

Specialized Master in Nuclear Engineering

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Unique year | MS-NUAP

Compulsory courses

- CHIM-Y600** **Nuclear materials** | Marc SCIBETTA
 ⌚ 3 credits 📅 academic year 🗨 English
 KU Leuven : 2 ECTS - ULiège: 1 ECTS
- ELEC-Y600** **Introduction to nuclear energy** | Geert VAN DEN BRANDEN
 ⌚ 3 credits 📅 academic year 🗨 English
 KULeuven - 3 ECTS
- MECA-Y600** **Nuclear thermal hydraulics** | Yann BARTOSIEWCZ
 ⌚ 5 credits 📅 academic year 🗨 English
 UCLouvain : 5 ECTS
- PHYS-H602** **Introduction to nuclear physics and measurements** | Nicolas PAULY
 ⌚ 3 credits 📅 academic year 🗨 French
 ULB - 3 ECTS
- PHYS-Y601** **Nuclear reactor theory** | Peter BAETEN, Geert VAN DEN BRANDEN and Matthias VANDERHAEGEN
 ⌚ 6 credits 📅 academic year 🗨 English
 KULeuven : 2 ECTS - UGent : 2 ECTS - VUB : 2 ECTS
- PHYS-Y602** **Nuclear fuel cycle** | Christophe BRUGGEMAN and Kevin GOVERS
 ⌚ 3 credits 📅 academic year 🗨 English
 ULiège : 3 ECTS
- PHYS-Y603** **Radiation protection** | Klaus BACHER
 ⌚ 3 credits 📅 academic year 🗨 English
 UGent : 3 ECTS
- PHYS-Y608** **Safety of nuclear power plants** | Greet JANSSENS-MAENHOUT, Pierre-Etienne LABEAU and Matthias VANDERHAEGEN
 ⌚ 5 credits 📅 academic year 🗨 English
 UGent : 3 ECTS - ULB : 2 ECTS

Elective modules

A total of nine credits chosen from the following

- PHYS-Y605** (optional) **Advanced nuclear materials** | Steven Van Dijck
 ⌚ 3 credits 📅 academic year 🗨 English
 KULeuven : 2 ECTS - ULiège : 1 ECTS
- PHYS-Y607** (optional) **Nuclear and radiological risk governance** | Greet JANSSENS-MAENHOUT and Fernand VERMEERSCH
 ⌚ 3 credits 📅 academic year 🗨 English
 UGent : 1 ECTS - UCLouvain : 2 ECTS
- PHYS-Y609** (optional) **Advanced radiation protection/radiation ecology** | Klaus BACHER
 ⌚ 3 credits 📅 academic year 🗨 English
 UGent : 3 ECTS

PHYS-Y610
(optional)

[Advanced courses of the nuclear fuel cycle](#) | Christophe BRUGGEMAN and Kevin GOVERS

3 credits academic year

ULiège : 3 ECTS

PHYS-Y611
(optional)

[Advanced course elective topic](#) | Peter BAETEN

3 credits academic year

VUB : 3 ECTS

PHYS-Y616
(optional)

[Advanced nuclear reactor physics and technology](#) | Hamid Ait ABDERRAHIM

3 credits academic year English

UCLouvain : 3 ECTS

Memory

MEMO-H601

[Master thesis](#)

20 credits academic year English