

ECOLE NATIONALE SUPERIEURE D'ELECTRICITE ET DE MECANIQUE 2, Avenue de la Forêt de Haye 54500 Vandoeuvre-lès-Nancy	Academic year 2025-2026 Synthetic curriculum 2025-2026 ISN_FISA	
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Semester S5	
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Code	Course Unit	ECTS	Code	Course	Coeff	Teacher	Vol	CM	TD	TP	
8JUAIN01	Information science	9	5JEAIN10	Modeling of Signals, Systems and Link Graphs	0,33	V. Louis-Dorr	36	19	7	10	
			5JEAIN11	Programming and Algorithms	0,33	?	36	11	10	15	
			5JEAIN12	Discrete Mathematics	0,33	J.-F. Pétin	40	22	18	0	
5JUAIN02	Engineering Sciences 1	6	5JEAIN20	Foundations of mathematics for engineers	0,3	V. Lecuyer	49	20	29	0	
			5JEAIN21	Transformation & complex analysis	0,2	V. Lecuyer	31	16	15	0	
			5JEAIN22	Analytical Modeling in Mechanics and Electricity	0,3	S. Dufour	40	20	20	0	
			5JEAIN23	Electrical Circuits and Applications	0,2	M.Hinaje	40	18	14	8	
			5JEAIN24	Energy efficiency and sustainable development	pass/fail	T. Boileau	6	6	0	0	
5JUAIN03	Humanities 1	5	5JEAIN30	English 1	0,3	S. Gallaire	24	0	24	0	
			5JEAIN31	second foreign language-1 English support	0,3	S. Gallaire	24	0	24	0	
			5JEAIN32	Project management	0,2	J.-C. Marpeau	10	0	10	0	
			5JEAIN33	Communication 1	0,2	A. Thimon	16	0	16	0	
			5JEAIN34	Workplace Safety 1	pass/fail	T. Boileau	8	8	0	0	
			5JEAIN35	French language clearance 1	pass/fail	In Quesada	1	0	1	0	
5JUAIN04	S5 Company	10		Technical competence							
				Methodological competence							
				Interpersonal skills							
			5JEAIN40	Report 1A							

Semester S6	
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Code	Course Unit	ECTS	Code	Course	Coeff	Teacher	Vol	CM	TD	TP
6JUAIN01	Applied Sciences and Technology		6JEAIN10	Automatic - Dynamics and Control of Systems	0,22	J. Daafouz	36	14	7	15
			6JEAIN11	Algorithmics and Object-Oriented Programming	0,22	T. Docquier	30	7	5	18
		9	6JEAIN12	Database	0,13	?	18	6	3	9
			6JEAIN13	Algorithms and data structures	0,2	Y.-Q. Song	27	9	6	12
			6JEAIN14	System Design Office	0,22	V. Louis-Dorr	50	0	0	50
6JUAIN02	Engineering Sciences 2		6JEAIN20	Numerical analysis	0,33	V. Lecuyer	31	16	15	0
		6	6JEAIN21	Probability and statistics	0,33	A. Gueudin	22	10	12	0
			6JEAIN22	Dynamics of Energy Systems & Applied Kinematics	0,33	B. Remy	30	10	8	12
6JUAIN03	Humanities 2		6JEAIN30	English 2	0,3	S. Gallaire	32	0	32	0
			6JEAIN31	second foreign language-2 English support	0,3	S. Gallaire	24	0	24	0
		5	6JEAIN32	Business environment	0,2	F. Tamsamani	10	10	0	0
			6JEAIN33	Communication 2	0,2	A. Thimon	12	0	12	0
			6JEAIN34	Workplace Safety 2	pass/fail	T. Boileau	3,5	3	0	0,5
			6JEAIN35	French language clearance 2	pass/fail	A. Quesada	1	0	1	0
6JUAIN04	S6 Company	10		Technical competence						
				Methodological competence						
				Interpersonal skills						
			6JEAIN40	Defense 1A			0,5	0	0,5	0

Semester S7	
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Code	Course Unit	ECTS	Code	Course	Coeff	Teacher	Vol	CM	TD	TP
?	Modeling and piloting of systems	?		Modeling, control and evaluation of DES (Discrete Event Systems)	0,3	J.-F. Pétin	36	12	8	16
		?		Static optimization	0,14	P. Riedinger	18	8	10	0
		6	?	Nonlinear Systems and Robustness	0,28	J. Daafouz	34	20	6	8
		?		Dynamic Optimization	0,14	P. Riedinger	18	8	10	0
		?		Data analysis	0,14	R. Ranta	16	8	8	0
?	Computer science and signal processing	?		Software Analysis and Design	0,23	H. Cirstea	40	20	6	14
		?		Algorithms and complexity	0,1	V. Chevrier	20	10	10	0
		9	?	Transmission of Information	0,17	V. Louis-Dorr	36	16	4	16
		?		Signal Processing	0,17	D. Wolf	36	20	4	12
		?		Computer networks	0,17	YQ Song	18	6	2	10
		?		System programming and C language	0,16	?	18	6	0	12
7JUPPN03	Humanities 3	7JEPPN30		English Preparation Certification B2	0,4	C. Corringer	24	0	24	0
		5	7JEPPN31	second foreign language-3 English support	0,3	C. Corringer	24	0	24	0
			7JEPPN32	Communication 3	0,3	A. Thimon	20	0	20	0
?	S7 Company	10		Technical competence Methodological competence Interpersonal skills Report 2A						

