# Studies Plan

# Génie civil 2023-24

# Block 1

	Courses			Ма	ster	1	Ма	ster	2	Exam Session	Exam	Credit
Language	Code	Section	TeacherSpecia.	lizati	iœn	p	1	е	p			
	Dynamics of s	tructures										
Ε	CIVIL-468	GC	Beyer Lignos	3h	1h					Win	Written	4
	Energy and co	mfort in buildings										
Ε	ENG-445	GC	Licina Sonta	2h	1h					Win	During the semester	4
	Fundamentals of traffic operations and											
	control											
E	CIVIL-457	GC	Geroliminis	2h	1h	1h				Win	During the semester	4
	Geomechanics	6										
Ε	CIVIL-402	GC	Koliji Laloui	2h	2h					Win	Written	4
	Hydropower se	chemes and pumped-s	torage									
E	CIVIL-469	GC	De Cesare Manso	2h	2h					Win	Written	4

#### Block 2

	Courses					Master 2		r 2	Exam Session	Exam	Credit
Languag	e Code	Section	TeacherSpecia	nli <b>z</b> atioen	р	1	е	р			
	Civil engineer	ring laboratory									
E	CIVIL-492	ĞC	Profs divers		5h			5h	Sum Win	During the semester	4
	Civil Enginee	ring teaching unit: Do	octa								
	Manus										
F	CIVIL-475	GC	Baur Corres Sojo Fernandez-Oro Guaita	2h 2h doñez					Win	During the semester	4
	Civil system	project									
E	CIVIL-491	GC	Profs divers		5h			5h	Sum Win	During the semester	4
-	Construction	project									
E	CIVIL-490	ĞĊ	Profs divers		5h			5h	Sum Win	During the semester	4
	ENAC project										
F	PENS-490	GC	Profs divers		4h			4h	Sum Win	During the semester	4
E F	Summer work	shop									
	PENS-491	GČ	Profs divers		40h				Win	During the semester	4
	HSS : Introdu	ction to project									
		SHS							Win		3
	HSS : Project										
	•	SHS							Sum		3

# **Group "Optional courses"**

	Courses	Master 1	r 1 Master 2			Exam Session	Exam	Credit	
Language	e Code	Section	TeacherSpecialization p	1	е	р			
		nposites in engineering	)						
E	structures CIVIL-443	AR	Vassilopoulos 2h 1h				Win	Oral	3
	Advanced des	ign of concrete structu	ires						
Е	CIVIL-414	GC	Fernandez-Ordoñez	1	h	2h	Sum	During the semester	3
	Composites d	esign and innovation							
E	CIVIL-464	GĈ	Molinari Vassilopoulos	2	h 1h		Sum	Oral	3

	Computations	al geomechanics									
E	CIVIL-423	GC	Lecampion	2h	3h				Win	During the semester	5
	Computation	al systems thinking fo	r								
	sustainable e	ng.									
Ē	CIVIL-534	GC	Sonta				2h	1h	Sum	During the semester	4
=	Concrete brid CIVIL-430	lges GC	Muttoni	2h	1h				Win	Oral	3
	Construction	law for engineers I									
=	ENG-470	GC	Di Cicco Mouvet	2h					Win	Written	2
			Müller								
	Construction	law for engineers II									
=	ENG-471	GC	Di Cicco Müller				2h		Sum	Oral	2
		echanics and applicat									
Ē	CIVIL-425	GC	Lecampion Molinari				3h	2h	Sum	Oral	6
	Dam enginee										
<b>=</b>	CIVIL-411	GC	Manso Mouvet	3h					Win	Oral	3
		methodologies in									
_	transportation						٠.	01	_	o .	
Ī	CIVIL-557	GC	Paschalidis Torres				2h	2h	Sum	Oral	4
_		for autonomous vehi					٥.	41-	0	D	_
Ē	CIVIL-459	GC	Alahi				2h	4h	Sum	During the semester	6
_	Energy geost		1 -12				OI:	41.	0	14/-20	
	CIVIL-444	GC	Laloui				2h	ın	Sum	Written	4
Ē	CIVIL-428	geology for geo-energy GC	<b>y</b> Nussbaum				2h	1h	Sum	During the semester	3
	Engineering o	of existing structures								demodier	
Ē	CIVIL-511	GC	Denarié Nussbaumer	3h	1h				Win	Oral	4
	Flood and da	m break waves									
=	CIVIL-515	GC					2h	1h	Sum	Oral	3
	Flow monitor	ing technology in water	er								
	engineering	0 0,									
Ξ	CIVIL-427	GC					2h	1h	Sum	During the semester	3
	Fluvial hydra	ulics and river training	works								
=	CIVIL-410	GC	André Arborino De Cesare	2h	1h				Win	Oral	3
	Geology for a	onstruction and envir									
=	CIVIL-403	GC	Tacher	2h	1h				Win	During the semester	3
	Geothermal re	esource development				_					
	CIVIL-470	GC		2h	1h				Win	Oral	3
=	Impact studie ENG-474	e <b>s</b> GC	Devanthéry Helfer	2h	1h				Win	Oral	3
	ludas!-	allter and reserving the	Schmidt								
Ī	Indoor air qua CIVIL-460	ality and ventilation GC	Licina				2h	2h	Sum	During the semester	4
		r construction and the	•							SEITIESTET	
Ē	environment CIVIL-424	GC	Terzis	2h		1h			Win	During the	3
	Moshins Is	don for positivities	ntana							semester	
		ning for predictive mai	ntenance								
Ē	applications CIVIL-426	GC	Fink	2h	2h				Win	During the semester	4
	Materials and	structures								331103101	
=	CIVIL-532	GC modelling of behavior	Denarié r	2h	1h				Win	Oral	3
Ξ	MATH-463	MA	Bierlaire	2h	2h				Win	Written	5
	1711 111 1100		210.1GHO	411					*****	**********	

