

Computer Science

Fall semester (sept - feb) 2nd year of Master

Teaching Units	Teaching modules	Code		ECTS		
			Course	Practical Work	Total	
Languages	French as a foreign language		20		20	5
Personal Research Project	Writing Report Oral Defense					10

Group projects and a	ndvanced technologies					
	Industrial project Management	3LMC16		15	15	· · · · · · · · · · · · · · · · · · ·
	Industrial project	3IAP3		30	30	10
	Intensive project	3IAP2		45	45	1
	Transmission of Information : Compression, Coding	3IB3	25		25	ı
		Total	25	90	115	10

Students cannot simultaneously choose modules inside the units "Image, Sound and Artificial Intelligence" and "E- payment and Computer Security".

Image, Sound and Ar	tificial Intelligence					
Image, Sound and multimedia	Pattern Recognition *	3IE1	22	8	30	
	Image and Sound Processing *	3ID2	38	18	56	
	Computer Generated Imagery	3ID4	12	14	26	
	Virtual Reality	3ID4	6	6	12	10
	Automatic Generation of Image; Style Transfer	3IE6	5	8	13	
	Image Intensive Project	3IE4		6	6	
		Total	83	60	143	10
Artificial intelligence	Tools for Deep Learning	3IE5	9	8	17	
	Data Mining	3IE3	14	6	20	5
	Machine learning *	3IE2	22	8	30	
		Total	45	22	67	5

^{*}Courses in italics may partly or completely be taught in French with slides, handouts and examinations in English



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Computer Security	Embedded cryptography *	3IG1	12	24	36	
	Digital identity	3IG2	20	12	32	
	Information System security *	3IG4	20	16	36	10
	Advanced networks: security and performance	3IAP1	10		10	
	Biometry *	3IMR2 20	20		20	
		Total	82	52	134	10
E-payment	E-payment flows *	3IF5	14	12	26	
	E-payment components *	3IF4	12	3	15	
	Risk management and PCI-DSS *	3IF6	10		10	5
	Contactless transactions	3IF7	11	12	23	
	E-payment architectures *	3IF8	10	8	18	
		Total	57	45	102	5

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