

**UNIVERSITY OF PETROȘANI**

Faculty of MECHANICAL AND ELECTRICAL ENGINEERING

Field TRANSPORTS ENGINEERING

Study program *TRANSPORTATION SYSTEMS FOR INDUSTRY, TOURISM AND SERVICES*

MASTER DEGREE - FULL TIME, 120 credits, 2 years x 2 sem./yr x 14 weeks/week x 26 hours/week, 3 weeks exam period/semester

**MINISTRY of NATIONAL EDUCATION**

**CURRICULUM**  
**valid beginning with academic year 2018-2019**

No.	FIRST YEAR	Courses code	Course type	Semester 1				Semester 2				Credit points		Exam type		No. of hours per discipline			Hours for individual study	Total of hours	
				Courses										Sem.1	Sem.2	Sem.1	Sem.2	Class			Apl.
	C			S	L	P	C	S	L	P	Sem.1	Sem.2	Sem.1	Sem.2	Class	Apl.	Total				
1	<i>Mathematical modelling in engineering</i>	2STITSOD01	DD	2	2	-	1	-	-	-	-	6	-	E <sub>1</sub>	-	28	42	70	80	150	
2	Machines and equipment for infrastructure works	2STITSOD02	DD	3	-	2	2	-	-	-	-	7	-	E <sub>1</sub>	-	42	56	98	77	175	
3	Assessment of energy efficiency in transports	2STITSOS03	DS	3	2	2	-	-	-	-	-	6	-	E <sub>1</sub>	-	42	56	98	52	150	
4	<i>Computer aided design and manufacturing</i>	2STITSOD04	DD	2	-	1	1	-	-	-	-	7	-	E <sub>1</sub>	-	28	28	56	119	175	
5	<i>Ethics and academic integrity</i>	2STITSOC05	DC	2	1	-	-	-	-	-	-	4	-	C <sub>1</sub>	-	28	14	42	58	100	
6	Pollution and environmental protection in transport	2STITSOS06	DS	-	-	-	-	3	-	1	2	-	7	-	E <sub>2</sub>	42	42	84	91	175	
7	Organisation, economic and financial diagnosis and development of transport activity	2STITSOD07	DD	-	-	-	-	2	-	2	-	-	6	-	E <sub>2</sub>	28	28	56	94	150	
8	Optional course 11	2STITSXD08	DD	-	-	-	-	2	-	2	-	-	6	-	E <sub>2</sub>	28	28	56	94	150	
9	Optional course 12	2STITSXS09	DS	-	-	-	-	2	-	1	2	-	6	-	E <sub>2</sub>	28	42	70	80	150	
10	Practice	2STITSOD10	DD	-	-	-	-	-	-	7	-	-	5	-	C <sub>2</sub>	0	98	98	27	125	
<b>TOTAL year I</b>				<b>12</b>	<b>5</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>0</b>	<b>13</b>	<b>4</b>	<b>30</b>	<b>30</b>	<b>8E+2C</b>	<b>294</b>	<b>434</b>	<b>728</b>	<b>772</b>	<b>1500</b>		

OPTIONAL COURSES				
No.	Course code	Year of study	Course	
8	OP11	I	Metrology	Standardization and certification in transport
9	OP12	I	Suspended transport systems	Underground transport systems

For 25 hours of individual or class study, one credit point is awarded.

Caption: Code 2 - Faculty: Mechanical and Electrical Engineering; STITS - Transp. Systems for Industry, Tourism and Services; O - mandatory course; X - optional course;

D - domain course; S - specialty course; C - complementary course; 01...19 - course order in curriculum. Didactic activities: C - lecture; S - seminary;

L - laboratory works; P - project; Ex.(E1...4) - examination in semester 1...4; Cv.(C1...4) - verification in semester 1...4.

**Rector,**  
Professor eng.,Ph.D. Sorin Mihai RADU

**Dean,**  
Assoc.Prof.eng.,Ph.D. Iosif DUMITRESCU

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No.	SECOND YEAR		Courses code	Course type	Semester 1				Semester 2				Credit points		Exam type		No. of hours per discipline			Hours for individual study	Total of hours
	Courses				C	S	L	P	C	S	L	P	Sem.1	Sem.2	Sem.1	Sem.2	Class	Apl.	Total		
11	Modeling and simulation of the capacity of special transport systems		2STITSOS11	DS	3	-	1	2	-	-	-	-	5	-	E <sub>3</sub>	-	42	42	84	41	125
12	Traffic modelling		2STITSOS12	DS	2	-	2	-	-	-	-	-	6	-	E <sub>3</sub>	-	28	28	56	94	150
13	Vertical transport systems		2STITSOS13	DS	3	-	1	2	-	-	-	-	7	-	E <sub>3</sub>	-	42	42	84	91	175
14	Transport of dangerous and explosive goods		2STITSOD14	DD	2	-	2	-	-	-	-	-	7	-	E <sub>3</sub>	-	28	28	56	119	175
15	Professional practical training 1		2STITSOS15	DS	-	-	-	6	-	-	-	-	5	-	C <sub>3</sub>	-	-	84	84	41	125
16	Risk assesment in transports		2STITSOD16	DD	-	-	-	-	3	-	1	2	-	8	-	E <sub>4</sub>	42	42	84	116	200
17	Optional Course 21		2STITSXD17	DD	-	-	-	-	2	-	2	-	-	6	-	E <sub>4</sub>	28	28	56	94	150
18	Professional practical training 2		2STITSOS18	DS	-	-	-	-	-	-	-	6	-	6	-	C <sub>4</sub>	-	84	84	66	150
19	Practical training for preparation of dissertation		2STITSOS19	DS	-	-	-	-	-	-	-	10	-	10	-	C <sub>4</sub>	-	140	140	110	250
<b>TOTAL year II</b>					<b>10</b>	<b>0</b>	<b>6</b>	<b>10</b>	<b>5</b>	<b>0</b>	<b>3</b>	<b>18</b>	<b>30</b>	<b>30</b>	<b>6E + 3C</b>	<b>210</b>	<b>518</b>	<b>728</b>	<b>772</b>	<b>1500</b>	
													<b>60</b>								

**For the dissertation presentation 10 extra credit points are awarded.**

**OPTIONAL COURSES**

No.	Course code	Year of study	Course	
17	OP21	II	Mechatronic systems in transportation	Intelligent transportation system

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