

Faculty	Engineering in Foreign Languages
Field	Civil engineering
Specialization	Civil engineering
Study period	4 years
Education form	Civil Engineer Full-time instruction in ENGLISH
Code	U02.07.ICV.IZ.L16

STUDY PROGRAMME

Notations:

- C - course
- S - seminar
- L - laboratory
- P - project
- IS - individual study
- TH - total hours per week
- CR - ECTS credits
- EC – elective course
- E - exam
- Co - colloquy
- P/F - Passed / Failed

Course code:

- 1÷8 – semester number
- DF – fundamental course
- DD – course within the domain
- DC – complementary course
- DS – specialty course
- PP – psycho-pedagogic training course (only in Romanian)
- OB – compulsory course
- OP – elective course (is active only the one selected by the majority of students)
- FC – facultative course (active only if requested by a sufficient number of students)
- 1÷65 – course number

1st Year (2020-2021)**1st Semester – 30 ECTS (14 weeks)**

No.	Name of the course	Course Code	C	S	L	P	IS	TH	CR	Exam form
1	Linear algebra and Analytical geometry	1.DF.OB01	2	2			2	6	5	E
2	Analysis I	1.DF.OB02	2	2			2	6	5	E
3	Descriptive geometry	1.DF.OB03	2	2			2	6	5	E
4	Chemistry	1.DF.OB04	1		1		2	4	4	E
5	Computer science	1.DF.OB05	1		2		2	5	3	Co
6	Surveying	1.DD.OB06	2		1		2	5	4	E
7	Humanity course I	1.DC.OB07	1	1				2	1	Co
8	Foreign language I	1.DC.OB08		2				2	1	Co
9	Physical education	1.DC.OB09		1				1		
10	Introduction in Civil Engineering	1.DD.OB10	2	1				3	2	Co
TOTAL Contact hours/week =28			13	11	4	0	12	40	30	5E+4Co
10	Romanian language for foreign students I	1.DC.FC01		2			1	3	2	Co
11	Foreign language-supplement I	1.DC.FC02		2			1	3	2	Co
12	Mathematics- supplement I	1.DF.FC03		3			1	4	3	Co
13	Psihologia educatiei	1.PP.FC04	2	2			1	5	5	E

2nd Semester – 30 ECTS (14 weeks + 2 weeks)

1	Differential and with partial derivates equations	2.DF.OB11	2	2			2	6	5	E
2	Analysis II	2.DF.OB12	2	2			2	6	5	E
3	Physics I	2.DF.OB13	2	1	1		2	6	3	Co
4	Mechanics I	2.DD.OB14	2	2			2	6	5	E
5	Civil engineering materials	2.DD.OB15	2		2		2	6	5	E
6	Engineering graphics	2.DF.OB16			2		2	4	2	Co
7	Humanity course II	2.DC.OB17	1	1				2	1	Co
8	Foreign language II	2.DC.OB18		2				2	1	Co
9	Physical education I	2.DC.OB19		2				2	1	P/F
TOTAL Contact hours/week = 28			11	12	5	0	12	40	28	4E+4Co+P/F
10	Surveying practice	2.DD.OB20	2 weeks x 30 hours / week						2	Co
TOTAL Credits									30	4E+5Co+P/F
11	Romanian language for foreign students II	2.DC.FC05		2			1	3	2	Co
12	Culture and civilization II	2.DC.FC06	2				1	3	2	Co
13	Foreign language-supplement II	2.DC.FC07		2			1	3	2	Co
14	Mathematics- supplement II	2.DF.FC08		3			1	4	3	Co
15	Pedagogie I Fundamentele pedagogiei - Teoria si metodologia curriculum-ului	2.PP.FC09	2	1		1	1	5	5	E

