

Semestre 1						
Code	Course	ECTS	Lecture	Exercices	LAB	Total
LS1ALGE	Algebra I (CE-MIE-CCNE-BC)	3	15	15		30
LS1ANAL	Calculus I (CE-MIE-CCNE-BC)	4	18	27		45
LS1CILO	Logic Circuits	4	15	18	12	45
LS1DETI	Drafting	2			30	30
LS1ELMA	Electricity and Magnetism	4	15	21	9	45
LS1FRAN	English (CE-MIE-CCNE-BC)	2		30		30
LS1MECA	Mechanics I	4	15	21	9	45
LS1THER	Thermodynamics	3	9	15	6	30
LS1TFME	Technology of Mechanical Manufacturing	3	9	15	21	45
Total	9	29	96	162	87	345

Semestre 2						
Code	Course	ECTS	Lecture	Exercices	LAB	Total
LS2ALGE	Algebra II (CE-MIE-CCNE-BC)	3	15	15		30
LS2AGPG	Algorithmic and Programming	5	18	21	21	60
LS2ANAL	Calculus II (CE-MIE-CCNE)	4	18	27		45
LS2DRHO	Human Rights (CE-MIE-CCNE-BC)	2	30			30
LS2ELAN	Analog Electronics I (MIE-CCNE)	4	15	18	12	45
LS2MEFL	Fluid Mechanics	3	9	12	9	30
LS2MECA	Mechanics II	3	12	18		30
LS2PUEL	Electric Power	4	15	18	12	45
LS2TRTH	Heat Transfer	3	9	12	9	30
Total	9	31	141	141	63	345

Semestre 3						
Code	Course	ECTS	Lecture	TD	LAB	Total
LS3ANAL	Calculus III (MIE-CCNE)	3	12	18		30
LS3ANGL	Foreign Languages (French) (CE-MIE-CCNE-BC)	2		30		30
LS3DAOR	Computer Aided Drafting	2			30	30
LS3ELPU	Power Electronics	4	15	15	15	45
LS3MAEL	Machines and Electrical Actuators I	5	21	24	15	60
LS3RDMA	Strength of Materials	4	12	18	15	45
LS3STPR	Statistics and Probability (CE-MIE)	4	18	27		45
LS3TCDM	Technology and Material Testing	3	9	15	6	30
LS3THPN	Pneumatic and Hydraulic Technology	3	9	12	9	30
Total	9	30	96	159	90	345

Semestre 4						
Code	Course	ECTS	Lecture	TD	LAB	Total
LS4CIPR	Programmable Circuits (MIE-CCNE)	4	12	15	18	45
LS4COAO	Computer Aided Design	2			30	30
LS4EXCO	Expression and communication (CE-MIE-CCNE-BC)	2		15	15	30
LS4MOCN	Numerically Controlled Machine Tool	4	12	15	18	45
LS4MAAE	Machines and Electrical Actuators II	4	12	18	15	45
LS4MATH	Thermal Machines	3	9	15	6	30
LS4MENU	Numerical Methods	3	12	15	18	45
LS4TEMM	Technology and Mechanical Maintenance I	4	12	15	18	45
LS4AULI	Linear Control (MIE-CCNE)*	4	12	15	18	45
LS4SYEX	Operating Systems (MIE-CCNE)*	4	15	15	15	45
Total	9	30	96	138	171	360

Semestre 5						
Code	Course	ECTS	Lecture	TD	LAB	Total
LS5ENPR	Professional Environment	4	12	15	18	45
LS5ININ	Industrial Computing I	3	9	9	12	30
LS5ORGM	Maintenance Organization	4	15	18	12	45
LS5PDEE	Electric Power Production and Distribution	3	9	9	12	30
LS5TMM	Technology and Electrical Maintenance	4	12	18	15	45
LS5TEMM	Technology and Mechanical Maintenance II	4	12	15	18	45
LS5TEMT	Technology and Thermal Maintenance	3	9	12	9	30
LS5GEPR	Production Management*	4	12	18	15	45
LS5PRVH	VHDL Programming (MIE-CCNE)*	4	15	15	15	45
Total	8	29	105	129	126	315

Semestre 6						
Code	Course	ECTS	Lecture	TD	LAB	Total
LS6DRGT	Internship (14 semaines)	6				
LS6PFDE	Senior Project (≈ 180h/étudiant-projet)	12			180	180
LS6DRGT	General and Labor Law (CE-MIE-CCNE-BC)	1	15			15
LS6CSEF	Structural Calculations by Finite Element (CE-MIE)*	3	9	12	9	30
LS6LOGI	Logistics*	3	9	12	9	30
LS6MDMC	Continuum Mechanics*	3	9	12	9	30
LS6SYTH	Thermal System*	3	9	12	9	30
LS6ENRE	Renewable Energy*	3	9	12	9	30
LS6GEQU	Quality Management (CE-MIE)*	3	9	12	9	30
LS6ININ	Industrial Computing II*	3	9	12	9	30
LS6TRIN	Information Processing*	3	9	12	9	30
Total	7	31	51	48	216	315

* : Elective Courses - ECTS : European Credit Transfert and accumulation System

Total ECTS :	180
Total Hours :	2025