

Transilvania University of Brașov, Romania

Study program: Building services

Faculty:	Civil Engineering
Study period:	4 years (bachelor);
Academic year structure:	2 semesters (14 weeks per semester)
Examination sessions (two):	winter session (January/February) summer session (June/July)

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

1st Year

No. crt.	Course	Code	1 st Semester					2 nd Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Mathematical analysis I	AMP01	2	1			3					
02	Linear Algebra, Analytic and Differential Geometry	ALGAD01	2	2			4					
03	Computer programming	PC01	1		2		4					
04	Descriptive Geometry	GD01	2	2			4					
05	Mechanics	MECI01	2	2			5					
06	Chemistry	CH01	2		1		3					
07	Physics	FIZ01	2	1	1		4					
08	Physical education and sports I	EFZ01		1			1					
09	O1.English Language I O1.German Language I O1.French Language I O1.Spanish Language I	LS01	1	1			2					
10	Mathematical analysis II	AMP02						2	2			4
11	Ecology and environment	ECI02						2	1			4
12	Topography	TOP02						2		2		5
13	Technical drawing I	DTCI02								3		4
14	Strength of the materials	RMI02						3	2			5
15	Materials for installations	MI02						3		2		5
16	O2.English Language II O2.German Language II O2.French Language II O2.Spanish Language II	LS02						1	1			2
17	Physical education and sports II	EFZ02							1			1

2nd Year

No. crt.	Course	Code	3 rd Semester					4 th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Special mathematics	MS03	2	1			5					
02	Thermotechnics I	TTI03	3	1	1		5					
03	Hydraulic services I	HI03	3	1	1		5					
04	Electrotechnics I	EIC03	3	2			5					

05	Infographics I	IGI03	2		3		4				
06	English Language III German Language French Language III Spanish Language III	LS03	1	1			2				
07	Physical education and sports III	EFZ03		1			1				
08	O1.Basics of architecture O1.Earthquake Engineering	ARH03 INGSEI03	1				2				
09	O2.Academic Writing O2.Academic Ethics and Integrity	SAC 03 EIAC 03	1				2				
10	Thermotechnics II	TTI04						3	1	1	6
11	Hydraulic services II	HI04						3	1	1	6
12	Electrotechnics II	EIC04						3	2		6
13	English Language IV German Language IV French Language IV Spanish Language IV	LS04							2		2
14	Civil buildings	CONI04						2		1	3
15	Infographics II	IGI04						2	3		3
16	Physical education and sports IV	EFZ04							1		1
17	Technological practice	PRAC04									4

3rd Year

No. crt.	Course	Code	5 th Semester					6 th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Hydraulics systems	MAH05	2		2		5					
02	Plumbing installations I	INSA05	3			2	5					
03	Heating systems and equipments I	ININ05	3			2	5					
04	Thermal Equipments	APTO5	3			2	5					
05	Computer-Aided Engineering Design	PAC05	1		3		3					
06	General economy	EC05	1				2					
07	O1.Building thermotechnics O1.Elements of Building Physics	TC05 EFC05	2	2			5					
08	Heating systems and equipments II	ININ06						2				3
09	Heating systems and equipments II- Project	PININ06								2	2	
10	Plumbing installations II	INSA06						2				4
11	Plumbing installations II - Project	PINSA06								2	2	
12	Air conditioning systems I	INVCO6						3		3	4	
13	Electrical circuits for buildings I	INEL06						3		3	4	
14	Refrigeration Installations	INFR06						2		2	4	
15	Unconventional sources of energy	SNE 06						2	2			3
16	Technological practice	PRA06										4

4th Year

No. crt.	Course	Code	7 th Semester					8 th Semester				
			C	S	L	P	Cred	C	S	L	P	Cred
01	Air conditioning systems II	INVC07	2				4					
02	Air conditioning systems II - Project	PINVC07				3	2					
03	Electrical circuits for buildings II	INEL07	2				4					
04	Electrical circuits for buildings II - Project	PINEL07				2	2					
05	Natural gas supply systems	SAG07	3			2	4					
06	Building Automation Systems I	AI07	2	2			4					
07	District Heating Systems	RT07	2			2	5					
08	O1. Urban Hydraulic Systems O1. Water Management	INHI07 GA07	2			2	5					
09	Building Automation Systems II	AI08						2	1			4
10	Installation Technology and Assembly	TMI08						2	2			4
11	Management in buildings and buildings services	EI08						2	2			3
12	Bachelor's Thesis Preparation	PPD08										5
13	Diploma Project Practice	PD08										2
14	O2. Heat pumps O2. Installations for Using Unconventional Energy Forms	PC08 IPUFNE08						2		1		4
15	O3. Marketing O3. Management	MAR08 GEF08						1				2
16	O4. Quality in building services O4. Project Management	ACI08 PM08						2	2			3
17	O5. Measurements in Installations O5. Domotics	MSI08 DOM08						2	2			3