

## Courses overview - 2024-2025

### 4th year (E4/B4/Master)

### Semester 1 - Period 1 (September - October)

Code	Course Title	Time Slot	ECTS	Language
AIC-4101A	Introduction to cybersecurity	A	3	EN
AIC-4101C	Machine Learning	C	3	EN
BIO-4103C	Biosensors and medical instrumentation	C	3	EN
CYB-4102C	Advanced Linus Operating System	C	3	EN
INF-4102B	(Algo 1) Algorithm Design	B	3	EN
MSH-4102D	Intercultural management and communication	D	2	EN
OBL-4101	Traitement du signal / Signal processing	F	3	EN
OUAP-4116	Optoelectronics	E	3	EN
OUAP-4117	Hands on 3D technologies programming	E	3	EN
OUAP-4119	Programming and computing tools	E	3	EN
SEI-4101B	Sensors and Conditioning Circuits	B	3	EN
SEI-4101C	Introduction to MEMS and microelectronics principles	C	3	EN
FLE-1-E4	French as a Foreign Language	L	3	FR

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# Courses overview - 2024-2025

## 4th year (E4/B4/Master)

### Semester 1 - Period 2 (November - December)

Code	Course Title	Time Slot	ECTS	Language
AIC-4201C	Deep Learning	C	3	EN
AIC-4202A	Software Security	A	3	EN
AIC-4202B	System Security	B	3	EN
AP-4201	Hands on Electronics PCB	F	3	EN
AP-4206	Graphes - Algorithmes	F	3	EN
INF-4201C	HPC (2) - distributed programming	C	3	EN
INF-4202B	Algo (2) - Applied Algorithms: Strings and Images	B	3	EN
MSH-4208D	French business Culture and Communication	D	2	EN
OUAP-4204	Optimal estimation and control	E	3	EN
OUAP-4212	General Introduction to IoT	E	3	EN
OUAP-4213	Introductions to robotics	E	3	EN
OUAP-4221	Acquisition and Signal processing in biomedical applications	E	3	EN
OUAP-4227	Introduction to image analysis		3	EN
PR-4201B	Project (Topic on Demand)	B	3	EN
FLE-1-E4	French as a Foreign Language	L	(continuing)	FR

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## Courses overview - 2024-2025

### 4th year (E4/B4/Master)

### Semester 2 (January end - June)

Code	Course Title	Time Slot	ECTS	Language
AIC-4301B	Data Science	B	3	EN
AIC-4301C	Artificial Intelligence	C	3	EN
AIC-4302A	Networks Security (ex-AIC-4201A)	A	3	EN
BIO-4303C	Immunology	C	3	EN
DSIA-4302C	Deep & reinforcement Learning	C	3	EN
ENE-4301A	Dynamic simulation of energy systems	A	3	EN
ENE-4302C	Energy Lab	C	3	EN
GI-4301A	Inventory management			
GI-4302B	Production Scheduling	B	3	EN
GI-4303A	Inventory management	A	3	EN
INF-4302B	Algo (3) - Optimisation Algorithms	B	3	EN
MSH-4309D	International Management	D	3	EN
OUAP-4315	Life Cycle Analysis	E	3	EN
OUAP-4320	Clean-room	E	3	EN
OUAP-4330	Android development for Smartphones with Java	E	3	EN
OUAP-4331	Android development for Smartphones with Kotlin	E	3	EN
PR-4301B	Project (topic on demand)	B	3	EN
PRJ-4000S2	Project for exchange students (topic on demand)	F	15	EN
SEI-4301C	RF Modules	C	3	EN
FLE-1-E4	French as a Foreign Language	L	3	FR

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## Courses overview - 2024-2025

### 5th year (E5/MasterB4/)

### Semester 1 - Period 1 (September - October)

Code	Course Title	Time Slot	ECTS	Language
AIC-5101A	Penetration testing	A	3	EN
AIC-5101C	AI and Security Cloud Services	C	3	EN
AIC-5102B	Natural language processing	B	3	EN
ENE-5101A	Building energy modeling	A	3	EN
IT-5106E	IoT	E	3	EN
IT-5112E	Chair IBM - AI beyond performance metric	E	3	EN
MSH-5104D	Corporate Profiling	D	3	EN
FLE-1-E5	French as a Foreign Language	L	3	FR

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# Courses overview - 2024-2025

## 5th year (E5/MasterB4)

### Semester 1 - Period 2 (November - December)

Code	Course Title	Time Slot	ECTS	Language
AIC-5202A	Perception and AI	A	3	EN
AIC-5202B	DevSecOps	B	3	EN
AIC-5201C	Deep-Learning and its Applications	C	3	EN
BIO-5204B	Health knowledge representation and management	B	3	EN
ENE-5202B	Smart grids	B	3	EN
ENE-5203C	Computational Fluid dynamics	C	3	EN
FLE-1-E5	French as a Foreign Language	L	(continuing)	FR
INF-5204C	Computer Graphics and OpenGL	C	3	EN
IS-5205E	MEMS sensors	E	3	EN
IT-5206E	Distributed control systems	E	3	EN
SEI-5201C	Antennas for Embedded Systems	C	3	EN

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# Courses overview - 2024-2025

## Semester 1 - September - January

Number of seats restricted

Code	Course Title	ECTS	Language
MOT1-CLC	Leadership & Public Speaking	2	EN
MOT1-FBC	Intercultural Management	2	EN
MOT1-FLE	French as a Foreign Language for non-French speakers	3	FR
MOT1-IPM	International Project Management 1	2	EN
MOT1-IS1a	Digital Transformation of the Enterprise	3	EN
MOT1-IS1b	Statistics Analysis	1	EN
MOT1-IS1c	Project Management (online course from Turku Univ Finland)	6	EN
MOT1-IS2	Requirements Engineering	2	EN
MOT1-IS4	Introduction to SAP-ERP	2	EN
MOT1-NEG	Negotiation	3	EN
MOT1-PRJ	MOTIS Project	7	EN
MOT1-STRAT	Strategic Management, Innovation and Change Management	3	EN
<b>Total</b>		<b>36</b>	

## Semester 2 - February – June

Number of seats restricted

Code	Course Title	ECTS	Language
MOT2-DM	Digital Marketing	2	EN
MOT2-FIN	Introduction to Corporate Finance / Accounting	2	EN
MOT2-FLE	French as a Foreign Language for non-French speakers	3	FR
MOT2-GDP	Market Intelligence / Business Intelligence	2	EN
MOT2-GEO	Introduction to Geopolitics	2	EN
MOT2-IPM	International Project Management , including Agile methods	3	EN
MOT2-IS3	Introduction to Service Science	2	EN
MOT2-IS5	Database creation, Management Data Analytics, Data Science and a, b & c Machine Learning	3	EN
MOT2-IS6	RGPD	2	EN
MOT2-PRJ	Motis Project	7	EN
MOT2-SIM	Management Simulation	2	EN
<b>Total</b>		<b>30</b>	

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