2nd Year (2021-2022)**3rd Semester – 30 ECTS (14 weeks)**

No.	Name of the course	Course Code	C	S	L	P	IS	TH	CR	Exam form
1	Physics II	3.DF.OB21	2	1	1		1	5	5	E
2	Computer aid drawing	3.DF.OB22	2		2		2	6	5	Co
3	Mechanics II	3.DD.OB23	3	3			2	8	6	E
4	Strength of materials I	3.DD.OB24	3	1	1		3	8	6	E
5	Engineering geology	3.DD.OB25	2		1		2	5	5	E
6 (ECI)	Architecture	3.DD.OP01	2				2	4	2	Co
	Urban planning	3.DD.OP02								
7	Foreign language III	3.DC.OB26		2				2	1	Co
8	Physical education	3.DC.OB27		2				2		
TOTAL Contact hours/week = 28			14	9	5	0	12	40	30	4E+3Co
9	Romanian language for foreign students III	3.DC.FC10.		2			1	3	2	Co
10	Construction history I	3.DC.FC11	2				1	3	2	Co
11	Pedagogie II: - Teoria si metodologia instruirii - Teoria si metodologia evaluarii	3.PP.FC12	2	1		1	1	5	5	E

4th Semester – 30 ECTS (14 weeks)

1	Structural analysis I	4.DD.OB28	3	2			3	8	6	E
2	Hydraulics	4.DD.OB29	2		2		3	7	6	E
3	Strength of materials II	4.DD.OB30	3	2	1		2	8	6	E
4	Reinforced concrete I	4.DD.OB31	2		1		2	5	6	E
5	Foreign language IV	4.DC.OB32		2				2	1	Co
6	Physical education II	4.DC.OB33		2				2	1	P/F
7 (EC II)	Environmental engineering	4.DD.OP03	2	1			1	4	2	Co
	Construction machines	4.DD.OP04								
8 (EC III)	Sanitary engineering	4.DD.OP05	2	1			1	4	2	Co
	Enterprise economic and law	4.DD.OP06								
TOTAL Contact hours/week = 28			14	10	4	0	12	40	30	4E+3Co+P/F
9	Romanian language for foreign students IV	4.DC.FC13		2			1	3	2	Co
10	Construction history II	4.DC.FC14	2				1	3	2	Co
11	Didactica specialitatii	4.PP.FC15	2	2			1	5	5	E
12	Energy from renewable resources I (wind, waves, tidal, currents)	4.DD.FC16	2		2		4	8	6	E
13	Energy from renewable resources II (solar, hydrothermal, biomass, osmotic, OTEC)	4.DD.FC17	2		2		4	8	6	E
14	Effects of climate changes	4.DC.FC18	2		2		4	8	6	E
15	Geographic Information Systems and Remote Sensing	4.DD.FC19	2		2		4	8	6	E
16	Pollution / Depollution (water, air, soil)	4.DC.FC20	2		2		4		6	E

3rd Year (2022-2023)

5th Semester – 30 ECTS (14 weeks)

No.	Name of the course	Course Code	C	S	L	P	IS	TH	CR	Exam form
1	Soil mechanics	5.DD.OB33	2		2		2	6	6	E
2	Structural analysis II	5.DD.OB34	2	1	2		3	8	6	E
3	Reinforced concrete II	5.DD.OB35	2		3		2	7	5	E
4	Finite Element Method introduction	5.DD.OB36	2		2		2	6	3	Co
5	Building design I	5.DD.OB37	2		1		2	5	4	E
6	Introduction to Theory of Elasticity, Plates and Shells	5.DD.OB38	1		1		1	3	2	Co
7 (EC IV)	Masonry structures	5.DS.OP07	2		2		1	5	4	E
	Wood structures	5.DS.OP08								
TOTAL Contact hours/week = 27			13	1	13	0	13	40	30	5E+2Co
8	Elasticity and plasticity I	5.DD.FC16	2	1			1	4	3	Co
9	Statistics I	5.DD.FC17	2	1			1	4	3	Co
10	Practica pedagogica	5.PP.FC18				3		3	3	Co

6th Semester – 30 ECTS (14 weeks + 3 weeks)

