

Cycle view of the study programme

		B1	Or	Th	Pr	Au	Cr
Compulsory courses (B1 : 55Cr, B2 : 30Cr)							
GCIV0201-2	<i>Concretes and new Materials Technologies</i> - Luc COURARD - [1d FW, 6h Labo., 8h Proj.]	B1	Q1	34	20	[+]	5
GCIV0643-1	<i>Prestressed concrete structures and masonry</i> - Hervé DEGÉE, Boyan MIHAYLOV - [1d FW, 20h Proj.] Corequisite : GCIV0607-2 - Analyse des structures I	B1	Q1	30	30	[+]	5
GCIV0644-1	<i>Metallic and Steel-Concrete composite Structures</i> - JeanFrançois DEMONCEAU, JeanPierre JASPART - [1d FW, 20h Proj.] Corequisite : GCIV0185-7 - Méthodes numériques linéaires en génie civil et géologique GCIV0607-2 - Analyse des structures I	B1	Q2	40	20	[+]	5
GCIV0646-1	<i>Buildings conception and execution</i> - JeanFrançois DEMONCEAU, JeanMarc FRANSSSEN, Boyan MIHAYLOV - [1d FW]	B1	Q2	40	-	[+]	5
GCIV2034-1	<i>Free surface flow</i> - Michel PIROTON - [1d FW, 2h Labo., 10h Proj.]	B1	Q1	30	28	[+]	5
GCIV2035-1	<i>Fluvial hydrodynamics</i> - Benjamin DEWALS - [30h Proj.] Corequisite : GCIV2034-1 - Ecoulements à surface libre GCIV0185-7 - Méthodes numériques linéaires en génie civil et géologique	B1	Q2	30	30	[+]	5
GCIV2036-2	<i>Soils and Rocks mechanics</i> - Frédéric COLLIN - [1d FW, 5h Proj.]	B1	Q1	30	30	[+]	5
GCIV2037-1	<i>Structures analysis</i> - Vincent DENOËL, Philippe RIGO - [15h Proj.]	B1	Q2	35	30	[+]	5
GCIV0185-7	<i>Straight-line Numerical Methods for Civil Engineering and Geology</i> - Laurent DUCHENE, Michel PIROTON - [30h Proj.]	B1	Q1	25	35	[+]	5
GCIV0009-1	<i>Water Constructions in River, Conception and Execution</i> - Sébastien ERPICUM, Philippe RIGO - [1d FW, 2h Labo., 16h Proj.] Corequisite : GCIV2034-1 - Ecoulements à surface libre	B1	Q2	34	24	[+]	5
GCIV2049-1	<i>Geotechnical Structures Conception and Execution</i> - Frédéric COLLIN - [20d Proj.] Corequisite : GCIV2036-2 - Mécanique des sols et des roches GCIV2037-1 - Analyse des structures II	B1	Q2	20	40	[+]	5
ASTG0016-1	<i>Placement</i> - Luc COURARD - [20d FW]	B2	Q2	-	-	[+]	5
ATFE0010-1	<i>Final Work (including an introduction to methodology and research)</i> - COLLÉGIALITÉ - [500h Proj.]	B2	Q2	-	-	[+]	25

Optional courses (B2 : 35Cr)

Choose one of the following courses : (B1 : 5Cr)

GCIV0607-2	<i>Structures Analysis I</i> - JeanMarc FRANSSSEN <i>Notice</i> : this course is compulsory for the students who have not taken it in bachelor	B1	Q1	35	30	-	5
GCIV0165-2	<i>Wood Construction</i> - JeanMarc FRANSSSEN - [15h Proj.] <i>Notice</i> : this course is compulsory for the students who have already taken the course GCIV0607-2 in bachelor	B1	Q1	15	15	[+]	5

Single focus (B2 : 30Cr)

Research Focus (B2 : 30Cr)

GCIV2065-1	<i>Conception and Execution of river regulation works and water network</i> - Benjamin DEWALS, Philippe RIGO - [1d FW, 20h Proj.]	B2	Q1	30	30	[+]	3
GCIV2174-1	(pas organisé en 2015-2016) <i>Road Infrastructure Conception and</i>	B2	Q1	20	10	[+]	3

Execution - [20d FW]

GCIV0642-1	<i>Bridges Conception and Execution</i> - Vincent DE VILLE DE GOYET - [40h Proj.]	B2	Q1	-	40	[+]	3
PRCO0001-1	<i>Integrated project</i> - Frédéric COLLIN, Laurent DUCHENE, Philippe RIGO - [0,5h FW, 100h Proj.]	B2	Q1	-	90	[+]	7
GEST3162-1	(pas organisé en 2015-2016) <i>Principles of management</i> (english language) - Michael GHILISSEN, François PICHAULT, Thierry PIRONET, Didier VAN CAILLIE	B2	Q1	25	25	-	5

Choose courses totalling 9 ECTS from the following : (B2 : 9Cr)

