

		CM	TD	TP	CI	TE	Total	Coef
ENGLISH (2 ECTS)							32	
English	CCI - CIEL		32,0				32	1
ECONOMIC AND SOCIAL SCIENCES (2 ECTS)							39	
Capacity to speak in public	R.Christophe	7					7	-
Communication - meeting management	R.Christophe	14					14	1
Written and oral communication	D. George				6	8	14	1
Synthesis reports			1,0			4	5	1
COMMON BASE (LEVELING) (7 ECTS)							104	
Procedure programming, C language	A. Lallement	2		8	18		28	3
Maths for engineer 1	D. George	22					22	2
Maths for engineer 2	J. Dellinger	18					18	2
Base of electrotechnic	E. Lorrain	18					18	2
Signals and systems	F. Imbert				18		18	2
ENGINEERING SCIENCES (6 ECTS)							82	
Numerical electronics	F. Anstotz, H. Berviller, V. Frick	34		20			54	3
Matlab	B. Gomes				8		8	-
LabVIEW	J. Dellinger, J. Rehbindler				18		18	1
Fablab presentation	B. Gomes, N. Dumas	2					2	-
COMPUTER SCIENCE (6 ECTS)							110	
Unix for users	F. Fabian, V. Thorel			16	8		24	1
Object oriented programming, C++ language	A. Lallement	12	6,0	20	2		40	3
Automatism	J. Nave	6	8,0				14	1
Computer networks 1	V. Krebs, P. Geissert	16		16			32	1
COMPANY (7 ECTS)							0	
<i>Do not compensate with other courses</i>								
Discover the company	Tuteurs entreprise							-

		CM	TD	TP	CI	TE	Total	Coef
ENGLISH (2 ECTS)							64	
English	CCI - CIEL		64,0				64	1
ECONOMIC AND SOCIAL SCIENCES (2 ECTS)							28	
Introduction to safety	S. Blum	14					14	1
Engineer ethics	C. Poloce-Winter	10					10	1
Synthesis reports	Etudiants		6,0			4	10	1
ANALOGICAL SCIENCES (6 ECTS)							90	
Continuous time systems	E. Laroche, I. Bara, B. Gomes	14	12,0	16			42	3
Analogue electronic and commutation transistor	J.B. Kammerer, P. Twardowski	16		12			28	2
Electric machines	E. Lorrain	20					20	1
HARDWARE DIGITAL SCIENCES (7 ECTS)							118	
Numerical analysis	C. Doignon	28		10			38	2
Conception numerical chain	B. Gomes	2	4,0	12			18	2
Sensors, physics and IoT	V. Schuh, J. Dellinger	12	6,0	12			30	3
Microcontroller architecture	F. Anstotz	16		16			32	3
SOFTWARE DIGITAL SCIENCES (6 ECTS)							76	
Java programming	A. Habet, L. Cuvillon	12		16			28	1
Signal processing 1	V. Mazet	20		12			32	2
KiCad/NGSpice, PCB realisation	J-B. Kammerer		16,0				16	1
COMPANY (7 ECTS)							0	
<i>Do not compensate with other courses</i>								
Integrating new tasks within the company	Tuteurs entreprises							-

N : niveau.

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		CM	TD	TP	CI	TE	Total	Coef
ENGLISH (2 ECTS)							34	
English	CCI-CIEL		34,0				34	1
ECONOMIC AND SOCIAL SCIENCES (3 ECTS)							59	
Intellectual property	P. Borne	9					9	-
Industrial marketing	C. Corvasce	16					16	1
Synthesis reports			6,0			4	10	1
End of 1st year report						30	30	2
ENGINEERING SCIENCES (9 ECTS)							142	
Signal processing 2	V. Mazet	18		24			42	3
Microcontroller 1	F. Anstotz	16		16			32	2
Automatic 2 : regulation	E. Laroche, H. Omran, V. Schuh, ...	12	4,0	16			32	2
Automatic 3 : advanced command	S. Theodoulis	12		8			20	1
KiCad/NGSpice, PCB realisation	J-B Kammerer		16,0				16	1
COMPUTER SCIENCE (7 ECTS)							106	
Unix user	F. Fabian, V. Thorel			16	8		24	2
C# programming	A. Lallement	8		8	16		32	3
Computer networks 2	S. Beaux	10		12			22	2
Database management	F. Fabian			16	12		28	2
COMPANY (9 ECTS)							0	
<i>Do not compensate with other courses</i>								
Responsibilities in a company	Tuteurs entreprises							-

