

#### 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, Hubert DRUENNE | 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) - N...                                      | 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, Hubert DRUENNE | 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> |