MOTIVATION FORM FOR JEMARO (MANDATORY)

General Instructions (please read carefully)

In order to show your motivation for JEMARO, 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.**

Use font size 11 or 12.

PART I – You and your motivations

Instructions:

This part helps us understand who you are as a person and maybe as a future JEMARO 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 JEMARO and why you chose a given robotics related research topic to work on during the Research Track (300-500 characters, spaces not included).**

3) Develop your strongest qualifications, past experiences and qualities that will help you to succeed in JEMARO (500-1000 characters, spaces not included).

4) Develop what will be your professional project after getting your master's degree (300-500 characters, spaces not included).

PART II – Your background

Instructions:

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 JEMARO.

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 JEMARO

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

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.)
Artificial Intelligence	Knowledge representation	☐	☐	☐	☐	
	Machine learning	☐	☐	☐	☐	
	Symbolic AI	☐	☐	☐	☐	
Computer Engineering	Digital and embedded systems	☐	☐	☐	☐	
	Object-oriented programming	☐	☐	☐	☐	
	Operating systems	☐	☐	☐	☐	
Control Engineering	Controllers	☐	☐	☐	☐	
	Laplace transform	☐	☐	☐	☐	
	Linear systems	☐	☐	☐	☐	
	Non-linear systems	☐	☐	☐	☐	
	Stability	☐	☐	☐	☐	
Mechanics	Mechanical design methods	☐	☐	☐	☐	
	Theory of mechanism and machines (kinematic and dynamic modelling)	☐	☐	☐	☐	

THEME	Key concept	Not covered	Beginner	Intermediate	Advanced	Most relevant course(s) where the concept was covered (list 3 courses max.)
Mathematics	2D/3D geometry	☐	☐	☐	☐	
	Differential calculus	☐	☐	☐	☐	
	Linear and matrix algebra	☐	☐	☐	☐	
	Logics	☐	☐	☐	☐	
	Numerical methods	☐	☐	☐	☐	
Programming	C/C++	☐	☐	☐	☐	
	MATLAB	☐	☐	☐	☐	
	Python	☐	☐	☐	☐	
Robotics	Industrial robotics	☐	☐	☐	☐	
	Manipulators modelling	☐	☐	☐	☐	
	Mobile robots	☐	☐	☐	☐	
	Robotic control	☐	☐	☐	☐	
	Robotic software programming	☐	☐	☐	☐	