								2	1		2	C	2	
	10.	DID	Elements of Steel Structures 2	CE310	CE301							2		2	3	E	2	
	11.	DS	Technology of Constructions 2	CE311	CE302							2	1		2	E	2	
	12.	DS	Foundations	CE312								3		2	3	E	3	
	13.	DS	Timber Structures	CE313								2		1	3	C	2	
	14.	DID	Economy and Legislation	CE314								2	1		2	C	2	
	15.	DID	Technology and Management Practical Training	CE315								4sx30h/s = 120 h				C	3	
DO	16.	DS	Optional 1	CE316							2	1			Vp	3		
DL	17.	DID	Programming Languages (MATLAB)			1	3		Vp	2								
	18.	DID	Databases								2	1			Vp	2		
	19.	DC	Advanced English Language				2		Vp	2		2			Vp	2		
Total hours per week, total topics and credits per semester at DI and DO					15	0	6	4	23	5 E 2 C 0Vp	30	17	0	5	5	17	4 E 4 C 1Vp	30

Opt.1

Hygrothermics and Acoustics of Buildings
Structural Shapes for Building

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4th year

Type of topic	Nr. crt.	Topics	Code of the topic	Compulsory topics	Semester 7 – 14 weeks.						Semester 8 – 14 weeks.									
					Nr.hrs/week/topic					Final ass.	K	Nr.hrs/week/topic					Final ass.	K		
					C	S	L	P	SI			C	S	L	P	SI				
DI	1.	DS	Reinforced Concrete Structures	CE401		3			2	4	E	5								
	2.	DS	Steel Structures	CE402		2		1		4	E	4								
	3.	DS	Industrial Constructions	CE403		2			2	4	E	5								
	4.	DS	Constructions in Rural Zone	CE404		2		1		3	C	4								
	5.	DID	Management of Constructions Works	CE405		3		2		3	E	5								
	6.	DID	Building Services in Constructions	CE406										2		1		2	E	3
	7.	DS	Elements of Composite Structures	CE407										2		1		2	E	3
DO	8.	DS	Optional 2	CE408		2		1		2	Vp	3								
	9.	DS	Optional 3	CE409		2		0		2	Vp	3								
	10.	DS	Optional 4	CE410									2		1		2	E	3	
	11.	DS	Optional 5	CE411									2		1		2	Vp	3	
	12.	DS	Optional 6	CE412									2		1		2	E	3	
	13.	DS	Optional 7	CE413									2		1		2	Vp	3	
	14.	DID	Optional 8	CE414									2		1		2	Vp	3	
DI	15.	DS	Elaboration and Final Diploma Project Stage	CE415												6	6	C	10	
DL	16.	DID	Programming Languages (FORTRAN)			1		2			Vp	2								
Total hours per week, total topics and credits per semester at DI and DO						16	0	5	4		22	4 E 1 C 2Vp	29	14	0	7	6	20	4 E 1 C 3Vp	31

Opt 2

Building Rehabilitation
Elements of Non-linear Computation in Civil Engineering

Opt.6

Light Steel Structures
Special Steel Structures

Opt 3

Advanced Building Materials
Advanced Building Technologies

Opt.7

Masonry Constructions
Thermo-physical Rehabilitation of Constructions

Opt.4

Durability of Reinforced Concrete Structures
Advanced Solutions in Reinforced Concrete Structures

Opt.8

Transportation Infrastructure
Special Foundations

Opt.5

Quality Management
Project Management

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