

## Block view of the study programme

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### Block 1

Notice : All the lectures are given in English, at the premises of SCK-CEN, the Belgian Nuclear Research Center. The laboratory exercises make use of the nuclear facilities of SCK-CEN. Various technical visits are organised to research and industrial nuclear facilities.

#### Compulsory modules

GENU2000-1	<i>Nuclear energy : introduction</i> (english language) - N... - [10h Vis.]	Q1	20	8	[+]	<b>3</b>
GENU2001-1	<i>Introduction to nuclear physics and measurements</i> (english language) - N...	Q1	24,5	6	-	<b>3</b>
GENU2010-1	<i>Safety of nuclear power plants</i> (english language) - N...	Q1	42	8	-	<b>5</b>
META0030-2	<i>Nuclear materials</i> (english language) - Marc SCIBETTA	Q1	28,5	3	-	<b>3</b>
GENU0030-1	<i>Nuclear fuel cycle</i> (english language) - Christophe BRUGGEMAN, Kevin GOVERS	Q1	26,5	7	-	<b>3</b>
GENU2004-1	<i>Nuclear reactor theory and experiments</i> (english language) - N...	Q2	40	32	-	<b>6</b>
GENU2005-1	<i>Nuclear thermal hydraulics</i> (english language) - N...	Q1	36	28	-	<b>5</b>
GENU2006-1	<i>Radiation protection</i> (english language) - N...	Q1	24	12	-	<b>3</b>
GENU2009-1	<i>Master thesis</i> (english language) - Maarten ARNST	Q2	-	-	-	<b>20</b>

#### Optional courses

Elective modules (9 crédits to be chosen from the list below)

GENU2011-1	<i>Advanced nuclear reactor physics and technology</i> (english language) - N...	Q2	26	8	-	<b>3</b>
GENU2002-1	<i>Advanced nuclear materials</i> (english language) - Marc SCIBETTA	Q2	28,5	3	-	<b>3</b>
GENU2012-1	<i>Advanced radiation protection/radiation ecology</i> (english language) - N...	Q1	20	12	-	<b>3</b>
GENU2013-1	<i>Advanced courses of the nuclear fuel cycle</i> (english language) - Christophe BRUGGEMAN, Kevin GOVERS	Q2	24	6	-	<b>3</b>
GENU2014-1	<i>Nuclear and radiological risk governance</i> (english language) - N...	Q2	18	18	-	<b>3</b>
GENU2003-1	<i>Advanced course elective topic</i> (english language) - COLLÉGIALITÉ	Q2	16	-	-	<b>3</b>