

Studies Plan

Systèmes de communication 2020-21

Block D

Courses			Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit								
Language	Code	Section	Teacher	I	e	p	I	e	p	I	e	p					
E	Principles of digital communications												4h	2h	Sum	Written	6
	COM-302	SC	Telatar														
E	Signal processing for communications												4h	2h	Sum	Written	6
	COM-303	SC	Prandoni														
F	Stochastic models in communication												4h	2h	Win	Written	6
	COM-300	SC	Thiran														

Block E

Courses			Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit							
Language	Code	Section	Teacher	I	e	p	I	e	p	I	e	p				
E	Algebra															
	MATH-310	MA	Lachowska							2h	1h			Win	Written	3
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E	Computer security															
	COM-301	SC	González Troncoso							2h	1h	1h		Win	During the semester	4

Group I "Project"

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	I e p	I e p	I e p	I e p			
F	Project in communication systems I									
	COM-307	SC	Profs divers			2h	2h	Sum Win	During the semester	8

Group II "options"

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit					
Language	Code	Section	Teacher	I	e	p	I	e	p	I	e	p	I	e	p
F	Artificial intelligence			I			I			I			I		
	CS-330	IN	Faltings							2h	2h		Sum	During the semester	4
E	Computer language processing			I			I			I			I		
	CS-320	IN	Kuncak				2h	2h	2h				Win	During the semester	6
F	Electromagnetics I : Transmission lines and waves														
	EE-200	EL	Fleury	I			I			I			I		
							2h	1h					Win	Written	3
F	Electromagnetics II : field computation														
	EE-201	EL	Fleury	I			I			I			I		
							2h	1h					Sum	Written	3
F	Electronics II			I			I			I			I		
	EE-203(b)	EL	Zysman				2h	2h					Win	During the semester	4
F	Electronics III			I			I			I			I		
	EE-381	EL	Zysman							2h	1h		Sum	During the semester	3
F	General chemistry			I			I			I			I		
	CH-160(b)	CGC	Terrettaz				2h	1h					Win	Written	3
E	Internet analytics			I			I			I			I		
	COM-308	SC	Grossglauser							2h	1h	2h	Sum	Written	5
E	Introduction to computer graphics			I			I			I			I		
	CS-341	IN	Pauly							2h	1h	2h	Sum	Written	6
E	Introduction to database systems			I			I			I			I		
	CS-322	IN	Ailamaki Koch							2h	1h	1h	Sum	Written	4
F	Introduction to life sciences (for IC)														
	BIO-109	SV	Zufferey	I			I			I			I		
							4h	2h					Sum	Written	6
E	Introduction to multiprocessor architecture			I			I			I			I		
	CS-307	IN	Falsafi				2h		1h				Win	Written	4

E	Introduction to operating systems			Payer	2h 1h 2h			Win	Written	5
	CS-323	IN								
F	Projet de systems-on-chip			Beuchat	3h			Sum	During the semester	3
	CS-309	IN								
F	Quantum computation			Macris	3h 1h			Sum	Written	4
	CS-308	SC								
F	Quantum information processing			Macris	3h 1h			Win	Written	4
	COM-309	SC								
E	Software development project			Candea	4h			Sum	During the semester	4
	CS-306	IN								
E	Software engineering			Candea	2h 1h 1h			Win	Written	4
	CS-305	IN								

Block A

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	l e p	l e p	l e p	l e p			
E	Computer networks			2h 2h				Win	Written	5
	COM-208	SC	Argyrazi							
E	Probabilities and statistics			4h 2h				Sum	Written	6
	MATH-232	MA	Abbé							

Block B

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	l e p	l e p	l e p	l e p			
E	Algorithms			4h 2h				Win	Written	6
	CS-250	IN	Svensson							
E	Computer architecture I			2h 2h				Win	Written	4
	CS-208	IN	Stojilovic							
F	System oriented programming				1h 2h			Sum	Written	3
	CS-207	IN	Chappelier							
E	Theory of computation			2h 2h				Sum	Written	4
	CS-251	IN	Göös							

Block C

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	l e p	l e p	l e p	l e p			
F	Analysis III			2h 2h				Win	Written	4
	MATH-203(c)	MA	Strütt							
F	Analysis IV				2h 2h			Sum	Written	4
	MATH-207(d)	MA	Strütt							
E	General physics: electromagnetism			2h 2h				Win	Written	4
	PHYS-114	PH	Dil							
E	Signals and systems (for EL&IC)			2h 2h				Sum	Written	4
	EE-205	SC	Shkel							

Group "Option courses"

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit
Language	Code	Section	Teacher	l e p	l e p	l e p	l e p			
E	Computer architecture II				2h 2h			Sum	Written	4
	CS-209	IN	Ienne							
F	Electronics I			2h 1h				Win	During the semester	4
	EE-202(b)	EL	Zysman							
E	Functional programming			2h 2h				Win	Written	5
	CS-210	IN	Kuncak Odersky							
F	Human computer interaction				2h 2h			Sum	Written	5
	CS-213	IN								
E	Introduction to machine learning (BA3)			2h 2h				Win	Written	4
	CS-233(a)	IN	Salzmann							
E	Introduction to machine learning (BA4)				2h 2h			Sum	Written	4
	CS-233(b)	IN	Fua							

<i>E</i>	Numerical methods for visual computing and ML CS-328	<i>IN</i>	<i>Jakob</i>	2h 1h		<i>Win</i>	<i>Written</i>	<i>4</i>
<i>E</i>	Parallelism and concurrency CS-206	<i>IN</i>	<i>Kuncak</i> <i>Odersky</i>		1h 1h 2h	<i>Sum</i>	<i>During the semester</i>	<i>4</i>
<i>F</i>	System programming project CS-212	<i>IN</i>	<i>Bugnion</i> <i>Chappelier</i>		2h	<i>Sum</i>	<i>During the semester</i>	<i>2</i>
<i>E</i>	Technologies of societal self-organization CS-234	<i>IN</i>	<i>Ford</i>	2h 1h 2h		<i>Win</i>	<i>Written</i>	<i>5</i>

Transverse block HSS

Courses			Exam Session	Exam	Credit
<i>Language</i>	<i>Code</i>	<i>Section</i>	<i>Teacher</i>		
<i>F</i>	SHS : Bachelor cycle BA6	<i>SHS</i>			<i>2</i>
<i>F</i>	HSS : Bachelor cycle BA5	<i>SHS</i>			<i>2</i>
<i>F</i>	HSS : Bachelor cycle BA4	<i>SHS</i>			<i>2</i>
<i>F</i>	HSS : Bachelor cycle BA3	<i>SHS</i>			<i>2</i>