		CM	TD	TP	CI	TE	Total	Coef
ENGLISH (2 ECTS)							32	
English	CCI - CIEL		32,0				32	1
ECONOMIC AND SOCIAL SCIENCES (2 ECTS)							15	
Taking speech in public	R.Christophe	7					7	-
Company presentation	Etudiants		4,0			4	8	1
Synthesis reports	Etudiants		6,0			4	10	1
ENGINEERING SCIENCES (7 ECTS)							120	
Sensors, physics and IoT	V. Schuh, J. Dellinger	12	6,0	12			30	2
Design of embedded systems using FPGA	F. Dadouche	6	4,0	16			26	1
Microcontroller 2	M. Madec	10		20			30	2
Embedded and real time systems	L. Cuvillon	14		20			34	3
ENGINEER PROJECT (5 ECTS)							139	
<i>Do not compensate with other courses</i>								
Project management	F. Bacher	20					20	1
Project	D. George, Encadrants (porteurs) ...		85,0			40	125	-
Project presentations	D. George, Encadrants (porteurs) ...		8,0			1	9	4
COMPUTER SCIENCE (5 ECTS)							86	
System programming	A. Habet				24		24	1
Multitask programming	C. Doignon	16		20			36	1
Computer security	J-M. Muller	10		16			26	1
COMPANY (9 ECTS)							0	
<i>Do not compensate with other courses</i>								
Strengthening and inovating within the company	Tuteurs entreprises							-

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		CM	TD	TP	CI	TE	Total	Coef
ENGLISH (0 ECTS)								57
English seminars	CCI - CIEL		57,0				57	-
ECONOMIC AND SOCIAL SCIENCES (3 ECTS)								83
Sustainable development and company responsibility	G. Burgart	19					19	1
Initiation to quality	E. Bosch	14					14	1
Production management	D. Gond	16					16	1
Synthesis reports			6,0			4	10	1
End of 2nd year report						30	30	2
COMPANY FUNCTIONNING (4 ECTS)								84
Company rights	K. N'Diaye	14					14	1
Management	G. Giovannello	28					28	1
Entrepreneurship	P. Baillard, K. Meyer, P. Gaden, ...	6	6,0				12	-
Human resources management	O. Milano	14					14	1
Financial techniques	D. Grampp	16					16	1
FUTUR OF INDUSTRY (8 ECTS)								156
Robotic and cobotic	J-P. Le Normand	2			36		38	2
Image processing and industrial vision	C. Doignon, C. Bizouard	18	8,0	16			42	2
Computer system administration	F. Fabian, V. Thorel			12	10		22	1
Android programming	G. Ebert	4			20		24	1
Machine learning	T. Lampert	14	16,0				30	1
COMPANY (15 ECTS)								2
<i>Do not compensate with other courses</i>								
End of study internship subject	Tuteurs entreprises						0	1
End of study internship formation	D. George	2					2	-
		CM	TD	TP	CI	TE	Total	Coef
END OF STUDY INTERNSHIP (30 ECTS)								600
Problem analysis, solution proposition	Jury d'audition							1
Investment and engagement in the project	Jury d'audition							1
Respect of specifications and objectives	Jury d'audition							1
Communication, deliverables, timing	Jury d'audition							1
Environmental and societal stakes	Jury d'audition							1

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