

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

1st Year

No. crt.	Course	Code	Semester I					Semester II				
			C	S	L	P	Cred	C	S	L	P	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 Geometry	AGAD						2	3			5
08	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
13	(O1) Academic Writing and Communication	COM	1	1			3					
	(O2) Academic Ethics and Integrity	EIA	1	1			3					
14	Foreign Language - English	LE01/LE02										
	Foreign Language - French	LF01/LF02	1	1			2	1	1			2
	Foreign Language - German	LG01/LG02										
15	Sport and Physical Training	EF01 / EF02		1			1		1			1

2nd Year

No. crt.	Course	Code	Semester III					Semester IV				
			C	S	L	P	Cred	C	S	L	P	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
13	Foreign Language - English	LE03/LE04	1	1			2	1	1			2
	Foreign Language - French	LF03/LF04										
	Foreign Language - German	LG03/LG04										
14	Sport and Physical Training	EF03/ EF04		1				1		1		1
15	Practical Placement	PT1	90 hours/ year									4

3rd Year

No. crt.	Course	Code	Semester V					Semester VI					
			C	S	L	P	Cred	C	S	L	P	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	
08	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	
	(O1) Transport Systems	STR						1	1			2	
13	(O2) Economic Analysis of Transport	AET						1	1			2	
	(O2) Transport Logistics	LOGT						1	1			2	
14	Practical Placement	PRTH2	90 hours/ year									4	

4th Year

No. crt.	Course	Code	Semester VII					Semester VIII				
			C	S	L	P	Cred	C	S	L	P	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										
10	(O2) Traffic Accidents Analysis and Reconstruction	ARAC	2		2		5					
	(O2) Special Transports	TRS										

11	(O3) Automotive Passive Safety	SPA	2		2		5					
	(O3) International Transports	TI										
12	(O4) Quality in Transports	CALT						2		2		3
	(O4) Auxiliary systems of Transport Means	SAMT										
13	(O5) Vehicle Fleet Maintenance II	MPV2						2		2		3
	(O5) Risk Evaluation, Insurance and Vehicles Trade Techniques	ERATCA										
14	(O6) Transport Terminals	TT						2	2			2
	(O6) Transport Management and Marketing	MKTR										