



# ELECTRICAL ENGINEERING

BACHELOR

Ingénierie des systèmes intelligents communicants et énergies



## 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
Introduction to Electronics and Energetics Engineering	2	24 h

## COMPUTER ENGINEERING 1

VBA Programming in Excel	2	24 h
Advanced VBA Programming	2	24 h
Command Line Interface	2	24 h

## ELECTRICAL ENGINEERING 1A

Electrical Circuits	3	28 h
Practical Electrical Circuits	3	24 h

## ELECTRICAL ENGINEERING 1B

Electrostatics and Magnetostatics	2	36 h
Industrial Information Technology	1	20 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
Measurement, Instrumentation, Sensors	2	18 h

## COMPUTER ENGINEERING 2

Programming in C	2	24 h
Introduction to Digital Systems	4	48 h

## ELECTRICAL ENGINEERING 2

Theory of Oscillations and Electrical Circuits	3	32 h
Fundamentals of Electronics	3	42 h

## APPLIED PHYSICS

Geometric Optics and Thermodynamics	3	40 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

## MATHEMATICS

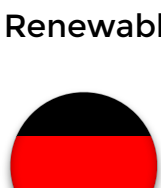
Applied Mathematics	4	4 SWS
Statistics 1	2	2 SWS

## COMMUNICATION TECHNOLOGY

Programming of Microcontroller Systems	2	2 SWS
Fundamentals of Transmission Technology	3	3 SWS
Microcontrollers and Applications 1	3	3 SWS

## ELECTRONICS AND ENERGY

Electronic Devices and Circuits	4	4 SWS
Renewable Energies	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

## ELECTRICAL ENERGY SYSTEMS

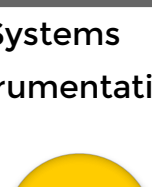
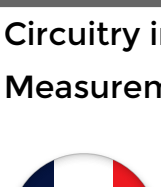
Statistics 2	2	2 SWS
Electrical Energy Systems	6	6 SWS

## EMBEDDED SYSTEMS

Programming in C++	4	4 SWS
Microcontrollers and Applications 2	4	4 SWS

## ELECTRONIC SYSTEMS

Circuitry in Electronic Systems	4	4 SWS
Measurement and Instrumentation	4	4 SWS



## FOREIGN LANGUAGES 5

Foreign Languages 5	4	48 h
English 5	2	24 h

## COMPUTER SCIENCE AND VIRTUAL INSTRUMENTATION

Mobile Device Programming	3	50 h
Labview Programming	1,5	21 h
Practical Work on Virtual Instrumentation	1,5	24 h

## COMPLEX SYSTEMS

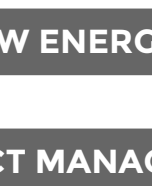
Automatic	3	33 h
Case Study	2	12 h
Digital Filtering	2	23 h
Control of Digital Systems	2	22 h

## NEW ENERGIES

New Energies	3	30 h
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## PROJECT MANAGEMENT

Project Management	6	78 h
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## ELECTRICAL POWER ENGINEERING AND FEEDBACK... TECHNOLOGY

System Theory and Feedback Control Technology	5	4 SWS
Photovoltaics	3	2 SWS

## SYSTEMS ENGINEERING

Industrial Control Technology	2	2 SWS
Practical Course in Systems Engineering	6	6 SWS

## DEGREE THESIS

Bachelor Thesis	12	12 Wo.
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🇫🇷 : UL (Université de Lorraine). 🇩🇪 : htw saar (Hochschule für Technik und Wirtschaft des Saarlandes). Hourly volumes: per week in Germany (SWS), total in France (h). Database, design and development by Aristide Grange, computer science teacher at ISFATES. Laurel wreath from Dalovar [CC0], via Wikimedia Commons. Generated by PlotDevice (2022-02-17 23:34:16).

