Studies Plan

Génie civil 2025-26

Block 1

-										
	Courses			Master 1		Master 2		Exam Session	Exam	Credit
Lang.	Code	Sect.	TeacherSpecia	ali £ ati 6 n L	TPI	CELT	PΙ			
	Computationa	al systei								
	thinking for si	ustainal	ole eng.							
E	CIVIL-534	GC	Sonta			2h 1h	1h	Sum	During the semester	4
	Construction	contrac	ts and							_
	liability									
F	ENG-300	SIE	Di			3h		Sum	Written	3
			Cicco							
			Perritaz							
	Construction	contrac	ts and							
_	liability									_
F	CIVIL-400	GC	Dubey	2h				Win	Written	2
	Environmenta	ıl impac	t							
_	assesment									_
F	ENG-474	GC	Chopard	2h 1h				Win	Oral	3
			Devanthéry							
	Innovation for		Schmidt							
	and the enviro		uction							
Е	CIVIL-424	GC	Terzis	2h 1h				Win	During the	2
_	CIVIL-424	00	161213	211 111				VVIII	semester	3
	Intercultural p	resenta	tion						3011103101	_
	skills	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ition							
E	MGT-469	MTE	Everett	1h 1h				Win	During the	2
_			_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						semester	_
	Programming	concer	ots in							
	scientific com									
E	MATH-458	MA S	Anciaux	2h 2h				Win	During the	4
									semester	
-	Project manag	gement	and risk							
	analysis									
F	MGT-427	MTE	Wieser	2h	1h			Win	During the	4
									semester	
	Research skil		ngineers							,
E	CIVIL-465	GC		1h 1h				Win	During the	2
									semester	
	Risk analysis	and								
_	management									_
F	CIVIL-438	GC	Defert	2h				Win	Oral	2

Block 2

	Courses			Master 1	Master 2	Exam Session	Exam	Credit	
Lang.	Code	Sect.	TeacherSpecia	li £ ati ⊡ n L T P	ICELTE	>	Occasion		
Ε	CE project 1 CIVIL-481	GC	Profs divers		5h	5h	Sum Win	During the semester	8
E	CE project 2 CIVIL-482	GC	Profs divers		5h	5h	Sum Win	During the semester	8
F	ENAC project PENS-490	GC	Profs divers		4h	4h	Sum Win	During the semester	4
	Summer works	shop							
	PENS-491	GC	Profs divers		40h		Win	During the semester	4
	UE génie civil:	Advan	ced						
	Drawing struc	tures							
F	CIVIL-475	GC	Baur Fernandez-Ord Guaita	2h 2h doñez			Win	During the semester	4
	HSS : Introduc		project						_
		SHS					Win		3

SHS Sum 3

Group "Optional courses"

