

UNIVERSITY OF PETROSANI

Faculty: Mechanical and Electrical Engineering

Field: Transport Engineering

 Study program: **Transport Engineering an Traffic**

Engineers - IF, 4 years x 2 sem./year x 14 weeks./sem. x 28 hours/week., 4 weeks. main exam's sessions/sem.

MINISTRY of NATIONAL EDUCATION
STUDY PLAN

valid beginning with academic year 2012 - 2013

No.	FIRST YEAR		Courses code	Semester 1				Semester 2				Prepare hours		Credit points		Ex., C., V.		No. of hours			
	Courses			C	S	L	P	C	S	L	P	Sem.1	Sem.2	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Class	Apl.	Total	
1	Chemistry		2TT1OF01	2		2							1.5		4		E ₁		28	28	56
2	Mathematical Analysis		2TT1OF02	2	2								2		4		E ₁		28	28	56
3	Descriptive Geometry		2TT1OF03	2		2							2		4		C ₁		28	28	56
4	General Economy		2TT1OX04	2	1								1		3		C ₁		28	14	42
5	Materials Science and Engineering		2TT1OD05	3		1							2.5		5		E ₁		42	14	56
6	Mechanics		2TT1OD06	2	1	1							1		4		E ₁		28	28	56
7/8	Optional course OP 11 I, II		2TT1AX07 / 2TT2AX08		2				2				1	1	2	2	C ₁	C ₂	0	56	56
9/10	Computer Programming and Use I, II		2TT1OF9 / 2TT2OF10	1		2		1		2			1	1	4	4	C ₁	E ₂	28	56	84
11	Mechanisms		2TT2OD11					2	1	1					4		E ₂		28	28	56
12	Algebra, Analytical and Differential Geometry		2TT2OF12					2	2						4		E ₂		28	28	56
13	Physics		2TT2OF13					2		2					4		E ₂		28	28	56
14	Technical Drawing		2TT2OF14					1		2					4		C ₂		14	28	42
15	History of Transport		2TT2OX15					2	1						3		C ₂		28	14	42
16	Materials Technology		2TT2OD16					3		2					5		E ₂		42	28	70
	TOTAL hours C, S, L,P/week.			14	6	8	0	13	6	9	0		12	12	30	30	4E+4C	5E+3C	378	406	784
17/18	Sport*		2TT1OX17 / 2TT2OX18		2					2							A/R		0	56	56

No.	SECOND YEAR		Courses code	Semester 3				Semester 4				Prepare hours		Credit points		Ex., C., V.		No. of hours				
	Courses			C	S	L	P	C	S	L	P	Sem.1	Sem.2	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Class	Apl.	Total		
19	Risk Assessment and Transport Insurance		2TT3OS19	2	1								1		3		C ₃		28	14	42	
20	Heat Engineering and Thermal Machines		2TT3OD20	2	1	1							2		5		E ₃		28	28	56	
21	Specials Mathematics		2TT3OF21	2	2								2		4		E ₃		28	28	56	
22	Mechanics of Fluids		2TT3OD22	3		1							2		5		E ₃		42	14	56	
23	Optional course OP 21		2TT3OX23	2	1								1		3		C ₃		28	14	42	
24	Materials Strength		2TT3OD24	3	1	1							2		5		E ₃		42	28	70	
25/26	Infographics (CAD) I, II		2TT3OF25 / 2TT4OF26	1		2		1		2			1	1	3	3	C ₃	C ₄	28	56	84	
27/28	Optional course OP 11 III, IV		2TT3AX27 / 2TT4AX28		2				2				1	1	2	2	C ₃	C ₄	0	56	56	
29	Information Theory and Codes		2TT4OD29					2		1				1.5		3		E ₄		28	14	42
30	Machine Parts		2TT4OD30					2		1	2			2		4		E ₄		28	42	70
31	Transports Legislation		2TT4AS31					2	1					1		3		C ₄		28	14	42
32	Information Processing in Transports		2TT4OD32					2		2				2		5		E ₄		28	28	56
33	Numerical Methods		2TT4OF33					2	1					1.5		4		E ₄		28	14	42
34	Electrotechnical and Electrical Drives		2TT4OD34					2		2	1			2		4		E ₄		28	42	70
35	Practical Training I, 3weeks. x 40 h/week.		2TT4OD35												2		C ₄				120	
	TOTAL hours C, S, L,P/week.			15	8	5	0	13	4	8	3		12	12	30	30	4E+4C	5E+4C	392	392	904	

