

Studies Plan

Mineur : Génie électrique et électronique 2024-25

Minor : Electrical and Electronic Engineering

Courses				Exam Session	Exam	Credit
Lang.	Code	Sect.	Teacher			
Adaptation and learning						
E	EE-566	EL	Sayed	Sum	During the semester	4
Advanced analog integrated circuit design						
E	EE-523	EL	Shoaran	Sum	Written	3
Analog circuits for biochip						
E	EE-518	EL	Carrara Schmid Skrivervik	Sum	Written	3
Audio engineering						
E	EE-548	EL	Lissek	Win	Written	4
Automatic speech processing						
E	EE-554	EL	Magimai Doss	Win	Written	4
Deep learning						
E	EE-559	EL	Cavallaro	Sum	During the semester	4
Fundamentals of analog VLSI design						
E	EE-424	EL	Enz	Win	Written	4
Fundamentals of inference and learning						
E	EE-411	EL	Krzakala	Win	During the semester	4
Fundamentals of VLSI design						
E	EE-429	EL	Burg Levisse	Win	Written	6
Image analysis and pattern recognition						
E	EE-451	EL	Bozorgtabar Thiran	Sum	During the semester	4
Image and video coding						
E	EE-569	EL		Win	Oral	4
Lab in acoustics						
E	EE-490(a)	EL	Lissek	Win	During the semester	4
Lab in advanced VLSI design						
E	EE-490(b)	EL	Burg Levisse	Sum	During the semester	4
Lab in microwaves						
E	EE-490(e)	EL	Skrivervik	Win	During the semester	4
Lab in nanoelectronics						
E	EE-490(i)	EL	Kis	Win	During the semester	4
Lab in signal and image processing						
E	EE-490(f)	EL	Thiran	Sum	During the semester	4
Lab on app development for tablets and smartphones						
E	EE-490(g)	EL	Ansaloni	Win	During the semester	4
Mathematics of data: from theory to computation						
E	EE-556	EL	Cevher	Win	Written	6
Nanoelectronics						
E	EE-535	EL	Ionescu	Win	Written	2
Network machine learning						
E	EE-452	EL	Frossard Thanou	Sum	During the semester	4
Photonic systems and						

technology						
E	EE-440	EL	Brès	Sum	Written	4
Physical models for micro and nanosystems						
E	EE-536	EL	Kis	Win	During the semester	2
Semiconductor devices I						
E	EE-557	EL	Matioli	Win	During the semester	4
Smart sensors for IoT						
E	EE-594	EL		Win	Written	3
Test of VLSI systems						
E	EE-530	EL	Schmid	Win	Written	2
Wireless receivers: algorithms and architectures						
E	EE-442	EL	Burg	Win	During the semester	4