Transilvania University of Braşov, Romania

Study program: Raiways, Roads and Bridges

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) 3rd Year

No.	Course	Code	5 th Semester					6 th Semester					
crt.	Course		С	S	L	Р	Cred	С	S	L	Р	Cred	
1	Dynamics of structures and seismic engineering	DS05	З	2	1		6						
2	Geotechnics	GT05	3		2		5						
3	Timber bridges	PL05	2	1			4						
4	Reinforced and prestressed concrete II	BAP05	2	2			5						
5	General economy	EG05	1				2						
6	Basics of bridge design	BPP05	2	1			3						
	Structures for bridges	SP05											
7	Hydrology and hygrogeology	HH05	1	1			2						
	Hydraulic	HDR05											
8	Roads I	DRU05	2				3						
9	Roads I - Project	DRUP05				2	2						
10	Reinforced conrete bridges	PBA06						З				4	
11	Reinforced conrete bridges - Project	PBAP06									2	2	
12	Roads II	DRU06						2		2		4	
13	Roads II - Project	DRUP06									2	2	
14	Steel constructions	CMT06						2		2		3	
15	Foundations	FD06						3				4	
16	Foundations - Project	FDP06									3	2	
17	Finite element method	MEF06						2		2		3	
18	General course of constructions	CGC06						2				2	
19	Construction machinery and equipment	MIC06						1				2	
20	Practice (90 hours/semester)	PS06										2	

4th Year

No.	Course	Code	7 th Semester					8 th Semester					
crt.	Course		С	S	L	Р	Cred	С	S	L	Р	Cred	
1	Reinforced concrete bridges II	PBA07	3				4						
2	Reinforced concrete bridges II - Project	PBAP07				2	2						
3	Steel bridges I	PM07	2				3						
4	Steel bridges I - Project	PMP07				3	3						
5	Railways I	CF07	2		2		5						
6	Computer aided design	PAC07	,		1		3						
	Railway suprastructures for high velocities	SVM07	2										
7	Tunnels and metropolitan	TM07	2		1		3						
	Underground construction	CS07											
8	Organizing of road, railway and bridge	ORG07	2		2		5						
	construction works												
	The tehnology of road, railway and bridge	TLC07											
	construction works												
9	Environmental engineering	IM07	1	1			2						
	Risk assessment	ER07											
10	Special technologies for railway works	TCF08											
	Special technologies for road works	TD08						2	1			3	
	Special technologies for bridge and tunnel	TP08											
	works												
11	Steel bridges II	PM08						2				3	
12	Steel bridges II - Project	PMP08									2	2	
13	Roads III	DR08						2				2	
14	Roads III - Project	DRP08									2	2	
15	Maintenance and rehabilitation of roads and railways	IDC08						2				2	
	Maintenance and rehabilitation of concrete bridges	IPB08											
	Maintenance and rehabilitation of steel bridges	IPM08											
	Maintenance and rehabilitation of streets	IST08											
16	Railways II	CF08						3				4	
17	Raiways II - Project	CFP08									3	2	
18	Constructions management	MC08						2	2			4	
19	Diploma specialised project	EPD08									4	4	
20	Practice – diploma project completion (60 hours/semester)	PRD08										2	