# Transilvania University of Braşov, Romania

#### **Study program: Traffic and Transport Engineering**

Faculty: Mechanical 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)

#### 1 Year

No.	Course	Code		st <b>1</b>		este	r		2 <sup>nd</sup> Semester				
crt.		Couc	С	S	L	Р	Cred	С	S	L	Р	Cred	
01	Mathematical Analysis	AnaM	3	2			5						
02	Descriptive Geometry	GD	2		2		5						
03	Chemistry	Chim	2		1		4						
04	Materials Science	SM	2		1		3						
05	Materials Technology	TM	2		1		3						
06	Applied Informatics	INFA	2		2		5						
07	Linear Algebra and Analytical and Differential	AGAD						2	3			5	
	Geometry	716715						_	)				
80	Technical Drawing and Infographics I	DT1						2		2		5	
09	Physics	Fizi						2		1		4	
10	Mechanics I	Mec1						3	1	1		5	
11	Computers Programming and Programming Languages	PCLP						2		2		5	
12	Electrical Engineering and Electrical Machines	ELME						2		1		4	
12	(O1) Academic Writing and Communication	COM	1	1			3						
13	(O2) Academic Ethics and Integrity	EIA	1	1			3						
	Foreign Language - English	LE01/LE02											
14	Foreign Language - French	LF01/LF02	1	1			2	1	1			2	
14	Foreign Language - German	LG01/LG02											
15	Sport and Physical Training	EF01/EF02		1			1		1			1	

## 2<sup>nd</sup> Year

No.	Course	Code		3 <sup>rd</sup>	Sem	este	r		4 <sup>th</sup>	Sen	neste	r
crt.			С	S	L	Р	Cred	U	S	L	Р	Cred
01	Economics	ECON	1	1			3					
02	Technical Drawing and Infographics II	DT2	2		2		4					
03	Mechanics II	Mec2	3	2	1		6					
04	Strength of Materials I	RM1	2	2	2		6					
05	Special Mathematics and Mathematical Statistics	MSSM	2	2			4					
06	Informatics and Cybernetics in Transports	ICT	2		1		4					
07	Information Theory and Codes	TIC						2		2		3
08	Fluids Mechanics and Hydraulic Machines	MFMH						2		2		4
09	Strength of Materials II	RM2						3	1	1		5
10	Mechanisms	Mecs						3		1	1	5
11	Machine Elements I	OM1						2		1	1	4
12	Management	MANAG						2		1		3
	Foreign Language - English	LE03/LE04						1				
13	Foreign Language - French	LF03/LF04	1	1			2		1			2
	Foreign Language - German	LG03/LG04										
14	Sport and Physical Training	EF03/EF04		1			1		1			1
15	Practical Placement	PT1	90 hours/ year									4

## 3 Year

No.		61-	5 <sup>th</sup> Semester						6 <sup>th</sup> Semester				
crt.	Course	Code	С	S	L	Р	Cred	С	S	L	Р	Cred	
01	Thermodynamics and Thermal Machines	TMT	2	1	2		5						
02	Machine Elements 2	OM2	2		2		5						
03	Machines and Installations for Goods Handling	MIMM	2		1		5						
04	Means of Transports	MT	2		2		5						
05	Internal Combustion Engines	MAI	3		2	1	5						
06	Automotives	AUT	2		2	1	5						
07	Elements of Vehicle Dynamics	EDA						2		2	1	5	
80	Road Infrastructure	IRUT						2			2	4	
09	Transport Control and Command Installations	ICCC						2		2		4	
10	Environment Protection and Engineering	PIM						2		2		4	
11	Road Traffic Management and Telematics I	MTRT1						3		2		5	
12	(O1) Multimodal Transports	TM						1	1			2	
12	(O1) Transport Systems	STR						1	1			2	
13	(O2) Economic Analysis of Transport	AET						1	1			2	
13	(O2) Transport Logistics	LOGT						1	1			2	
14	Practical Placement	PRTH2	90 hours/ year									4	

# 4 Year

No.	Course	Code		7 <sup>th</sup>	Sen	neste	er		8 <sup>th</sup>	8 <sup>th</sup> Semester					
crt.		Code	С	S	L	Р	Cred	С	S	L	Р	Cred			
01	Automotive Electric Systems	EEA	2		2		5								
02	Road Traffic Management and Telematics II	MTRT2	3		2		5								
03	Machines for Road Infrastructure	UIR	2			2	4								
04	CAD in Transport Engineering	PAT						2		2		4			
05	Functional Reliability of Transport Systems	FFST						2		2		4			
06	Fuels, Lubricants and Maintenance Materials for Vehicles	CLMIA						2		2		4			
07	Diploma Project Develop	EPD								4		5			
08	Practice for Diploma Project	PPD						60 hours/semester			5				
09	(O1) Vehicle Fleet Maintenance I	MPV1	2		2	1	6								
	(O1) Vehicles Maintenance and Reliability	FMA			۷	1	3								
10	(O2) Traffic Accidents Analysis and Reconstruction	ARAC	2		2		5								
	(O2) Special Transports	TRS													
11	(O3) Automotive Passive Safety	SPA	2		2		5								
11	(O3) International Transports	TI	2				5								
12	(O4) Quality in Transports	CALT						2		_		3			
12	(O4) Auxiliary systems of Transport Means	SAMT						2		2		5			
	(O5) Vehicle Fleet Maintenance II	MPV2													
13	(O5) Risk Evaluation, Insurance and Vehicles Trade Techniques	ERATCA						2		2		3			
	(O6) Transport Terminals	TT						_	_			_			
14	(O6) Transport Management and Marketing	MKTR						2	2			2			