Master's Curriculum Framework in Transport Mechanical Engineering

No.	Course Code		Knowledge Area / Course Title	Total Credits	Credit Breakdown				
					Theory	TH /TN	BTL /TL	TT / Project	Semester
6.1	Letters	Numbers	**General Knowledge**	**5**	**5**	**0**	**0**	0	
	LP	7302	Philosophy	3	3	0	0	0	**1**
	ME	7318	Scientific Research Methods	2	1	0	1	0	**1**
			Foreign Language (*)						
6.2			**Part 2. Foundational Discipline Knowledge**	**14**	**11**	**3**	**0**	**0**	
6.2.1			***Compulsory Courses***	**8**	**5**	**3**	**0**	**0**	
	AT	7330	Applications of Design of Experiments in Transport Mechanical Engineering	2	1	1	0	0	**1**
	ME	7331	System Modeling and Simulation	2	1	0	1	0	**1**
	AT	7332	Applications of the Finite Element Method in Transport Mechanical Engineering	2	1	1	0	0	**1**
	ME	7320	Experimental Design and Analysis	2	1	1	0	0	**1**
6.2.2			***Elective Courses (Select at least 6 credits)***	**6**	**6**	**0**	**0**	**0**	
	AT	7303	Power Sources for Transport Vehicles	2	2	0	0	0	**1**
	AT	7307	Vehicle Emissions and Emission Control	2	2	0	0	0	**1**

	AT	7309	Advanced Powertrain Systems	2	2	0	0	0	**1**
	AT	7333	Noise, Vibration and Harshness (NVH) in Transport Vehicles	2	2	0	0	0	**1**
	AT	7336	Intelligent Transportation Systems	2	2	0	0	0	**1**
	AT	7316	Automotive Signal Processing	2	2	0	0	0	**1**
6.3			**Part 3. Specialized Knowledge**	**23**	**23**	**0**	**0**	**0**	
6.3.1			***Compulsory Courses***	**15**	**15**	**1**	**0**	**0**	
	AT	7334	Vehicle Dynamics	3	3	0	0	0	**2**
	AT	7335	New Energy Technologies for Transport Vehicles	3	3	0	0	0	**2**
	AT	7302	Fault Diagnosis in Engineering Systems	3	3	0	0	0	**2**
	AT	7343	Transport Vehicle Service and Production Management	2	2	0	0	0	**2**
	AT	7338	Experimental Studies of Power Sources for Transport Vehicles	2	1	1	0	0	**2**
	AT	7342	Vehicle Dynamics and Control	2	2	0	0	0	**2**
6.3.2			***Elective Courses***	**8**	**8**	**2**	**0**	**0**	
6.3.2.1			***Elective Group 3.1***	**2**	**1**	**1**	0	0	
			(Select at least 2 credits)	**2**	**1**	**1**	0	0	
	AT	7337	Autonomous and Connected Vehicles	2	1	0	1	0	**2**
	AT	7339	Advanced Electric Vehicle Technology	2	1	0	1	0	**2**
6.3.2.2			***Elective Group 3.2***	2	2	0	0	0	

			(Select at least 2 credits)	2	2	0	0	0	
	AT	7318	Evaluation of Fuel-Saving Technologies for Transport Vehicles	2	2	0	0	0	**2**
	AT	7340	Fuel Cell and Hydrogen Technology	2	2	0	0	0	**2**
6.3.2.3			***Elective Group 3.3***	2	2	0	0	0	
			(Select at least 2 credits)	2	2	0	0	0	
	AT	7341	Vehicle Aerodynamics	2	2	0	0	0	**2**
	AT	7304	Dynamics of Hydraulic and Pneumatic Systems in Vehicles	2	2	0	0	0	**2**
6.3.2.4			***Elective Group 3.4***	2	2	0	0	0	
			(Select at least 2 credits)	2	2	0	0	0	
	AT	7308	Embedded Systems in Automotive Engineering	2	2	0	0	0	**2**
	AT	7373	Battery Systems and Control in Electric Vehicles	2	2	0	0	0	**2**
6.4	AT	7327	**Part 4. Internship**	**9**	**0**	**0**	**0**	**9**	**3**
6.5	AT	7328	**Part 5. Graduation Project**	**9**	**0**	**0**	**0**	**9**	**3**