



MECHANICAL ENGINEERING

BACHELOR

Génie mécanique



INTERCULTURAL EDUCATION 1

Foreign Languages 1	4	48 h
Intercultural Management 1	2	24 h

ENGLISH 1

English 1	3	36 h
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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



INTERCULTURAL EDUCATION 2

Foreign Languages 2	4	48 h
Intercultural Management 2	2	24 h

ENGLISH 2

English 2	3	36 h
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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
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FOREIGN LANGUAGES AND INTERCULTURAL EDUCATION 3

Foreign Languages 3	4	4 SWS
English 3	2	2 SWS
Intercultural Management 3	2	2 SWS

BASIC PRINCIPLES OF ENGINEERING SCIENCES 1

Applied Mathematics	5	5 SWS
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SPECIALIZATION 1

Materials Technology	3	3 SWS
Casting Technologies	3	2 SWS

SPECIALIZATION 2

Optional Module	4	4 SWS
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CONSTRUCTION 1

Mechanical Machine Components	3	2 SWS
CAD Technology	4	4 SWS



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 2

Advanced Mechanics	2	2 SWS
Thermodynamics	4	4 SWS

CONSTRUCTION 2

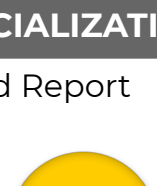
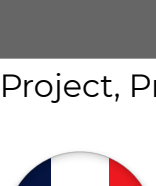
Engineering Design	6	5 SWS
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SPECIALIZATION 3

Fluid Mechanics	5	4 SWS
Reciprocating engines and Turbomachinery	2	2 SWS

SPECIALIZATION 4

Project, Presentation and Report	3	3 SWS
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FOREIGN LANGUAGES 5

Foreign Languages 5	4	48 h
English 5	2	24 h

PROJECT MANAGEMENT

Project Management	3	48 h
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BASIC TEACHINGS 5

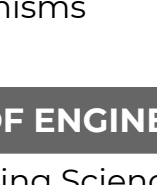
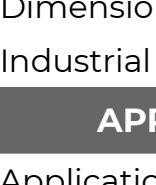
Continuum Mechanics	4	42 h
Tensor Calculus	2	18 h
Scientific Tools in Mathematics and Numerical Modelling	1,5	32 h
Scientific Tools in Mathematics and Numerical... (Practicum)	1,5	28 h

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
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INTERNSHIP

Internship	15	10 Wo.
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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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