

List of English Courses
Polytech'Nice Sophia
ELEC Department
Specialisation programmes only

GSE - Embedded Systems Engineering

Teaching Unit Reference	Sem.	ECTS	English	Teaching Unit	Lecturer
EP5EUE11 Modeling/Executive system	9	2	YES	UML modeling of embedded systems	L. Apvrille (24h)
		2	NO	Real-Time Operating Systems	E. Dekneuveil (24h)
		2	YES	Embedded Linux	S. Bilavarn (24h)
EP5EUE12 Smart cards and robotics engineering	9	2	YES	Smart card technology	Mazoyer (24h)
		2	YES	Robotics engineering	G. Ducard (22h) Andrew Comport (2h)
EP5EUE13 Design and verification	9	2	NO	System-on-Chips	C. Belleudy (18h) D. Ramonda (6h)
		2	NO	RTL design	E. Dekneuveil (27h)
		2	YES	Verification of integrated circuits	F. Cerisier (24h)
EP5EUE14 Transmission circuits and protocols	9	2	NO	Circuits and protocols for telecom	E. Dekneuveil (15h) S. Bilavarn (9h)
		2	NO	Field communications networks	G. Bussignie (24h)
EP5EUE15 SystemC	9	3	NO	SystemC	F. Muller (48h)
EP5EUE16 Project	9	3	NO	GSE project	E. Dekneuveil (15h) F. Muller (9h)
EP5EUE17 IMP	9	4	NO	IMP (Engineer and its environment)	C. Bachelot (19,5h) MELLET Anne-Marie (12h) BONNOT Jean-Pierre (29h) MARCHYLLIE Didier (28,5h) ANGELI Jean-Marc (18h)
				LV2 (second language)	
				Technician internship	

TNS - Digital Signal Processing

Teaching Unit Reference	Sem.	ECTS	English	Teaching Unit	Lecturer
EP5EUE30 Theoretical basis	9	3	YES	Compression	M. Antonini (40h)
		1,5	YES	Learning	J. Rendas (20h)
		1,5	?	Modeling and Filtering	G. Favier (20h)
		3	YES	Audio and speech coding	J. Lebrun (40h)
EP5EUE32 DSP applications	9	3	YES	Digital image processing	X. Descombes (11h) L. Blanc-Feraud (10h) F. Lafarge (9h) A. Zubiolo (10h)
		3	YES	Biomedical signal processing	V. Zarzoso (20h) O. Meste (20h)
		1,5	?	Radar	JM Lopez (20h)
		1,5	YES	Mobile telephony	F. Tomatis (20h)
EP5EUE36 DSP & Implementation	9	2	YES	DSP	L. Deneire (71h)
		3	YES	Project	J. Piasecki (22h)
		3		??	Escato (3h)
EP5EUE37 IMP	9	4	NO	IMP (Engineer and its environment)	C. Bachelot (19,5h) MELLET Anne-Marie (12h) BONNOT Jean-Pierre (29h) MARCHYLLIE Didier (28,5h) ANGELI Jean-Marc (18h)
				LV2 (second language)	
				Technician internship	

CCS - Design of Electronic Circuits and Systems

Teaching Unit Reference	Sem.	ECTS	English	Teaching Unit	Lecturer
EP5EUE21 Mixt circuits	9	6	YES	Mixt circuits	G. Jacquemod (9h) C. Peter (66h)
		2	YES	RF Microelectronics	G. Jacquemod (31,5h)

EP5EUE22 RF electronics	9	2	YES	Analog CMOS	Y. Leduc (36h)
		2	YES	RF spectrum	F. Ferrero (15h)
		2	YES	Circuit testing (CNFM)	M. Thomas (33,75h) B. pradarelli (33,75h)
EP5EUE23 Digital electronics	9	3		SoC	F. Muller (18h)
		3	NO	Design/verification	B. Nicolle (28,5h)
EP5EUE27 System integration	9	1	YES	ADS	Ferrero (18h)
		1,5	YES	Low power Design	H. Barthélémy (22,5h)
		1,5	YES	Sensor networks	B. Nicolle (14h) C. Jacquemod (5h)
EP5EUE25 Industry conferences		2	YES	SAME, Cadence, Infineon, LETI, Alcatel Alenia Space, Labview ...	artinian armand (4,5h) omedes (4,5h) Vial Jean christophe 4,5h) Munck paul arthur (4,5h) vladimirescu andrei (4,5h) sawan mohamed (3h)
EP5EUE26 IMP	9	4	NO	IMP (Engineer and its environment)	C. Bachelot (19,5h) MELLETT Anne-Marie (12h) BONNOT Jean-Pierre (29h) MARCHYLLIE Didier (28,5h) ANGELI Jean-Marc (18h)
				LV2 (second language)	
				Technician internship	

TR - Networks and Telecommunication

Teaching Unit Reference	Sem.	ECTS	English	Teaching Unit	Responsible
EP5EUE41 Networks	9	2	NO	Network design	B. MAZADE (21h)
		4	YES	Telecom networks	B. MAZADE (6h) S. BRULHART (10,67h) JL GELARD (10,67h) D. GODARD (21h)
EP5EUE42 Wireless Telecom	9	1,5	NO	Wireless telecommunications	H. GARCIA (18,75h)
		2,5	NO	Mobile communication	M. HENNETIER (15h) D. LAMUREY (16,5h)
		1	NO	Computer science theory	R. Staraj (18,75h)
		1	NO	Antennas	R. Staraj (18,75h)
EP5EUE43 Computer science and telecommunication	9	1	NO	Computer telecommunications	H. GALIANO (21h)
		2	YES	Java	V. Granet (35h)
EP5EUE44 Circuits and protocols	9	1	YES	Telecom circuits	S. Bilavarn (12h)
		1	NO	SDH-PDH-ADSL-RNIS	F. MARTINEZ (12h)
		1	YES	Full IP	Nicolas Dreher (9h)
EP5EUE45 CAD -Measures - Tests	9	1	YES	CAO HP-ADS	F. Ferrero (15h)
		1	YES	TP Telecoms	Iannis Aliféris (15h)
EP5EUE46 RF Microelectronics	9	2	YES	RF microélectronics	G. Jacquemod (31,5h)
		1	YES	RF Spectrum	W. Tatinian (15h)
EP5EUE47 Telecom miniprojects	9	1	YES	Telecom project	F. Ferrero (21h) R. Staraj (4h)
		1	YES	RFID project	C. LOUSSERT (12h)
		1	YES	Spatial application project	A. KHAMMOUNI (18h)
EP5EUE48 IMP	9	4	NO	IMP (Engineer and its environment)	C. Bachelot (19,5h) MELLETT Anne-Marie (12h) BONNOT Jean-Pierre (29h) MARCHYLLIE Didier (28,5h) ANGELI Jean-Marc (18h)
				LV2 (second language)	
				Technician internship	