

CURRICULUM

Master's degree program in Transport Machinery and Technology

ECTS Subject code T p TMT No

- T – type of course: B for BEng, M for MEng;
- TMT – specialty “Transport Machinery and Technology” in Bulgarian
- p - additional symbol for Plovdiv Branch
- № – number of the subject;

Lectures (L), Tutorials (Tut.), Labs (Lab.), Auditorium Total (AT), Self-Study (SS), Exam (E), Continuous Assessment (CA), Semester Project (SP), Semester Assignment (course work) (SA).

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
SEMESTER I													
1	MpTMT01	Selected Chapters of Mechanics	30	0	30	60	60	120	1				4
2	MpTMT02	Strength of Structures	30	0	30	60	60	120	1				4
3	MpTMT03	Automatic Transmissions in Automotive Machinery	30	0	15	45	105	150	1		1*		5
4	MpTMT04	Modelling and Testing of Transport Machinery	30	0	30	60	90	150		1		1	5
5	MpTMT05	Suspension and Comfort in Automotive Machinery	30	0	15	45	75	120	1		1*		4
6	MpTMT06	Process Control Systems in Internal Combustion Engines	30	0	15	45	75	120	1		1*		4
7	MpTMT07	Elective subject (list № 1)	30	0	15	45	75	120		1	1*		4
Total			210	0	150	360	540	900	5	2	1	1	30
SEMESTER II													
8	MpTMT08	Elective subject (list № 2)	30	0	15	45	45	90	1		1*		3
9	MpTMT09	Elective subject (list №3)	30	0	15	45	45	90	1		1*		3
10	MpTMT10	Elective subject (list № 4)	30	0	15	45	45	90	1		1*		3
11	MpTMT11	Elective subject (list № 5)	30	0	15	45	45	90		1	1*		3
12	MpTMT12	Elective subject (list № 6)	30	0	15	45	45	90		1			3
13	MpTMT13	Diploma project	0	0	0	0	450	450	Defense of diploma thesis			15	
Total			150	0	75	225	675	900	3	2	1	0	30

Notice: * semester projects (SP) in one of the subjects per semester

LIST OF THE OPTIONAL SUBJECTS

List 1		ECTS = 4
1	Modelling of ICE Processes	MpTMT07.1
2	Diagnostics of Internal combustion engine	MpTMT07.2
List 2		ECTS = 3
1	Synthesis of complex planetary gears	MpTMT08.1
2	Vehicle Control and Driving Systems	MpTMT08.2
List 3		ECTS = 3
1	Electric Vehicles	MpTMT09.1
2	Trucks and buses	MpTMT09.2
List 4		ECTS = 3
1	New trends in the development of transport equipment	MpTMT10.1
2	Electric and Forklift trucks	MpTMT10.2
List 5		ECTS = 3
1	Design of Transport Machinery	MpTMT11.1
2	Computational Analysis of Transport Machinery	MpTMT11.2
List 6		ECTS = 3
1	Technical operation of automobiles	MpTMT12.1
2	Modeling and optimization of road transport	MpTMT12.2

LIST OF THE FACULTATIVE SUBJECTS

№	Code	SUBJECT	Semester Load						Assesment				ECTS credits
			L	Tut.	Lab.	AT	SS	Total	E	CA	SP	SA	
SEMESTER I													
1	FaMpTMT01	Automotive hydro and pneumatic systems	30	0	30	60	60	120		1			4
SEMESTER II													
1	FaMpTMT02	Electric Powertrain of Vehicles	30	0	30	60	60	120		1			4

Notice:

1. The lists of elective and facultative subjects are updated annually (yearly) and are adopted by the FC of FME.
2. The schedule of facultative subjects will be announced by the faculty office.