Studies Plan

EDMI - Microsystems and Microelectronics 2023-24

Core courses

Courses Languag		Section	Teacher	Exam	Credit					
Additive Manufacturing of Metals and Alloys										
Е	MSE-666	EDMX	Leinenbach Logé	Oral presentation	2					
Advanced III-Nitride Semiconductor Devices										
(Students are required to have taken semiconductor classes (EE-557, PHYS-433 or an equivalent) / Next time: Spring 2025)										
E	EE-627	EDEE	Grandjean Matioli	Oral presentation	3					
Advanced micro-/nano- manufacturing (June 19-23, 2023)										
E	MICRO-632	EDAM	Various lecturers	Written	2					
Advance	ed topics in mic	ro- and nanomanufact		n						
(Next time in Spring 2025)										
Ē	MICRO-724	EDMI	Brugger Böhringer Mastrangeli Perez-Murano	Multiple	2					
Design and Optimization of Internet-of-Things Systems (Next time: Fall 2024)										
E	EE-733	EDEE	Aminian Atienza Alonso Burg	Oral presentation	4					
Flectroc	hemical nano-h	bio-sensing and bio/CM	-							
(June 10-	14, 2024)		_							
E	MICRO-614	EDMI ireless Smart Systems	Carrara	Project report	1					
) 12, 2024)	ireless Smart Systems								
E	MICRO-617	EDMI	Burg Dehollain Maloberti Skrivervik	Multiple	3					
	aterials Proces	•								
E	MSE-662	EDMX	Hoffmann Leinenbach	Oral	2					
	e Learning for E e: Fall 2023)	ngineers								
E	EE-613	EDEE	Calinon Canévet Odobez Villamizar	Multiple	4					
	idics for lab-on e: May 22-24, 2024									
E	MICRO-706	EDMI	Le Gac de Malsche	Term paper	1					
Micro-magnetic field sensors and actuators (June 11th to 13th, 2024)										
È	MICRO-602	EDMI	Boero	Oral	1					
Modelling micro-/nano- field effect electron devices (May 21, 24, 28 & 31 from 10h15 to 12h / June 4 from 10h15 to 12h / June 7 from 10h15 to 12h and 14h15 to 16h)										
E	MICRO-623	EDMI	Sallese	Written	1					
MOOC: Micro and Nanofabrication (MEMS) (September 18 to November 19, 2023 - Online course (self-paced))										
E	MICRO-621	EDMI	Brugger Gijs	Oral	1					

Nanoscale MOSFETs and beyond CMOS devices

(Next time in Autumn 2025)									
E	MICRO-611	EDMI	lonescu Zota	Oral	1				
Optical MEMS and micro-optics (November 14th to 17th, 2023 (Microcity, Neuchatel))									
F	MICRO-605	EDMI	Ataman	Written	1				
Research seminars in Electrical Engineering - FALL (Next time: Fall 2024)									
E	EE-625(a)	EDEE	Choo Fleury Matioli	Oral presentation	1				
Research seminars in Electrical Engineering - SPRING (Next time: Spring 2024)									
E	EE-625(b)	EDEE	Choo Fleury Matioli	Oral presentation	1				
Scaling in MEMS (4-day course - from August 28 to August 31, 2023. Room Microcity MC B1 273)									
E	MICRO-606	EDMI	Shea	Oral presentation	1				
Soft Microsystems Processing and Devices (Next edition in February 2026 (exam in March 2026))									
Ē	MICRO-618	EDMI	Briand Brugger Lacour Leterrier Shea Subramanian	Multiple	2				
Thin film and small scale mechanics (Next time: November 7-10, 2023)									
E	MSE-669	EDMX	Michler Schwiedrzik	Written	2				
Wearables and implantables for personalized and preventive healthcare (February 5-9, 2024)									
E	MICRO-624	EDMI	lonescu Locca Tevaearai Stahel	Written	2				