MECHANICAL ENGINEERING

BACHELOR

Génie mécanique

SEMESTER 1 — 30 ECTS

INTERCULTURAL EDUCATION 1			
	Foreign Languages 1	4	48 h
	Intercultural Management 1	2	24 h
ENGLISH 1			
	English 1	3	36 h
BASIC TEACHINGS 1			
	Algebra 1	2	24 h
	Analysis 1	2	24 h
	VBA Programming in Excel	2	24 h
ENGINEERING 1			
	Statics	4	42 h
	Strength of Materials 1	2	20 h
ENGINEERING 2			
	Introduction to Electronics and Energetics Engineering	2	24 h
	Basic Mechanics 1	4	48 h
MECHANICAL ENGINEERING 1			
	Mechanical Systems Technology	1	12 h
	Process Discovery	2	34 h

SEMESTER 2 — 30 ECTS

INTERCULTURAL EDUCATION 2			
	Foreign Languages 2	4	48 h
	Intercultural Management 2	2	24 h
ENGLISH 2			
	English 2	3	36 h
BASIC TEACHINGS 2			
	Analysis 2	2	24 h
	Algebra 2	2	24 h
	Programming in C	2	24 h
ENGINEERING 3			
	Theory of Oscillations and Electrical Circuits	3	32 h
	Strength of Materials 2	3	48 h
MECHANICAL ENGINEERING 2A			
	Technical Drawing and CAD	4	48 h
	Basic Mechanics 2	2	20 h
MECHANICAL ENGINEERING 2B			
	Project Work	3	32 h

SEMESTER 3 — 29 ECTS

FOREIGN LANGUAGES AND INTERCULTURAL EDUCATION 3			
	Foreign Languages 3	4	4 SWS
	English 3	2	2 SWS
	Intercultural Management 3	2	2 SWS
ENGINEERING SCIENTIFIC APPLICATION I			
	Applied measurement technology	4	4 SWS
	Reciprocating engines and Turbomachinery	5	4 SWS
ENGINEERING SCIENTIFIC APPLICATION II			
	CAD Technology	4	4 SWS
	Fundamentals of production engineering	3	3 SWS
SPECIALIZATION 2			
	Optional Modules	5	4 SWS

SEMESTER 4 — 31 ECTS

FOREIGN LANGUAGES AND INTERCULTURAL EDUCATION 4			
	Foreign Languages 4	4	4 SWS
	English 4	2	2 SWS
	Intercultural Management 4	2	2 SWS
BASIC PRINCIPLES OF ENGINEERING SCIENCES 1			
	Thermodynamics	5	4 SWS
	Fluid Mechanics	5	4 SWS
BASIC PRINCIPLES OF ENGINEERING SCIENCES 2			
	Fluid Mechanics	5	4 SWS
	Dynamics	5	4 SWS
SPECIALIZATION 3			
	Project, Presentation and Report	3	3 SWS

SEMESTER 5 — 30 ECTS

FOREIGN LANGUAGES 5			
	Foreign Languages 5	4	48 h
	English 5	2	24 h
PROJECT MANAGEMENT			
	Project Management	6	78 h
BASIC TEACHINGS 5			
	Continuum Mechanics	2,5	42 h
	Tensor Calculus	1,5	18 h
	Databases	2	28 h
MECHANICAL ENGINEERING 5			
	Processes and Industrialization	3	30 h
	Mechanism Design	1,5	16 h
	Dimensioning of Mechanisms	1,5	14 h
	Industrial Automation	3	30 h
APPLICATIONS OF ENGINEERING SCIENCES			
	Applications of Engineering Sciences	3	30 h

SEMESTER 6 — 30 ECTS

INTERNSHIP			
	Internship	15	10 Wo.
DEGREE THESIS AND GRADUATION SEMINAR			
	Bachelor Thesis	12	12 Wo.
	Bachelor's Degree Graduation Seminar	3	3 SWS

🇫🇷 : UL (Université de Lorraine). 🇩🇪 : htw saar (Hochschule für Technik und Wirtschaft des Saarlandes). Hourly volumes: per week in Germany (SWS), total in France (h).

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