Studies Plan

EDEE - Electrical Engineering 2023-24

Core courses

Courses		Caption	Toooh	Exam	Credit
Languag		Section Model Identification	Teacher		
(Next tim		woder identification			
È	EE-607	EDEE	Frigo Paolone	Project report	4
Advance	ed microwaves	for wireless communi			
•	e: Spring 2024)				
E	EE-712	EDEE	Skrivervik	Multiple	4
(Next tim	e: Fall 2024)	ectromagnetic compati	bility		
E	EE-708	EDEE	Rachidi-Haeri	Oral presentation	2
Advance (Next tim		twork neuroscience			
E	EE-619	EDEE	Amico	Written	2
		ural Language Process		William	
	e: Fall 2025)		- 3		
E	EE-608	EDEE	Henderson	Multiple	4
	and Optimizatione: Fall 2024)	on of Internet-of-Thing	s Systems		
E	EE-733	EDEE	Aminian Atienza	Oral presentation	4
			Alonso Burg		
•	Speech and Au	dio Coding	<u> </u>		
•	e: Fall 2024)				
E	EE-719	EDEE	Magimai	Multiple	4
			Doss Motlicek		
EECS S	eminar: Advan	ced Topics in Machine			
	e: Spring 2025)	p			
Ē	ENG-704	EDEE	Bosselut	Autre (reprise)	2
			Cevher		
			Faltings		
			Flammarion Frossard		
			West		
Fundam	entals in statis	tical pattern recognition			
(Next tim	e: Spring 2025)				
E	EE-612	EDEE	Anjos	Multiple	4
			Canévet		
Graph -	oprocontations	for biology and medic	Marcel		
	e: Fall 2024)	ioi biology and medic	.iiie		
È	EE-626	EDEE	Thanou	Oral	2
Human	language techr	nology: applications to	information		 -
access	E #000 1				
-	ne: Fall 2024)		D	A A . I C . I .	4
<u>E</u>	EE-724	EDEE	Popescu-Belis	Multiple	4
	e: Fall 2024)				
E	EE-611	EDEE	Müllhaupt	Multiple	4
	LE-077		νιαπιαυρι	Manapio	<u>r</u>
(Next tim	e: Fall 2025)	9			
Ė	EE-613	EDEE	Calinon	Multiple	4
_			Canévet	•	
L			~		
L			Odobez		
			Odobez Villamizar		
Online le	earning in gam	es			
Online le	earning in gam e: Spring 2024) EE-735	es EDEE		Oral presentation	4

Optimal Control for Dynamic Systems (Next time: Spring 2024)

Ε	EE-736	EDEE	Faulwasser Jiang	Oral presentation	3					
Perception and learning from multimodal sensors										
(Next tim	e: Fall 2024)									
E	EE-623	EDEE	Odobez	Written & Oral	4					
	Research seminars in Electrical Engineering - FALL (Next time: Fall 2024)									
E	EE-625(a)	EDEE	Choo Fleury Matioli	Oral presentation	1					
	ch seminars in E e: Spring 2024)	Electrical Engineering -	SPRING							
Ε	EE-625(b)	EDEE	Choo Fleury Matioli	Oral presentation	1					
Sparse stochastic processes (Next time: Fall 2024)										
E	EE-726	EDEE	Unser	Multiple	4					
Usability engineering (Next time: Spring 2024)										
Ε	EE-600	EDEE	Carrara Lang Stradolini	Project report	3					

Other doctoral courses (EDOC)