	Courses			Master 1		Master 2		Exam Session	Exam	Credit
Lang.	Code	Sect.	TeacherSpecia 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	li £ ati l 5n L T	PI	CELT	PΙ			
	Advanced con	•								
_	engineering st			01-41-				14.6	01	0
E	CIVIL-443 Bridge design	GC	Vassilopoulos	2h 1h				Win	Oral	3
E	CIVIL-478	GC				2h 1h		Sum	Durina the	3
_	0.7.2								semester	
	City and mobil									
F	AR-458	AR	Drevon			2h		Sum	Written	3
	Compositos de	ocian o	Kaufmann							
	Composites de innovation	esigii ai	nu							
Ε	CIVIL-464	GC	Vassilopoulos			2h 1h		Sum	Oral	3
	Computationa	l	·							
_	geomechanics									
E	CIVIL-423	GC		2h 2h				Win		4
	Continuum me	chanic	s and						semester	
	applications	, on an in	o una							
E	CIVIL-425	GC				3h 2h		Sum	Oral	6
_	Dam engineeri	_	_							
E	CIVIL-411	GC	De	3h				Win	Oral	3
			Cesare Manso						Oral During the semester Written Oral During the semester Oral Oral During the semester Written During the semester Written During the semester Written During the semester Written Oral Oral Oral Oral	
	Decision-aid m	ethodo								
	in transportati		g							
E	CIVIL-557	GC	Bierlaire			2h 2h		Sum	During the	4
			Paschalidis 						semester	
	Doon loorning	for	Torres							
	Deep learning autonomous v									
E	CIVIL-459	GC	Alahi			2h 4h		Sum	During the	6
									-	
	Design and co	nstruct	ion of							
F	roadways CIVIL-463	GC	Tille	2h 1h				Win	Mritton	3
	Design of pred			211 111				VVIII	vviitteri	3
	structures		.0.010							
E	CIVIL-414	GC	Fernandez-Ord	doñez		1h	2h	Sum	During the	3
									semester	
E	Dynamics of s CIVIL-468	tructure GC	e s Lignos	3h 1h				Win	Mritton	4
_	CIVIL-400	GC	Tomic	311 111				VVIII	vviilleri	4
	Energy and co	mfort i								
	buildings									
E	CIVIL-407	GC	Favero	2h 1h	2h			Win		5
			Khovalyg						semester	
			Licina Sonta							
	Energy conver	sion ar								
	renewable ene									
E	ME-409	ĞM	Maréchal	2h 1h	1h			Win	Written	4
	F	4	Nguyen							
E	Energy geostr CIVIL-444	uctures GC	i			2h 1h	1h	Sum	Mritton	4
	Engineering of		na			211 111	111	Sum	vviitteri	
	structures	oxiotii.	.9							
E	CIVIL-511	GC	Denarié	3h 1h				Win	Oral	4
			Nussbaumer							
_	Flood and dan					0h 1h		Cum	Oral	2
<u>F</u>	CIVIL-515 Fluvial hydrau	GC lics and	Ancey Triver			2h 1h		Sum	Urai	3
	training works									
F	CIVIL-410	GC	André	2h 1h				Win	Oral	3
			Arborino							
			De							
			Cesare							

Ε	Fracture of ma MSE-424	iterials MX	Drezet Molinari		2h 2h	Sum	Written	4
	Fundamentals	of traff						
	operations and	d contro						
E	CIVIL-457	GC	Geroliminis	2h 1h	1h	Win	During the semester	4
Е	Geomechanics		Ferrari	0 h 0 h		14/:	14/11/44 - 1-	_
_	CIVIL-402	GC	reman Laloui	3h 2h		Win	Written	5
-	Geothermal re	source						
	development							
Ε	CIVIL-470	GC	Kushnir	2h 1h		Win	During the semester	3
	Hydrological r	isks an	d					
_	structures	CIE	A	45.05		14/:	Division of the	2
F	ENV-524	SIE	Ancey	1h 2h		Win	During the semester	3
	Hydropower s	chemes	and				GOTTIOGICI	
	pumped-stora	ge						
Ε	CIVIL-469	GC	De		2h 2h	Sum	Written	4
			Cesare					
	ludeen ein eure	!!4 a.a.al	Manso					
	Indoor air qua ventilation	iity and						
E	CIVIL-460	GC	Licina		2h 2h	Sum	During the	4
_	J 100				£11 £11	Gain	semester	•
	Irrigation and	drainag	je					
	engineering	_						
E	ENV-549	SIE	Perona	2h 1h	1h	Win	Oral	4
	Life cycle asso		t in					
Ε	energy system ENV-510	is <i>EL</i>	Morani	2h 1h		Win	During the	2
_	ENV-310	EL	Margni	2h 1h		VVIII	During the semester	3
	Machine learn	ing for					Serriester	
	predictive mai		ce					
	applications							
Ε	CIVIL-426	GC	Fink	2h 2h	2h	Win	During the	6
							semester	
_	Materials and			01-41-		147:-	01	0
<u>E</u>	CIVIL-532 Mathematical	GC	Denarié	2h 1h		Win	Oral	3
	behavior	modem	ng oi					
Ε	MATH-463	MA	Bierlaire	2h 2h		Win	Written	5
	Mobility engin		2.0					
F	CIVIL-451	GC	Tufo	2h 1h		Win	During the	3
							semester	
	Modelling and		zation of					
_	energy system		11	0h 0h		14/:	01	,
<u>E</u>	ME-454 Multiscale mo	GM	Maréchal in	2h 2h		Win	Oral	4
	mechanics	ueiiiig						
E	CIVIL-408	GC	Karapiperis	2h 2h		Win	During the	4
							semester	
	Nonlinear ana	lysis of						
_	structures							_
Ε	CIVIL-449	GC	Lignos	3h 2h		Win	Written	6
	Ontional inter-	dian'ını'ı	Saloustros					
	Optional intere	necibili	ıaı y					
Ε	CIVIL-493	GC	Profs		4h	4h <i>Sum</i>	During the	4
_	22 .50		divers		•••	Win	semester	-
	Quantitative in	naging						
	engineers							
Ε	MICRO-518	MT	Andò		2h 1h	Sum	During the	3
	D-!!-		di ala				semester	
	Railway syster	ms and	tneir					
	4 man = ! 4 ! =							_
E	transition	SIE	Kummor	2h 1h		11/in	$\Omega r \Omega I$	-2
E	URB-406	SIE	Kummer	2h 1h		Win	Oral	3
E	URB-406 Reinforced co	ncrete		2h 1h		Win	Oral	3
<u>Е</u>	URB-406	ncrete		2h 1h	3h 1h	Win Sum	Oral Written	3

