Studies Plan

Génie civil 2024-25

Block "Cross-disciplinary team projects"

	Courses			Exam Session	Exam	Credit
Lang	. Code	Sect.	Teacher			
	Semaine ENA	С				
F		ENAC		Sum		4
	Unités d'ense	igneme	nt ENAC			
F		ENAC		Sum		4

Block 1

	Courses			Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher	CELTPI	CELTPI	CELTPI	CELTPI			
	Analysis III									
F	MATH-203(b)	MA	Strütt	2h 2h				Win	Written	4
	Analysis IV									
E	MATH-207(d)	MA	Licht		2h 2h			Sum	Written	4
	Introduction to	optim	ization							
	and operation	s resea	rch							
Ε	MATH-265	GC	Bierlaire	2h 2h				Win	Written	4
	Probability and	d statis	tics							
F	MATH-234(a)	MA	Goldstein	2h 1h				Win	Written	3

Block 2

	Courses			Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher	CELTPI	CELTPI	CELTPI	CELTPI			
	Continuum me GC)	echanic	s (for							
F	CIVIL-225	GC	Molinari	3h 2h				Win	Written	5
	Engineering a	sustair	nable							
	built environm	nent								
E	CIVIL-239	GC	Sonta	2h 1h				Win	Written	3
	Fluids mechar	nics (Fo	r GC)							
F	CIVIL-210	GC	Ancey		3h 2h			Sum	Written	5
	Structural med	chanics	(for							
	GC)									
Ε	CIVIL-238	GC	Vassilopoulos		2h 2h			Sum	Written	4

Block 3

	Courses			Bac	helo	r 3	E	Bache	lor	4	В	Bach	elor	5	Ba	chel	or 6		Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher	CE	ΞL	T P	1 (E	L 7	T P	l C	; E	L 7	- P I	С	E L	Т	PΙ	0000.0		
	Fundamentals climate	of indo	oor																		
Ε	CIVIL-212	GC	Licina	1h 1	lh														Win	During the semester	2
F	Geology CIVIL-211	GC	Müntener Vanardois Violay	2h 1	lh	1h													Win	During the semester	4
	Introduction to																				
Ε	learning for er CIVIL-226	gineer: GC	s Alahi Fink				2	2h 3h											Sum	During the semester	5
	Introduction to	o transp	ortation																		
Ε	civiL-355	GC	Bierlaire				2	2h 1h											Sum	During the semester	3
	Soil mechanic																				
E	through porou CIVIL-203	is medi GC	a Karapiperis				3	sh 2h	1	lh									Sum	Written	5

Block 4

	Courses			Bachel	or 3	Bach	nelor 4		Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher	CEL	TPI	CE	LT	PΙ	CELTPI	CELTPI			
	Design of stee		ures										
F	CIVIL-235	GC	Nussbaumer							3h 2h	Sum	Written	5
	Geotechnical												
F	CIVIL-306	GC	Lecampion							3h 2h	Sum	Written	5
	Hydraulic stru	ctures	and										
_	schemes												
F	CIVIL-312	GC	Amini						3h 2h		Win	Written	5
			De										
			Cesare										
			Manso										
_	Numerical and		.,						a			144.4	_
E	MATH-251(a)		Kressner						2h 1h		Win	Written	3
	Numerical mo												
_	solids and str									a. a.		144.4	
F	CIVIL-321	GC	Anciaux							2h 2h	Sum	Written	4
	D-1(1		Molinari										
	Reinforced co	ncrete											
_	structures CIVIL-323	GC	Duggioro						3h 2h		Win	Written	5
<u>E</u>	Rock mechan		Ruggiero						311 211		VVIII	vviilleri	3
F	CIVIL-308	GC	Sandrone						3h 2h		Win	Written	5
Г	CIVIL-300	GC	Violay						311 211		VVIII	vvritteri	5
	Traffic engine	orina	violay										
Ε	CIVIL-349	GC	Geroliminis						2h 2h		Win	During the	1
_	CIVIL-349	GC	Gerominins						211 211		VVIII	semester	4
	Urban public t	traneno	rt									semester	
	systems	папэро											
E	CIVIL-324	GC	Yao							2h 1h	Sum	During the	3
_	OTTIL OLT	00	Zhang							2.1. 111	Gum	semester	•
	Urban Thermo	odvnam										23///00/0/	
E	CIVIL-309	GC	Khovalyg						2h 1h		Win	During the	3
_	300		/ 9									semester	-

Block 5

	Courses			Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Lang	. Code	Sect.	Teacher	CELTPI	CELTPI	CELTPI	CELTP	I		
	Project in civi	l engine	ering							
F	CIVIL-390	GČ	Profs					5h <i>Sum</i>	During the	5
			divers						semester	

Block 6

	Courses			Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam	Exam	Credit
	Courses			Dacricioi 5	Dacricioi 4	Dacrieror 5	Bacileioi 0	Session	LXUIII	Orean
Lang	Code	Sect.	Teacher	CELTPI	CELTPI	CELTPI	CELTPI			
	Data Science									
	infrastructure monitoring	condit	ion							
Ε	CIVIL-332	GC	Fink				2h 1h	Sum	During the semester	3
	Dimensioning	of Tim	ber							
_	structures									
F	CIVIL-331	GC	Natterer			2h 1h		Win	Written	3
F	Estimation me ENG-267	SIE	Skaloud			2h 2h		Win	Written	4
<u></u>	Geographic in	_				211 211		VVIII	vviilleri	4
	system (GIS)	iioriiiai	ion							
F	ENV-342	SIE	Joost				2h 2h 1h	Sum	Written	5
	Heat and mass	s trans								
E	ME-341	GM	Tagliabue				3h 1h	Sum	Written	4
	Hydrology for		ers							
Ε	ENV-221	SIE	Bonetti			2h 2h		Win	Written	5
	Numerical rep	resenta	ation /							
	BIM									
F	CIVIL-307	GC	Domer				2h 1h	Sum	During the semester	3
	Signals, instru	ıments	and							
E	systems ENG-366	SIE	Martinoli				2h 2h	Sum	Written	5

Transverse block HSS

	Courses			Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher			
	SHS: Bachelo	r cycle	BA6			
F		SHS				2
	HSS: Bachelo	r cycle	BA5			
F		SHS				2
	HSS: Bachelo	r cycle	BA4			
F		SHS				2
	HSS: Bachelo	r cycle	BA3			
F		SHS				2