



NUCLEAR ENERGY-FUEL CYCLE

2nd year of Master degree - Fall semester

All students may follow scientific courses from this program.

The exchange offer corresponds to the first half of the academic year, fall semester (from September to March).

A minimum of 18 ECTS (European Credit Transfer and Accumulation System) are required for the learning agreement.

All courses are taught in English.

Please note that courses are place-limited.

For information on the requirements of each course, please check the syllabus on our website.

Courses take place at two campuses:

- PSL - Chimie ParisTech-PSL, located at: 11 Rue Pierre et Marie Curie, 75005 Paris
- INSTN- Institut National des Sciences et Techniques Nucléaires (National Institute for Nuclear Science and Technology) , located at: Route N306, 91400 Saclay ⚠ (Please note that this campus is located on the outskirts of Paris)

FUEL CYCLE PROGRAM			
COURSE		CAMPUS	SEMESTER
• S3-F-W-D-O-RISK - Risk Management	(4 ECTS)	INSTN	Sept - Oct
• S3-C-ENER - PWR Functional Description	(3 ECTS)	INSTN	Sept - Oct
• S3-F-W-NPN- Nuclear Physics, Neutronics Basis	(2 ECTS)	INSTN	Sept - Oct
• S3-C-RP - Radiation Protection	(3 ECTS)	INSTN	Sept - Dec
• S3-C-SAFE- Introduction to Safety / Criticality Safety	(3 ECTS)	INSTN	Nov - Dec
• S3-C-SYS - Nuclear Fuel Cycles / Nuclear Reactor Systems	(3 ECTS)	INSTN	Nov- Dec
• S3-F-SPEC - Actinides electronic structure and spectroscopy	(3 ECTS)	INSTN	Nov - Dec
• S4-C-TRANS - Energy Transition, Flexibility	(2 ECTS)	INSTN	Jan - Feb
• S3-F-CMS - Cooling and Molten salt	(3 ECTS)	PSL	Jan - Feb
• S3-F-FUEL - Fuel : from mine to the reactor	(3 ECTS)	PSL	Jan - Feb
• S3-F-SEPA - Separation and recycling	(4 ECTS)	PSL	Jan - Feb
• S4-F-WAST - Waste Containment Materials	(3 ECTS)	PSL	Jan - Feb
• S4-F-CODE - Process sim and process control	(3 ECTS)	PSL	Feb - March
• S4-F-DISPO - Waste disposal	(3 ECTS)	PSL	Feb - March