

## First year

### FIRST QUADRIMESTER

Prerequisites in Structural engineering : 30 ECTS credits of courses within a minor in Structural Engineering. This program has to receive the preliminary agreement of the Jury.

#### Compulsory courses

GCIV2032-2	<i>Conception et exécution des structures et des ponts</i> - Vincent DE VILLE DE GOYET, JeanMarc FRANSSSEN - [0,5j T. t., 10h Proj.]	Q2	30	10	[+]	3
GCIV2068-1	<i>Constructions en bois</i> - N...		15	15	-	2
GCIV0643-1	<i>Constructions en béton et en maçonnerie</i> - Hervé DEGÉE, Boyan MIHAYLOV - [1j T. t., 10h Proj.]	Q1	30	30	[+]	5
GCIV0644-1	<i>Constructions métalliques et mixtes</i> - JeanFrançois DEMONCEAU, JeanPierre JASPART - [1j T. t., 30h Proj.]	Q2	40	20	[+]	6
GCIV0185-6	<i>Méthodes numériques en génie civil et géologique</i> - N...		50	50	-	8
GCIV2037-1	<i>Mécanique des structures II</i> - Vincent DENOËL, Philippe RIGO - [15h Proj.]	Q1	35	35	[+]	6

The Jury can approved to replace the above courses by courses followed in another institution in the field of structural engineering (structural mechanics, building materials, structural analysis, design of structures,...)

### SECOND QUADRIMESTER

#### Compulsory courses

GCIV0628-1	<i>Design of sustainable constructions</i> (anglais) - JeanPierre JASPART		30	30	-	6
GCIV0629-1	<i>Conceptual design of buildings</i> (anglais) - JeanFrançois DEMONCEAU, JeanMarc FRANSSSEN, JeanPierre JASPART	Q1	30	30	-	6
GCIV0630-1	<i>Conceptual design of bridges</i> (anglais) - Hervé DEGÉE, Vincent DE VILLE DE GOYET		30	30	-	6
LANG2961-1	<i>Local culture and language</i> (anglais) - Julien DUBOIS, Aline KOOLEN		20	5	-	2
GCIV0639-1	<i>Design for renewable energy systems</i> (anglais) - Philippe RIGO	Q1	25	25	-	5
GCIV0640-1	<i>Advanced design of concrete structures</i> (anglais) - Boyan MIHAYLOV		25	25	-	5

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### THIRD QUADRIMESTER

#### Compulsory courses

GCIV0635-1	<i>Advanced design of steel and composite structures</i> (anglais) - JeanFrançois DEMONCEAU	Q2	30	30	-	6
GCIV0636-1	<i>Design for seismic and climate changes</i> (anglais) - JeanFrançois DEMONCEAU	Q2	30	30	-	6
GCIV0637-1	<i>Design for fire and robustness</i> (anglais) - JeanFrançois DEMONCEAU, JeanMarc FRANSSSEN	Q1	30	30	-	6
GCIV0638-1	<i>Business economics and entrepreneurship</i> (anglais) - N...		20	5	-	2
GCIV0632-1	<i>Advanced design of glass structures</i> (anglais) - JeanPierre JASPART		25	25	-	5
GCIV0634-1	<i>Rehabilitation and maintenance of structures</i> (anglais) - Luc COURARD		25	25	-	5

### FOURTH QUADRIMESTER

#### Compulsory courses

ATFE0019-1	<i>Thesis</i> (anglais) - COLLÉGIALITÉ	-	-	-	-	28
MECA0510-1	<i>Introduction to methodology and research</i> (anglais) - COLLÉGIALITÉ	-	-	-	-	2