

## Semestre 8 - Numerical Physics (PN)



ECTS  
30 credits



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

### In brief

- > **Code:** M8FP89Q7
- > **Open to exchange students:** No

## List of courses

	Nature	CM	TD	TP	Crédits
<b>APPLIED MATHEMATICS</b>	UE				5 credits
Advanced linear algebra	UE				
Hilbertian analysis	UE				
Optimisation under constraints	Matière				
<b>PHYSICAL PHENOMENA AND MODELING</b>	UE				5 credits
Electromagnetic radiation and antennas	Matière				
Physical analysis of guiding structures	UE				
Project: Modelling of structures in EM	Matière				
<b>NUMERICAL PROJECTS</b>	UE				
Numerical Project	Matière				
<b>MECATRONICS</b>	UE				5 credits
Materials	UE				
Smart Electroactive Materials	UE				
Modeling of electromagnetic systems using analytical calculations	UE				
Thermal and Fluid Mechanics	UE				
<b>SCIENTIFIC COMPUTING</b>	UE				5 credits
Numerical simulation in optics	UE				
Numerical analysis 2	Matière				
Programming for scientific computing	Matière				
Optimal design of a rocket nozzle actuator	UE				
Finite elements for electromagnetism	Matière				
<b>SOFT AND HUMAN SKILLS</b>	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				