Transilvania University of Brașov, Romania

Study program: Civil, Industrial and Agricultural Constructions

Faculty: Civil Engineering
Study period: 4 years
Examinations 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	1st Semester- 14 weeks					2nd Semester- 14 weeks				
			C	S	L	P	Cr	C	S	L	P	Cr
1	Mathematical analysis I	AM01	2	1			4					
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	2			4					
5	Mechanics I	MECC01	2	2			5					
6	Chemistry	CH01	2		1		3					
7	Foreign language I- French	LSF01	1	1			2					
	Foreign language I- English	LSE01										
	Foreign language I- German	LSG01										
	Foreign language I- Spanish	LSS01										
8	Physics	FIZ01	2	1	1		4					
9	Physical education and sport I	EF01		1			1					
10	Mathematical analysis II	AM02						2	2			4
11	Building materials	MC02						3		2		5
12	Topography	TOP02						2		2		4
13	Engineering drawing and computer graphics I	DTI02								3		3
14	Strenght of materials I	RM02						3	2			5
15	Mechanics II	MECC02						2	2			5
15	Foreign language II- French	LSF02						1	1			2
	Foreign language II- English	LSE02										
	Foreign language II- German	LSG02										
	Foreign language II- Spanish	LSS02										
17	Physical education and sport II	EF02							1			1
18	Practice topography(1 week x 30hours/week=30hours)	PT02										2

2nd Year

No Crt.	Course	Code	3rd Semester – 14 weeks					4th Semester – 14 weeks				
			C	S	L	P	Cr	C	S	L	P	Cr
1	Special mathematics	MS03	2	2			4					
2	Strenght of materials II	RM03	3	2			6					
3	Statics and stability of constructions I	SSC03	3	2			6					

4	Buildings hydraulics	HDR03	2	1			4					
5	Engineering drawing and computer graphics II	DTI03			4		4					
6	Building thermotechnics	TERM03	1	1			2					
7	Foreign language III- French	LSF03	1	1			2					
	Foreign language III- English	LSE03										
	Foreign language III- German	LSG03										
	Foreign language III- Spanish	LSS03										
8	Physical education and sport III	EF03		1			1					
9	Academic writing	LSE03						1				2
	Ethics and academic integrity	EIA03										
10	Statics and stability of constructions II	SSC04						3	2	1		6
11	Computer programming and programming languages II	PCLP04						2		2		4
12	Theory of elasticity and plasticity	TEP04						2	1			4
13	Reinforced and prestressed concrete I	BAP04						3	2			5
14	Roads for communications	CC0M04						2			1	4
15	Engineering geology	GEO04						1		1		3
16	Foreign language IV- French	LSF04						1	1			2
	Foreign language IV- English											
	Foreign language IV- German	LSG04										
	Foreign language IV- Spanish	LSS04										
17	Physical education and sport IV	EF04							1			1
18	Technological practice (2 weeks x 30hours/week=60hours)	PTH04										2

3rd Year

No Crt.	Course	Code	5th Semester – 14 weeks					6th Semester – 14 weeks				
			C	S	L	P	Cr	C	S	L	P	Cr
1	Dynamics of structures and seismic engineering	DS05	3	2	1		6					
2	Geotechnical engineering	GT05	3		2		5					
3	Timber construction	CL05	2			2	4					
4	Reinforced and prestressed concrete II	BAP05	2	2			5					
5	Civil buildings I	CC05	2	1			4					
6	Steel constructions I	CMT05	2	2			4					
7	Elements of architecture and systematization	EAS05	1	1			2					
	Urbanism and landscaping	UAT05										
8	Reinforced concrete stuctures	SBA06						3				4
9	Reinforced concrete stuctures - Project	SBAP06									2	2
10	Civil buildings II	CC06						2				3
11	Civil buildings II - Project	CCP06									3	2
12	Steel constructions II	CM06						3				4
13	Steel constructions II- Project	CMP06									3	2
14	Foundations	FD06						3				4
15	Foundations-Project	FDP06									3	2
16	Finite element method	MEF06						2		2		3
17	Technology of constructions works I	TLC06						2	1			2
18	Practice (3 weeks x30hours/week=90hours)	PS06										4

4th Year

No Crt.	Course	Code	7th Semester – 14 weeks					8th Semester – 14 weeks				
			C	S	L	P	Cr	C	S	L	P	Cr
1	Technology of constructions works II	TLC07	2	2			5					
2	Steel structures		3			3	5					
3	Special reinforced concrete structures	SSBA07	2				4					
4	Special reinforced concrete structures - Project	SSBAP07				2	2					
5	Computer aided design	PAC07	2		2		5					
	Modern methods in the analysis and design of structures	MMAPS07										
6	Constructions safety	SGC08	2	1			4					
	The basics of designing structures	BSI08										
7	Civil buildings III	CC07	2			2	5					
8	Industrial buildings	CI08						2			2	4
9	Construction installations	CI08						2	1			3
10	Construction legislation							1				2
11	Organization and management of construction works	OML08						2	2			4
12	Special concretes and composite materials	SM08						1	1			3
	Composite steel-concrete constructions	COB08										
13	Environmental engineering	IM08						1	1			2
	Renewable energy sources	SR08										
14	Constructions in rural areas	CMR08						2	1			3
	Maintenance, repair and consolidation technology	TLRC08										
15	Constructions durability	DRC08						2	1			3
	Constructions sustainability	SC07										
16	Diploma specialised project	EPD08									4	4
17	Practice- diploma project completion (2 weeks x 30hours/week=60hours)	PRD08										2