

MOTIVATION FORM

Mandatory to use

Erasmus Mundus Joint Master Degree

International Master in Electric Vehicle Propulsion and Control

GENERAL INSTRUCTIONS

In order to show your motivation for E-PiCo+, please fill out this mandatory motivation form.

There are **2 parts** that you must fill out. **Failing to use this mandatory form will lead in obtaining a 0 grade on the motivation criterion.**

PART 1 - YOU AND YOUR MOTIVATIONS

This part helps us understand who you are as a person and maybe as a future E-PiCo+ student.

You do not need to address anyone with an introductory phrase such as “To whom it may concern” or “Dear...”

Simply answer each question one by one like in a regular form. There is no need to use connecting words between the answers to each question.

1) Personal introduction (300-500 characters, spaces not included).

- 2) State in short why you want to apply for E-PiCo+ (300-500 characters, spaces not included).

- 3) Develop your strongest qualifications, past experiences and qualities that will help you to succeed in E-PiCo+ (400-700 characters, spaces not included).

- 4) Develop your career plan after getting your master's degree (300-500 characters, spaces not included).

PART 2 - YOUR BACKGROUND

This part comes as an additional tool to your transcripts. It is meant to help us understand your academic background and how it relates to E-PiCo+.

Fill out the tables 1 & 2 following the indications given.

Table 1 - Recall of your studies

Undergraduate degree title (if you also obtained a master, mention it too)	
Mention minor/major or specialization if any	

Table 2 - Links between your curriculum and E-PiCo+

Example on how to fill out the table (the matrix to fill out is on the next 2 pages, in green):

THEME	Key concept	Not covered	Beginner	Intermediate	Advanced	Most relevant course(s) where the concept was covered (list 3 courses max.)
Artificial Intelligence	Knowledge representation	X				N/A
	Machine learning				X	ML201 Supervised learning ML302 Deep learning ML405 Advanced Machine learning
	Symbolic AI		X			SAI101 Introduction to symbolic AI

THEME	Key concept	Not covered	Beginner	Intermediate	Advanced	Most relevant course(s) where the concept was covered (list 3 courses max.)
Linear & Nonlinear Control	Linear systems theory					
	State-space models					
	Digital control					
	Nonlinear systems					
Automatic Control	Control systems					
	Robust control					
	Optimal control					
	Estimation/Observation					
	Machine learning					
	Predictive and adaptive control					
	System dynamics					

THEME	Key concept	Not covered	Beginner	Intermediate	Advanced	Most relevant course(s) where the concept was covered (list 3 courses max.)
Electrical engineering	Power electronics dc/dc converters					
	Power electronics inverters					
	Power electronics rectifiers					
	Electrical machines					
	AC Drive					
	Electric Machines & Drives					
	Modelin and control of electrical machines					
	Renewable energy technologies					
Mathematics	Mathematics for Engineering					
	Dynamical Systems					
	Linear algebra					
	Stability analysis (Lyapunov stability)					
	Nonlinear dynamics					
	Optimisation techniques					
	System identification					

THEME	Key concept	Not covered	Beginner	Intermediate	Advanced	Most relevant course(s) where the concept was covered (list 3 courses max.)
Computer Science	Software					
	Embedded Systems					
	Microcontrollers and microprocessors					
Physics	Mechanics					
	Mechatronics					
	Electromechanical systems					
	Kinematics and Dynamics					
	System modeling					