

#### 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 (english language) - N...</i> - [10h Vis.]	Q1	20	8	[+]	<b>3</b>
GENU2001-1	<i>Introduction to nuclear physics and measurements (english language) - N...</i>	Q1	24,5	6	-	<b>3</b>
GENU2010-1	<i>Safety of nuclear power plants (english language) - N...</i>	Q1	42	8	-	<b>5</b>
META0030-2	<i>Nuclear materials (english language) - Marc SCIBETTA</i>	Q1	28,5	3	-	<b>3</b>
GENU0030-1	<i>Nuclear fuel cycle (english language) - Christophe BRUGGEMAN, Hubert DRUENNE</i>	Q1	26,5	7	-	<b>3</b>
GENU2004-1	<i>Nuclear reactor theory and experiments (english language) - N...</i>	Q2	40	32	-	<b>6</b>
GENU2005-1	<i>Nuclear thermal hydraulics (english language) - N...</i>	Q1	36	28	-	<b>5</b>
GENU2006-1	<i>Radiation protection (english language) - N...</i>	Q1	24	12	-	<b>3</b>
GENU2009-1	<i>Master thesis (english language) - N...</i>	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 (english language) - N...</i>	Q2	26	8	-	<b>3</b>
GENU2002-1	<i>Advanced nuclear materials (english language) - Marc SCIBETTA</i>	Q2	28,5	3	-	<b>3</b>
GENU2012-1	<i>Advanced radiation protection/radiation ecology (english language) - N...</i>	Q1	20	12	-	<b>3</b>
GENU2013-1	<i>Advanced courses of the nuclear fuel cycle (english language) - Christophe BRUGGEMAN, Hubert DRUENNE</i>	Q2	24	6	-	<b>3</b>
GENU2014-1	<i>Nuclear and radiological risk governance (english language) - N...</i>	Q2	18	18	-	<b>3</b>
GENU2003-1	<i>Advanced course elective topic (english language) - COLLÉGIALITÉ</i>	Q2	16	-	-	<b>3</b>