

Semestre 8 - Mechatronic System (SM)



ECTS
30 credits



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

In brief

- **Ametys Code:** M8FPAGMW
- **Open to exchange students:** Yes

List of courses

	Nature	CM	TD	TP	Crédits
CONTROLLED, NON LINEAR SYSTEMS	UE				5 credits
State space	UE				
Introduction to Non-linear control	UE				
Non-linear control	UE				
Automatic Tutorials	UE				
DIGITAL CONTROL	UE				5 credits
Digital control	UE				
Digital Control Project	UE				
Industrial automation	UE				
Automatic Control Systems Tutorials	UE				
ELECTRICAL SYSTEM ARCHITECTURES AND CONTROLS	UE				5 credits
Electric vehicle motor sizing / CVS-Machines design elements	LV2				
	facultative				
Converter control	UE				
Machine control	UE				
ZOE powertrain project	UE				
ACTUATION MATERIALS	UE				5 credits
Materials	UE				
Smart Electroactive Materials	UE				
Finite element methods	UE				
Lagrangian approach to electromechanical systems	Matière				
ANALYTICAL AND PHYSICAL TOOLS FOR MECHATRONICS	UE				5 credits
System optimization and optimal design	UE				
Optimal design of a rocket nozzle actuator	UE				
Modeling of electromagnetic systems using analytical calculations	UE				
Thermal and Fluid Mechanics	UE				
SOFT AND HUMAN SKILLS	UE				5 credits
Professional Communication and English-Sem.8	Matière				
Second language	Choix				
Espagnol-S8	Matière				
Portugais-S8	Matière				
Chinois-S8	Matière				
Italien-S8	Matière				
Japonais-S8	Matière				
Russe-S8	Matière				
Allemand-S8	Matière				
FLE - S8	Matière				
LSF - S8	Matière				
Sports	Matière				
Careers and Management - Sem.8	Choix				
Leadership	Matière				
Entrepreneurship	Matière				
Citizenship	Matière				
Managership-S8	Matière				