1	Reinforced concrete structures I	6.DS.OB39	3				2	5	3	E
2	Reinforced concrete structures I – Pr.	6.DS.OB40				2	2	4	2	P
3	Building design II	6.DS.OB41	2				2	4	2	E
4	Building design II – Pr.	6.DS.OB42				2	2	4	2	P
5	Foundation engineering	6.DD.OB43	2				1	3	3	E
6	Foundation engineering – Pr.	6.DD.OB44				2	1	3	2	P
7	Steel structures I	6.DD.OB45	2		2		1	5	4	E
8	Dynamics and Earthquake engineering introduction	6.DD.OB46	3		2		2	7	4	E
9	Computer methods in civil engineering	6.DD.OB47	2		2		1	5	3	Co
TOTAL Contact hours/week = 26			14	0	6	6	14	40	25	5E+3P+1Co
10	Practical stage	6.DD.OB48	3 weeks x 40 hours / week						5	Co
TOTAL Credits									30	5E+3P+2Co
11	Elasticity and plasticity II	6.DD.FC19	2	1			1	4	3	Co
12	Statistics II	6.DD.FC20	2	1			1	4	3	Co
13	Managementul clasei de elevi	6.PP.FC21	1	1			1	3	3	E
14	Practica pedagogica	6.PP.FC22				3		3	2	Co
15	DPPD – Examen absolvire Nivel I	6.PP.FC23							5	E
16	Natural hazards in coastal regions	6.DD.FC24	2		2		4	8	6	E
17	Sustainable Built Environment	6.DD.FC25	2		2		4	8	6	E
18	Performant built facilities for sustainable tourism	6.DD.FC26	2		2		4	8	6	E
19	Sustainable Transport Engineering for Coastal Region	6.DD.FC27	2		2		4	8	6	E
20	Built facilities for aquaculture	6.DD.FC28	2		2		4	8	6	E

4th Year (2023-2024)

7th Semester – 30 ECTS (14 weeks)

No.	Name of the course	Course Code	C	S	L	P	IS	TH	CR	Exam form
1	Steel structures II	7.DS.OB50	3				2	5	4	E
2	Steel structures II - Pr.	7.DS.OB51				3	2	5	3	P
3	Structural reliability and risk analysis	7.DS.OB52	2		2		2	6	5	E
4	Construction engineering I	7.DS.OB53	2		1		1	1	4	E
5	Reinforced concrete structures II	7.DS.OB54	2				2	4	3	E
6	Reinforced concrete structures II - Pr.	7.DS.OB55				2	2	4	3	P
7	Construction management I	7.DD.OB56	2		1		1	4	3	Co
8 (EC V)	Special foundation works	7.DS.OP09	2		2		1	5	3	Co
	Underground works	7.DS.OP10								
9 (EC VI)	Composites and associated materials	7.DS.OP11	2				1	3	2	Co
	Traditional and modern finishing works for buildings	7.DS.OP12								
TOTAL Contact hours/week = 26			15	0	6	5	14	40	30	4E+2P+3Co
10	Marketing	7.DC.FC24	2				1	3	2	Co
11	3D Computer aid drawing	7.DC.FC25		2			1	3	2	Co

8th Semester – 30 ECTS (10 weeks + 4 weeks)

1	Construction engineering II	8.DS.OB57	2		3		1	6	4	E
2	Construction management II	8.DD.OB58	2		2		1	5	4	E
3	Building design III	8.DS.OB59	2				1	3	3	E
4	Building design III - Pr.	8.DS.OB60				3	2	5	2	P
5	Steel structures III	8.DS.OB61	2				1	3	3	E
6	Steel structures III - Pr.	8.DS.OB62				2	2	4	2	P
7 (EC VII)	Diploma Project work (design of a reinforced concrete/steel/masonries/ wood etc. structure)	8.DS.OP13				3	3	6	4	Co
8 (EC VIII)	Equipment for buildings	8.DD.OP14	2		1		1	4	1	Co
	Transport engineering	8.DD.OP15								
9	Building Information Modelling (BIM)	8.DD.OB63	1		2		1	4	2	Co
TOTAL Contact hours/week = 27			11	0	8	8	13	40	25	4E+2P+3Co
10	Diploma Project practical stage	8.DS.OB64	4 weeks x 30 hours / week						5	Co
TOTAL Credits									30	4E+2P+3Co
Diploma Project Defence*)		8.DS.OB65							10	E

*) The total of 240 credits is compulsory for the Diploma Project defence

Dean,
S.I. dr.ing. Daniela TAPUSI

Recteur,
Professeur dr.ing. Radu Sorin Vacareanu