

BRUFACE Admission
MSc Electrical Engineering

1. Fill in the total number of courses followed, the corresponding ECTS credits and grades on a scale from 0 to 20.

	Course	Total number of courses	Total ECTS credits* (60 ECTS = 1 y)	Grades** (scale 0-20 for each of these courses)
Basic Formation	Mathematics			
	Chemistry			
	Physics			
General Engineering	Computer engineering			
	Numerical methods			
	Automation / Control theory			
Electrical Engineering	Analog electronics			
	Digital electronics			
	Electromagnetism			
	Signals and systems			

* 60 ECTS corresponds to 1 year; Recalculate if needed to balance out

** Conversion guidelines (indicative): correspondence between GPA (assumed to be on a 4.0 scale), ECTS grades and 0–20 scale: 4 = A = 16–20/20; 3 = B = 13–15/20; 2 = C = 11–12/20; 1 = D = 8–10/20; E = 10/20.

2. Self-assessment by candidate: select the topics that you are familiar with and indicate your level by giving your mark obtained in the most relevant course, expressed on a 0–20 scale.

	Coverage/Knowledge level:	Known	Unknown	Mark of the corresponding course
Electronics	Semiconductor physics and components			
	Digital electronics (components and circuits)			
	Analog electronics (components and circuits)			
	Sensors, actuators, instrumentation			
E.-M.	Maxwell equations			
	Propagation			
	Antennas and RF electronics			
Mathematics	Algebra			
	Geometry			
	Calculus			
	Probabilities, statistics			
	Numerical analysis and associated programming languages			
Signals system	Continuous-time signal concepts (transforms etc.)			
	Sampling, discrete-time signal concepts			
	Analog and digital modulations			
Control theory	Continuous-time control theory (regulation, stability analysis)			
	Discrete-time control theory			
	Tools from complex analysis for control theory			
Computer	Scripting programming languages			
	Compiled programming languages			
	Computer architecture			
	Networking			