

# Specialized Master in Nuclear Engineering

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**Unique year** | MS-NUAP

## Compulsory courses

CHIM-Y600	<b>Nuclear materials</b>   Marc SCIBETTA 3 credits academic year English KU Leuven : 2 ECTS - ULiège: 1 ECTS
ELEC-Y600	<b>Introduction to nuclear energy</b> 3 credits academic year English KULeuven - 3 ECTS
MECA-Y600	<b>Nuclear thermal hydraulics</b> 5 credits academic year English UCLouvain : 5 ECTS
PHYS-H602	<b>Introduction to nuclear physics and measurements</b> 3 credits academic year French ULB - 3 ECTS
PHYS-Y601	<b>Nuclear reactor theory</b> 6 credits academic year English KULeuven : 2 ECTS - UGent : 2 ECTS - VUB : 2 ECTS
PHYS-Y602	<b>Nuclear fuel cycle</b> 3 credits academic year English ULiège : 3 ECTS
PHYS-Y603	<b>Radiation protection</b> 3 credits academic year English UGent : 3 ECTS
PHYS-Y608	<b>Safety of nuclear power plants</b> 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)	<b>Advanced nuclear materials</b>   Steven Van Dijck 3 credits academic year English KULeuven : 2 ECTS - ULiège : 1 ECTS
PHYS-Y607 (optional)	<b>Nuclear and radiological risk governance</b>   Greet JANSSENS-MAENHOUT and Fernand VERMEERSCH 3 credits academic year English UGent : 1 ECTS - UCLouvain : 2 ECTS
PHYS-Y609 (optional)	<b>Advanced radiation protection/radiation ecology</b> 3 credits academic year English UGent : 3 ECTS

PHYS-Y610  
(optional)

**Advanced courses of the nuclear fuel cycle**

⌚ 3 credits 📅 academic year

ULiège : 3 ECTS

PHYS-Y611  
(optional)

**Advanced course elective topic**

⌚ 3 credits 📅 academic year

VUB : 3 ECTS

PHYS-Y616  
(optional)

**Advanced nuclear reactor physics and technology**

⌚ 3 credits 📅 academic year 🗨 English

UCLouvain : 3 ECTS

## Memory

MEMO-H601

**Master thesis**

⌚ 20 credits 📅 academic year 🗨 English