No.	THIRD YEAR		Courses code	Semester 5				Semester 6				Prepare hours		Credit points		Ex., C., V.		No. of hours		
	Courses			C	S	L	P	C	S	L	P	Sem.1	Sem.2	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Class	Apl.	Total
36	Thermal Engines		2TT5OD36	2	1	2					2		5		E ₅		28	42	70	
37	Electronics and Automation		2TT5OD37	2		1					1		3		C ₅		28	14	42	
38	Means of Transport		2TT5OD38	3		1	1				2		5		E ₅		42	28	70	
39	Machines and Installations for Goods Manipulation		2TT5OD39	3		1	1				2		5		E ₅		42	28	70	
40	System Transport Theory		2TT5OS40	2		1					2		4		C ₅		28	14	42	
41	Economic Analysis of Transports		2TT5OD41	2	1						1		3		C ₅		28	14	42	
42	Auxiliary Systems of Vehicles		2TT5OS42	2	1	1					2		5		E ₅		28	28	56	
43	Vehicles Dynamics		2TT6OS43					2		2		2	3		E ₆		28	28	56	
44	Road Transport Systems		2TT6OS44					3	2	1		2	6		E ₆		42	42	84	
45	Installations for Traffic Control and Management		2TT6OD45					2		2		2	4		E ₆		28	28	56	
46	Railway Transport Systems		2TT6OS46					3	1	2		2	6		E ₆		42	42	84	
47	Reliability of Transport Means		2TT6OS47					2	2			2	4		C ₆		28	28	56	
48	GIS/GPS Systems		2TT6OS48					2	2			2	5		C ₆		28	28	56	
49	Practical Training II, 3weeks. × 40 h/week.		2TT6OD49										2		C ₆		120			
	TOTAL hours C, S, L,P/week.			16	3	7	2	14	2	8	4	12	12	30	30	4E+3C	4E+3C	420	364	904

No.	FOURTH YEAR		Courses code	Semester 7				Semester 8				Prepare hours		Credit points		Ex., C., V.		No. of hours		
	Courses			C	S	L	P	C	S	L	P	Sem.1	Sem.2	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Class	Apl.	Total
50	Transport Terminals		2TT7OS50	3		1	2					2.5		6		E ₇		42	42	84
51	Special Transportation Systems		2TT7OS51	3		1	1					2.5		5		E ₇		42	28	70
52	Management		2TT7OD52	2	1							2		4		C ₇		28	14	42
53	Traffic Analysis		2TT7OS53	2		2						2		5		E ₇		28	28	56
54	Optional course 41		2TT7OS54	2	1	1						1.5		5		C ₇		28	28	56
55	Optional course OP 42		2TT7AS55	2	1	1						1.5		5		E ₇		28	28	56
56	Multimodal Transport		2TT8OD56					2		1	1		3		E ₈		28	28	56	
57	Environmental Protection in Transport		2TT8OS57					3		1			3		E ₈		42	14	56	
58	Optional course 42		2TT8AS58					2	1	1			3		E ₈		28	28	56	
59	Optional course OP 43		2TT8AS59					2		2			3		E ₈		28	28	56	
60	Elaboration of graduation paper, 14 weeks × 8 h/week.		2TT8OS60								8			10		C ₈		0	112	112
	TOTAL hours C, S, L,P/week.			14	3	6	3	9	1	5	9	12	12	30	30	4E+2C	4E+1C	322	378	700

No.	ANNEX I		Courses code	Sem.	C	S	L	Pct. crd.	Ex., Cv.		Nr. de ore pe disciplina			
	Discipline facultative										Curs	Apl.	Total	
61/62	Sport III, IV*		2TT3LX61 / 2TT4LX62	3, 4	-	-	2	-	-	A/R	A/R	-	56	56
63-66	Foreign Language V,...., VIII		2TT5LX63 / 2TT6LX64 / 2TT7LX65 / 2TT8LX66	5 ... 8	-	2	-	2	2	C ₆	C ₈	-	112	112
67/68	Basics of Experimental Research I, II		2TT5LD67 / 2TT6LD68	5, 6	1	-	1	2	2	C ₅	C ₆	28	28	56
69	Creativity and Inventions		2TT6LD69	6	2	1	-	-	3	-	C ₆	28	14	42
70	Transport Legislation		2TT6LS70	6	2	1	-	-	3	-	C ₆	28	14	42
71	Transport Equipment for Underground		2TT7LS71	7	2	-	2	3	-	C ₇	-	28	28	56
72	Transport Equipment for Mining Industry		2TT8LS72	8	2	-	2	-	3	-	C ₈	28	28	56

ANNEX II		Optional course		
An	Cod	Courses		
I, II	OP 11	English	French	Spanish
II	OP 21	Documentation and Communication Techniques	Logics	
IV	OP 41	Transport Geography	Energy Efficiency in Transport	
IV	OP 42	Maintenance Systems	Diagnostic Techniques	
IV	OP 43	Traffic Accidents Analysis	Operation and Safety of Transport	
IV	OP 44	Transports Logistics	Intelligent Transport systems	

Legend: C – class; S – seminar; L – laboratory; P – project; Ex. (E1...8) – exam in semester 1...8; Cv. (C1...8) – colloquy in semester 1...8

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