Cours	~ ~	Castian	Tanahan	Exam	Credit
_	age Code	Section	Teacher		
	ime: Fall 2023)	maging methods a	nd instrumentatior	1	
E	PHYS-719	EDPY	Invited lecturers Lê Mishkovsky	Term paper	4
	ced electromagn		, ,		
E	EE-624	EDPO	Fleury	During the semester	3
(Stude	nts are required to ha	miconductor Device ave taken semiconductor / Next time: Spring 202	or classes (EE-557,		
E	EE-627	EDEE	Grandjean Matioli	Oral presentation	3
	ced micro-/nano 19-23, 2023)	- manufacturing			
E	MICRO-632	EDAM	Various lecturers	Written	2
Electro (June 1	ochemical nano-l 10-14, 2024)	oio-sensing and bid	o/CMOS interfaces		
Ė	MICRO-614	EDMI	Carrara	Project report	1
	y Autonomous W	ireless Smart Syst	ems		
E	MICRO-617	EDMI	Burg Dehollain Maloberti Skrivervik	Multiple	3
	e series on scier ime: Fall 2024)	ntific machine learn	ing		
Ē	PHYS-754	EDPY	Carleo Ceriotti De Los Rios Mathis Schwaller Wyart Zdeborová	Oral presentation	2
	cale MOSFETs a ime in Autumn 2025)	nd beyond CMOS o	devices		
E	MICRO-611	EDMI	lonescu Zota	Oral	1

Scientific programming for Engineers (Next time: Fall 2023)

(
E	MATH-611	EDCE	Anciaux	Project report	4
	tical physics for time: Spring 2025)	optimization & lea	arning		
E	PHYS-642	EDPY	Krzakala Loureiro Saglietti Zdeborová	During the semester	4
	ient and dynami	c analysis of elect	ric power systems		
E	EE-603	EDEY	Cherkaoui Rachidi-Haeri	Written	3

External courses

Course	es			Exam	Credit
Langua	age Code	Section	Teacher		
(24-28 Registra		nation: https://imaging	.epfl.ch/summer-school xt9y9 - Application dead		
E	EE-805	EDEE	Andò Sage Unser	Written	2
(29 to 3	31 July 2024; Infoi	ement Learning mation and Registration iew/marl-school2024/a			
E	EE-806	EDEE	Cevher	Oral	2
	LL 000	LDLL	OCVIICI	Orai	

Master courses

Cours	es			Exam	Credit
•	age Code	Section	Teacher		
Adapt	ation and learni	ng			
E	EE-566	EL	Sayed	Written	4
Advan	nced probability	and applications			
E	COM-417	SC	Shkel	Written	8
Applie	ed data analysis				
E	CS-401	SC	West	Written	8
Artific	ial neural netwo	rks/reinforcement	learning		
E	CS-456	IN	Gerstner	Written	6
Bioim	age informatics				
E	BIO-410	SV	Sage Seitz	Written	4
Comp	utational neuros	sciences: neuronal	dynamics		
Ε	NX-465	NX	Gerstner	Written	5
Comp	utational Social	Media			
Ε	DH-500	DH	Gatica-Perez	During the semester	4
Data v	visualization				
Ε	COM-480	SC	Vuillon	During the semester	6
Deep l	learning				
Ε	EE-559	EL	Cavallaro	During the semester	4
Funda	mentals of bion	nedical imaging			
Ε	PHYS-438	PH	Gruetter	Written	4
Machi	ne learning				
E	CS-433	IN	Flammarion Jaggi	Written	8
Marko	v chains and alg	gorithmic applicati			
E	COM-516	SC	Lévêque Macris	Written	6
Mathe	matics of data:	from theory to con	putation		
E	EE-556	EL	Cevher	Written	6

Networks out of control (Cours biennal)

Ε	COM-512	SC	Grossglauser Thiran	Written	6					
Optim	Optimization for machine learning									
E	CS-439	IN	Flammarion Jaggi	Written	8					
Statist	tical machine lea	rning								
E	MATH-412	MA	Obozinski	Written	5					
Statist	Statistics for data science									
E	MATH-413	MA	Rubin	Written	8					
Under	Understanding statistics and experimental design									
E	BIO-449	SV	Herzog	Written	4					
Wirele	Wireless receivers: algorithms and architectures									
E	EE-442	EL	Burg	During the semester	4					