	Nonlinear and	alysis of structures									
E	CIVIL-449	GC	Beyer Lignos Saloustros	3h	2h				Win	Written	6
	Optional inte CIVIL-493	rdisciplinary project GC	Profs			4h		4h	Sum	During the	4
	Programming	g concepts in scientific	divers						Win	semester	
_	computing										
Ξ	MATH-458	MA	Anciaux	2h	2h				Win	During the semester	4
F	Project mana MGT-427	gement and risk analy MTE	<b>sis</b> <i>Wieser</i>	2h		1h			Win	During the	4
										semester	
E	CIVIL-510	imaging for engineers GC	Andò	2h	1h				Win	During the	3
	Reinforced co	oncrete structures - ad	vanced							semester	
	topics	onorete structures - uu	varioca								
E	CIVIL-512	GC	Ruggiero				3h 1h		Sum	Written	4
_		Ils for engineers							14.0	5	
Ε	CIVIL-465	GC		1h	1h				Win	During the semester	2
_		and management	5.4.:						14."		
F	CIVIL-438	GC	Defert	2h					Win	Oral	2
F	River eco-mo ENV-418	GC	De	2h	1h				Win	During the	3
•	<u> </u>	30	Cesare	<b>4</b> 11	111				*****	semester	•
	Dook mass s	haraotarization for an a	Gostner								
	Rock mass c	haracterization for eng	meering								
E	CIVIL-496	GC	Kushnir				3h 2h		Sum	During the	5
_			Passelègue				•			semester	-
	Seismic engi	neering	Violay								
E	CIVIL-522	GC	Lignos				4h 2h		Sum	Written	6
_	0.1.2 022		Saloustros						<b>G</b> a		
	Selected toni	ics in mechanics of sol	Vanin ids and								
	structures										
E	CIVIL-527	GC		2h	1h				Win	Oral	3
_	Slope stabilit									144.4	
<u>E</u>	CIVIL-530	GC	Ferrari				2h 1h		Sum	Written	3
	Steel structu CIVIL-526	res GC	Nussbaumer	2h	1h				Win	Written	3
	Structural sta		racobadino						*****	William	
E	CIVIL-369	GČ	Heredia				3h 1h		Sum	Written	4
			Rosa								
			Lignos								
	Thermodyna	mics of comfort in buil	Sousa dings								
E	CIVIL-450	GC	90				1h 2h		Sum	During the	3
	Timber const	truction								semester	
F	CIVIL-433	GC	Natterer				2h 1h		Sum	Oral	3
•	Towns and T									J. W.	
F	CIVIL-451	GC	Tufo	2h	1h				Win	During the semester	3
	Transportation	on economics								GOTTIOGICI	
E	CIVIL-455	GC	Geroliminis				2h 1h		Sum	During the	3
			Yang							semester	
			de Bolmo								
	Transport fac	rilities I	Palma								
F	CIVIL-463	GC	Tille	2h	1h				Win	Written	3
	Transport fac		7.1110	-11	711				*****	***************************************	
F	CIVIL-454	GC	Tille				2h 1h		Sum	Written	3
_		construction technology							_		
F	CIVIL-404	GC	Sandrone Seingre				2h 1h		Sum	During the semester	3
	Urban hydrau	ulic systems	Serrigre							SEITIESIEF	
E	CIVIL-413	GC	Pfister				2h 1h		Sum	Oral	3
	-										

Water resources management CIVIL-466 GC

Bieri Leite Ribeiro Perona

2h 1h

Sum Oral 3

# Master project

Ε

	Courses		Maste	r 1	Master 2		MP Autumn		MP Spring		ring	Exam Session	Exam	Credit		
Language	e Code	Section	TeacherSpecialization	p	1	е р		1	е	р	1	е	р			
		nternship credited with er in Civil engineering)														
Ε	CIVIL-597	GC	Profs divers	320h		32	20h			320h			320h	Sum Win	Term pape	r0
	Master project	t in Civil Engineering														
	CIVIL-599	GC	Profs divers							900h			900h	Sum Win	Oral	30

# Pré-étude obligatoire

Соц	urses		Master	1	Ма	stei	r <b>2</b>	Exam Session	Exam	Credit
Language Cod		Section	TeacherSpecialization	p	1	е	p			
	-study mas /IL-598	<b>ter project</b> GC	Profs divers	3h				Win	During the semester	3