

Studies Plan

Systèmes de communication 2026-27

Block A

Courses			Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit																						
Lang.	Code	Sect.	Teacher	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I				
E	Algorithms I CS-250	IN	Chiesa Svensson							4h	2h																		Sum	Written	8
E	Analysis III (for IC) MATH-203(d)	MA	Antolin Sanchez	3h	2h																							Win	Written	6	
E	Signal processing COM-202	SC	Prandoni							4h	2h	2h																Sum	Written	8	

Block B

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit																				
Lang.	Code	Sect.	Teacher	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I			
E	Computer systems CS-202	IN	Argyraki Chappelier Kashyap							4h	2h	2h																Sum	Written	8
F	General physics : electromagnetism PHYS-114	PH	Avino	2h	2h																						Win	Written	4	
E	Introduction to machine learning CS-233	IN	Fua Salzmann							2h	2h		2h														Sum	Written	6	
F	Probability and statistics (for IC) MATH-232	MA	Ott	4h	2h																						Win	Written	6	

Block C

Courses				Bachelor 3			Bachelor 4			Bachelor 5			Bachelor 6			Exam Session	Exam	Credit												
Lang.	Code	Sect.	Teacher	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I			
E	Algebra MATH-310	MA	Lachowska													2h	2h											Win	Written	4
E	Computer security and privacy COM-301	SC	Bourgeat Kulynych													3h	1h	1h										Win	Written	6
E	Principles of digital communications COM-302	SC	Telatar														4h	1h	1h									Sum	Written	6
F	Stochastic models in communication COM-300	SC	Thiran													4h	2h											Win	Written	6

Group "options"

Courses				Bachelor 3	Bachelor 4	Bachelor 5	Bachelor 6	Exam Session	Exam	Credit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Lang.	Code	Sect.	Teacher	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
E	Analysis IV MATH-207(d)	MA	Braun							2h	2h																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			

E	Computer language processing CS-320	IN	Kuncak		2h 2h	2h	Sum	During the semester	6
E	Data-intensive systems CS-300	IN	Ailamaki Kashyap		2h 1h 2h		Sum	Written	6
E	Digital IC design EE-330	EL	Schmid		2h 1h		Sum	Written	3
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 (for IC) EE-203(b)	EL	Sallese Zysman	2h 2h			Win	During the semester	4
E	Human-computer interaction CS-213	IN	Holstein	2h	2h		Sum	Written	5
E	Internet analytics COM-308	SC	Grossglauser		2h 1h	2h	Sum	Written	6
E	Introduction to life sciences (for IC) BIO-109	SV	Constam Jeschek Yang	4h 2h			Sum	Written	6
E	Introduction to quantum computation CS-308	IN	Macris		3h 1h		Sum	Written	5
E	Introduction to quantum information processing COM-309	SC	Macris	3h 1h			Win	Written	5
E	Neuroscience foundations for engineers BIOENG-310	SV	Schrimpf Zenk		3h 3h		Sum	Written	6
E	Numerical methods for visual computing and ML CS-328	IN	Jakob	2h 2h			Win	Written	4
F	Optional Research Project in Syscom I COM-307	SC	Profs divers		2h	2h	Sum Win	During the semester	8
E	Parallelism and concurrency in software CS-302	IN	Falsafi		3h 1h 2h		Sum	During the semester	6
E	Principles of online decision-making CS-303	IN	Grossglauser	2h 1h 1h			Win	Written	6
E	Quantum mechanics for non-physicists PHYS-344	PH	Manucharyan	2h 2h			Win	Written	5
E	Responsible software CS-290	IN	Hardebolle	2h 2h	2h 2h		Win	Written	5
E	Software construction CS-214	IN	Kuncak Odersky Pit-Claudel	3h 2h 3h			Win	Written	8
E	Technologies for democratic society CS-234	IN	Ford	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	Candea	2h 1h	14h		Win	During the semester	8

Group I "Project"

Courses				Bachelor 3					Bachelor 4					Bachelor 5					Bachelor 6					Exam Session	Exam	Credit	
Lang.	Code	Sect.	Teacher	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I	C	E	L	T	P	I
E	Intelligent systems: communications & AI																										
E	COM-304	SC	Al Hassanieh Zamir															2h		10h	Sum			During the semester	8		
E	Making intelligent things A																										
E	CS-358(a)	IN	Koch											1h	12h						Win			During the semester	8		
E	Making intelligent things B																										
E	CS-358(b)	IN	Koch															1h		12h	Sum			During the semester	8		

Transverse block HSS

Courses			Exam Session	Exam	Credit
Lang.	Code	Sect. 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			