

# Choix UE Parc. EMA Parcours Impact Entrepreneurship



## Component

École Nationale  
Supérieure  
d'Électrotechnique  
d'Électronique  
d'Informatique  
d'Hydraulique  
et des  
Télécommunications

## In brief

> **Ametys Code:** M34HQKKO

## List of courses

	Nature	CM	TD	TP	Crédits
<b>PHYSICS FOR MECHATRONICS</b>	UE				5 credits
Advanced phenomena in electromechanical conversion	Matière				
Introduction to Magnetohydrodynamics	Matière				
Modeling of coupled phenomena	Matière				
<b>NUMERICAL METHODS AND OPTIMISATION</b>	UE				5 credits
Finite element numerical modelling	Matière				
Optimal control	Matière				
Optimised sizing of electrical machines	Matière				
Numerical modelling of machines	Matière				
<b>DESIGN OF ELECTROMECHANICAL SYSTEMS</b>	UE				5 credits
Design elements of static converters	Matière				
Mechanical design of actuators and generators	Matière				
Introduction to CAD	Matière				
Electric Generators	Matière				
<b>ARCHITECTURES OF MECHATRONIC SYSTEMS</b>	UE				5 credits
Multidimensional Systems	Matière				
Electric actuator control strategy	Matière				
TER Electric Actuator Control	Matière				
Electromagnetic compatibility	Matière				
Filtering estimation	Matière				
<b>APPLIED MECHATRONICS</b>	UE				5 credits
TER Advanced Control (EMA)	Matière				
Elastic metamaterials and actuators for space (Universeh)	Matière				
Winding techniques for electrical machines	Matière				
System Monitoring and Diagnostics	Matière				