

Studies Plan

Systèmes de communication 2023-24

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	Algorithms I CS-250	IN	Kapralov Svensson		4h 2h			Sum	Written	8
F	Analysis III MATH-203(c)	MA	Basterrechea	2h 2h				Win	Written	4
F	Analysis IV MATH-207(d)	MA	Basterrechea		2h 2h			Sum	Written	4
E	Computer networks COM-208	SC	Argyrazi	2h 2h				Win	Written	5
E	Signal processing COM-202	SC	Prandoni Shkel	4h 2h 2h				Win	Written	8

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	Computer systems CS-202	IN	Argyrazi Bugnion Chappelier		4h 4h			Sum	Written	8
E	General physics: electromagnetism PHYS-114	PH	Shchutka	2h 2h				Win	Written	4
E	Introduction to machine learning CS-233	IN	Fua Salzmann		2h 2h 2h			Sum	Written	6
E	Probability and statistics MATH-232	MA	Berthier	4h 2h				Win	Written	6

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			
E	Algebra MATH-310	MA	Lachowska			2h 2h		Win	Written	4
E	Computer security and privacy COM-301	SC	Troncoso			2h 2h		Win	Written	4
E	Principles of digital communications COM-302	SC	Telatar				4h 2h	Sum	Written	6
F	Stochastic models in communication COM-300	SC	Thiran			4h 2h		Win	Written	6

Group "Optional 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			
F	Analytical mechanics (for SPH) PHYS-202	PH	De Los Rios	3h 2h				Win	Written	5
F	Artificial intelligence CS-330	IN	Faltings				2h 2h	Sum	During the semester	4
E	Computer architecture CS-200	IN	Khun Jush	4h 4h				Win	Written	8
E	Computer graphics CS-341	IN	Pauly				2h 1h 2h	Sum	Written	6
E	Computer language processing CS-320	IN	Racordon				2h 2h 2h	Sum	During the semester	6

E	Data-intensive systems CS-300	IN	Ailamaki Kashyap	2h	1h	2h	Sum	Written	6
F	Electromagnetics I : Transmission lines and waves EE-200	EL	Fleury	2h	1h		Win	Written	3
F	Electromagnetics II : field computation EE-201	EL	Fleury	2h	1h		Sum	Written	3
F	Electronics I EE-202(b)	EL	Sallese Zysman	2h	1h		Win	During the semester	4
F	Electronics II EE-203(b)	EL	Sallese Zysman	2h	2h		Win	During the semester	4
F	Electronics III EE-381	EL		2h	1h		Sum	During the semester	3
F	General chemistry CH-160(b)	CGC	Terrettaz	2h	1h		Win	Written	3
F	Human computer interaction CS-213	IN	Egger	2h	2h		Sum	Written	5
E	Internet analytics COM-308	SC	Grossglauser	2h	1h	2h	Sum	Written	6
F	Introduction to life sciences (for IC) BIO-109	SV	Zufferey	4h	2h		Sum	Written	6
E	Introduction to multiprocessor architecture CS-307	IN	Falsafi	2h	1h		Win	During the semester	4
E	Introduction to operating systems CS-323	IN	Kashyap	2h	1h	2h	Win	Written	5
E	Introduction to quantum computation CS-308	IN	Lévêque Urbanke		3h	1h	Sum	Written	5
E	Introduction to quantum information processing COM-309	SC	Macris	3h	1h		Win	Written	5
E	Making intelligent things CS-358	IN	Koch			8h	Sum	During the semester	8
F	Microprogrammed Embedded Systems EE-310	EL	Atienza Alonso	2h	2h		Win	Oral	4
E	Numerical methods for visual computing and ML CS-328	IN	Jakob	2h	2h		Win	Written	4
E	Parallelism and concurrency CS-206	IN	Kashyap Kuncak	1h	1h	2h	Sum	During the semester	4
E	Parallelism and concurrency in software CS-302	IN			3h	3h	Sum	During the semester	6
E	Quantum mechanics I PHYS-207	PH	Banerjee	3h	2h		Sum	Written	5
E	Signal processing for communications COM-303	SC	Prandoni		4h	2h	Sum	Written	6
E	Software construction CS-214	IN	Kuncak Odersky Pit-Claudel	3h	2h	3h	Win	Written	8
E	Technologies for democratic society CS-234	IN	Estrada-Galiñan	2h	1h	2h	Win	Written	5
E	Theory of computation CS-251	IN	Göös	2h	2h		Sum	Written	6
E	The software enterprise - from ideas to products CS-311	IN	Bugnion Candea	2h	1h	10h	Sum	During the semester	8

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		
E	COM-304	SC	Al Hassanieh Zamir				2h 10h	Sum	During the 8 semester
Projet de recherche en Systèmes de communication I									
F	COM-307	SC	Profs divers			2h	2h	Sum Win	During the 8 semester

Transverse block HSS

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