Transilvania University of Braşov, Romania

Study program: Buildings services

Faculty: **Civil Engineering**

Study period: 4 years

2 semesters (14 weeks per semester) Academic year structure:

Examination sessions (two): winter session (January/February)

summer session (June/July)

Courses per years (C= course; S = seminar; L = laboratory; P = project)

courses per years (e= course, s = serminar, e = laboratory, i	- projecti
1 st Year	

No.	Course	Code		1 st Semester 2 nd Sem						mester			
crt.			С	S	L	Р	Cred	С	S	L	Р	Cred	
1	Mathematical analysis	AMP01	4	3			6						
2	Linear algebra, analytical and differential geometry	ALGAD01	2	2			4						
3	Computer programming and programming languages I	PCLP01	1		2		4						
4	Descriptive geometry	GD01	2	1			4						
5	Mechanics I	MECC01	2	2			5						
6	Chemistry	CH01	2		1		3						
7	Scientific writing	SA01	1				2						
	Academic ethics and integrity	EIA01	'										
	Foreign language I - French	LSF01											
8	Foreign language I - English	LSE01	1	1			2						
0	Foreign language I - German	LSG01					2						
	Foreign language I - Spanish	LSS01											
9	Physical education and sport I	EF01		1			1						
10	Environment protection							2	1			4	
11	Physics	FIZ02						2	1	1		5	
12	Topography	TOP02						2		2		5	
13	Engineering drawing and computer graphics I	DTI02								4		4	
14	Strength of materials I	RM02						З	2			5	
15	Materials for installations	MECC02						2	2			5	
	Foreign language II - French	LSF02											
16	Foreign language II - English	LSE02						1	1			2	
10	Foreign language II - German	LSG02						ı	'			2	
	Foreign language II - Spanish	LSS02											
17	Physical education and sport II	EF02							1			1	
18	Practice topography (30 hours/semester)	PT02										2	

2nd Year

No.	Course	Code	3 rd Semester				4 th Semester						
crt	Course		С	S	L	Р	Cred	С	S	L	Р	Cred	
1	Thermotechnics I	TTI03	2	2	2		5						
2	Hydraulics I	HI03	3	1	1		5						
3	Electrotechnics I	EIC03	3	2			5						
4	Socio-human disciplines	DSU03	2	1			3						
5	Special mathematics	MS03	2	1			4						
6	Applied computer science I	IA03	2	3			4						
	Foreign language III – French	LSF03											
7	Foreign language III – English	LSE03	1	1			2						
′	Foreign language III – German	LSG03	'	'				2					
	Foreign language III - Spanish	LSS03											
8	Architectural elements	ARH03	1				2						
0	Elements of urban systematization	AKHUS	'				2						
9	Physical education and sport III	EF03		1			1						
10	Thermotechnics II	TTI04						3	1	1		5	
11	Hydraulics II	HI04						3	1	1		6	
12	Electrotechnics II	EICO4						3	2			4	
	Foreign language IV – French	LSF04											
13	Foreign language IV – English	LSE04							2			2	
13	Foreign language IV – German	LSG04							2			2	
	Foreign language IV – Spanish	LSS04											
14	Civil buildings	CONI04						2				3	
15	Applied computer science II	IA04								4		3	
16	Building thermotechnics	TC04						2	2			3	
16	Elements of physics of constructions	EFC04										3	
17	Physical education and sport IV	EF04							1			1	
18	Practice (90 hours/semester)	PTH04										4	

3rd Year

No.	Course	Code	5 th Semester					6 th Semester						
crt.	Course		С	S	L	Р	Cred	С	S	L	Р	Cred		
1	Hydraulics systems	MAH05	2		1		4							
2	Plumbing installations I	INSA05	3				4							
3	Plumbing installations project	PINSA05				3	2							
4	Heating systems I	ININ05	3				4							
5	Measurements in instalations	MSI05	2	2			5							
6	Heat exchangers	APT05	2			2	5							
7	Heating systems project	PAPT05				2	2							
8	Socio-human disciplines	DSU05	1	1			2							
9	General economy	EG05	1				2							
10	Heating systems II	ININ06						2			2	5		
11	Air conditioning systems I	INVC06						2			2	5		
12	Electrical installations I	INEL06						2			2	5		

13	Refrigeration	INFR06			3		2	4
14	Plumbing installations II	INSA06			2		2	4
15	Cogeneration and energy transport	CTET06			7	7		J
15	Low current installations	ICSD06			3	2		3
16	Practice (90 hours/semester)	PS06						4

4th Year

No.	Course	Code		7 ^t	^h Sem	ieste	r	8 th Semester					
crt.	Course		С	S	L	Р	Cred	С	S	L	Р	Cred	
1	Air conditioning systems I	INVC07	3			3	6						
2	Electrical installations II	INEL07	3			3	6						
3	Natural gas supply systems	SAG07	3			2	4						
4	Automatics I	AICO7	2		2		4						
٦	Hydro-municipal installations	INHI07	,			,	٦						
5	Water management	GA07	2			2	5						
6	Hydronic heating systems	RT07	2			2	5						
7	Automatics II	AI08						2		1		4	
8	Heat pumps	PC08						2		1		4	
9	Technique and fittings of building facilities	TMI08						2		2		4	
10	Building thermotechnics	TC08						_			_	_	
10	Streamline of installations	EIC08						2			2	3	
11	Quality in installations	ACI08						_				_	
11	Reliability and risk in installations	FRI08						2				2	
12	Exploitation and maintenance of installations	El08						2		1		2	
12	Management in buildings and buildings services	MICI08						2		1 2		2	
13	Economic and financial management of enterprises and marketing elements	GEF08						2	1			2	
14	Diploma specialised project	PPD08									4	3	
15	Practice – diploma project completion (90 hours/semester)	PD08										6	