	River eco-mor		namics							
Ε	ENV-418	GC	De Cesare Gostner Perona	2h 2h				Win	During the semester	4
	Rock mass ch									
Ε	for engineerin CIVIL-496	g desig GC	jn Vacat Violay		2h 1h	ı 1h		Sum	During the semester	4
Ε	Seismic engin CIVIL-522	eering GC	Lignos Saloustros Tomic		4h 2h	1		Sum	Written	6
	Shaping future	e railwa								
	systems									
E	URB-408	SIE	Kummer		2h 1h	1		Sum	Oral	3
_	Slope stability				01-41-			0	Mercan	0
E	CIVIL-530 Steel structure	GC	Ferrari		2h 1h	1		Sum	Written	3
	topics	53, 3616	cieu							
Ε	CIVIL-526	GC	Nussbaumer	2h 1h				Win	Written	3
	Structural stal									
Ε	CIVIL-409	GC	Lignos Sousa		3h 1h	1		Sum	Written	4
	Thermodynan	nics of o								
Ε	in buildings CIVIL-450	GC	Khovalyg		1h	1h	1h	Sum	During the semester	3
	Timber constr	uction							Semester	
E	CIVIL-433	GC	Natterer		2h 1h	1		Sum	Oral	3
	Transportation									
E	CIVIL-455	GC	Geroliminis		2h 1h	1		Sum	During the	3
			Yang de						semester	
			ue Palma							
	Transportation	n netwo								
	modeling & ar									
E	CIVIL-477	GC	Zhang		2h 1h	1		Sum	Oral	3
Ε	Underground CIVIL-404	GC GC	uction Sandrone		2h 1h	1		Sum	During the semester	3
	Urban hydrau	lic syst	ems						serriester	
Ε	CIVIL-413	GC	Pfister		2h 1h	1		Sum	Oral	3
F	Urban hydrolo ENV-417	ogy SIE	Rossi		2h 2h	1		Sum	During the semester	4
	Water resource	es ena	ineering						3011100101	
	and managem		ŭ							
Ε	CIVIL-466	GC	Bieri		3h 1h	1	1h	Sum	Written	5
			Perona							
			Zeimetz							

Master project

	Courses			Master 1	Master 2		MP Aut	umn	MP Spring	Exam Session	Exam	Credit
Lang.	. Code	Sect.	TeacherSpecia	li£CatiEn L T P	1 C	ELT	PICEL	TPI	CELTP	1		
	Engineering in credited with (master in Civ	Master	Project									
Ε	CIVIL-597	GC	Profs divers		320h	1	320h	32	0h	320 S ium Win	Term par	er0
	Master project in Civil											
	Engineering CIVIL-599	GC	Profs divers					90	0h	900 S um Win	Oral	30