GCIV0645-1	<i>Environmental impacts of constructions</i> (english language) - Frédéric COLLIN, Benjamin DEWALS, JeanPierre JASPART - [10h Proj.]	B2	Q1	30	5	[+]	3
GCIV2063-1	<i>Planning buildings, co-ordination and safety on building sites</i> - Sebastian KREUSCH	B2	Q1	15	15	-	3
GCIV2048-1	<i>Ports and Waterways</i> (english language) - Philippe RIGO - [1d FW, 10h Proj.]	B2	Q1	24	12	[+]	3
GCIV2066-1	<i>Fundamentals of transportation : transport planning</i> (english language) - Mario COOLS	B2	Q1	15	15	-	3
GCIV0133-9	<i>Maintenance, restoration and protection of buildings</i> - Luc COURARD - [1d FW]	B2	Q1	32	8	[+]	3
GCIV0165-2	<i>Wood Construction</i> - JeanMarc FRANSSSEN - [15h Proj.]	B2	Q1	15	15	[+]	3
GCIV2171-1	<i>Non linear finite elements</i> (english language) - [5h Proj.]	B2	Q1	20	15	[+]	3
GCIV2175-1	(pas organisé en 2015-2016) <i>Flood Risk management</i> (english language)	B2	Q1	15	20	-	3
GCIV2176-1	(pas organisé en 2015-2016) <i>Experimental geotechnics</i> (english language) - [15h Labo.]	B2	Q1	15	-	[+]	3
GCIV2050-2	<i>Seismic design</i> - Hervé DEGÉE, JeanFrançois DEMONCEAU, Vincent DENOËL, JeanMarc FRANSSSEN, Michel PIROTON	B2	Q1	30	20	-	3
GCIV2042-2	<i>Fire engineering</i> - Hervé DEGÉE, JeanFrançois DEMONCEAU, Vincent DENOËL, JeanMarc FRANSSSEN, Michel PIROTON	B2	Q1	40	20	-	3
ARCH0079-1	<i>Durable building construction techniques : envelope</i> - Sigrid REITER - [40h Proj.]	B2	Q1	15	30	[+]	3

Programme transitoire à destination des étudiants ayant réussi leur master 1 de "Master en ingénieur civil des constructions, à finalité approfondie" en 2014-2015

Optional courses (B1 : 30Cr)

Single focus (B1 : 30Cr)

Research Focus (B1 : 30Cr)

PRCO0001-1	<i>Integrated project</i> - Frédéric COLLIN, Laurent DUCHENE, Philippe RIGO - [0,5h FW, 100h Proj.]	B1	Q1	-	90	[+]	9
GCIV0645-1	<i>Environmental impacts of constructions</i> (english language) - Frédéric COLLIN, Benjamin DEWALS, JeanPierre JASPART - [10h Proj.]	B1	Q1	30	5	[+]	4
GCIV2063-1	<i>Planning buildings, co-ordination and safety on building sites</i> - Sebastian KREUSCH	B1	Q1	15	15	-	2

ASTG0016-1 *Placement* - Luc COURARD - [20d FW] B1 Q2 - - [+] 3

Choose one option from the following : (B1 : 12Cr)

Civil Engineering Works (B1 : 12Cr)

GCIV2048-1 *Ports and Waterways* (english language) - Philippe RIGO - [1d FW, 10h Proj.] B1 Q1 24 12 [+] 3

GCIV2049-1 *Geotechnical Structures Conception and Execution* - Frédéric COLLIN - [20d Proj.] B1 Q2 20 40 [+] 5

GCIV2050-2 *Seismic design* - Hervé DEGÉE, JeanFrançois DEMONCEAU, Vincent DENOËL, JeanMarc FRANSSEN, Michel PIROTON B1 Q1 30 20 - 4

Building engineering (B1 : 12Cr)

GCIV2042-2 *Fire engineering* - Hervé DEGÉE, JeanFrançois DEMONCEAU, Vincent DENOËL, JeanMarc FRANSSEN, Michel PIROTON B1 Q1 40 20 - 5

GCIV0646-2 *Buildings conception and execution* - JeanFrançois DEMONCEAU, JeanMarc FRANSSEN, Boyan MIHAYLOV - [1d FW] B1 Q2 40 - [+] 3

ARCH0079-1 *Durable building construction techniques : envelope* - Sigrid REITER - [40h Proj.] B1 Q1 15 30 [+] 4

Compulsory courses (B1 : 30Cr)

GCIV2065-1 *Conception and Execution of river regulation works and water network* - Benjamin DEWALS, Philippe RIGO - [1d FW, 20h Proj.] B1 Q1 30 30 [+] 5

GCIV2066-1 *Fundamentals of transportation : transport planning* (english language) - Mario COOLS B1 Q1 15 15 - 2

GCIV0133-9 *Maintenance, restoration and protection of buildings* - Luc COURARD - [1d FW] B1 Q1 32 8 [+] 3

ATFE0010-1 *Final Work (including an introduction to methodology and research)* - COLLÉGIALITÉ - [500h Proj.] B1 Q2 - - [+] 20

Final year trip: visits to works of art (optional)