



UNIVERSITÉ DE TECHNOLOGIE DE BELFORT-MONTBÉLIARD

Study engineering in a French University of Technology

Study programs in English for International Students

STUDY ENGINEERING IN A FRENCH UNIVERSITY OF TECHNOLOGY

→ **An exchange semester**

























Programs available in Computer Sciences, Mechanical, Industrial and Energy engineering.

→ **The possibility to continue with the complete engineering diploma**


























INDUSTRIAL SYSTEMS ENGINEERING AND MANAGEMENT





















PROGRAM IN ENGLISH

n°	UV	Name	Semester		ECTS credits
Bachelor level					
1	CP47	Basic CAD: introduction to 3D modeling in CATIA			3
2	TW43	CAD project			3
3	GP40	Operations management			6
4	TX53	Laboratory project			6
or (4)	TO53	Operational project			6
Master level					
1	SY55	Automatical Systems Architecture and Network for Industry 4.0			6
2	UN55	Model-based engineering systems : software architecture			6
3	UN56	Digital Technologies and Methods in Industry 4.0			6
4	TX53	Laboratory Project			6
Or 4	TO53	Operational Project			6
Bachelor & Master levels					
1	ESP3	Tutored project			6
2	ESP4	Tutored project			12
3	ESP5	Tutored project			18
Additional courses for Bachelor or Master level					
/	-	French or other Foreign language course (see courses catalogue on http://guideuv.utbm.fr)			4




















MECHANICAL ENGINEERING AND DESIGN PROGRAM IN ENGLISH

n°	UV	Name	Semester		ECTS credits
Bachelor Level					
1	CP41	Design methods in mechanical engineering			6
2	MN44	Introduction to multi-physics simulation			6
Last year of Bachelor level / First year of Master level					
1	MN56	Advanced modeling and simulation in mechanical engineering			6
2	CP58	Lean Product Development			6
3	MQ52	Non-linear mechanics			6
4	TX51	Laboratory project			6
or (4)	TO51	Operational project			6
or (4)	TW51	Application project			6
Master level					
1	MA53	Material forming and product assembly			6
2	MA54	Engineering of innovative materials for design			6
3	CP55	Design and Modelling for additive manufacturing			6
4	TX51	Laboratory project			6
or (4)	TO51	Operational project			6
or (4)	TW51	Application project			6
5		PLM and design for X: Collaborative design, product-process data management, PLM			6
Bachelor & Master levels					
1	ESP3	Tutored project			6
2	ESP4	Tutored project			12
3	ESP5	Tutored project			18
Additional courses for Bachelor or Master level					
/	-	French or other Foreign language course (see courses catalogue on http://guideuv.utbm.fr)			4

COMPUTER SCIENCE PROGRAM IN ENGLISH

n°	UV	Name	Semester		ECTS credits
Last year of Bachelor level / First year of Master level					
1	REA1	Introduction to networks			3
2	REA2	Routing and switching essentials			3
3	LO47	Multi-core and parallel computing			6
4	AG44	Graph Theory and Applications			6
5	BD51	Business Intelligence and Data Warehouse			6
/	RE56	Radio networks			6
Master level					
1	IA51	Artificial intelligence for serious games			6
or (1)	LO53	Positioning systems techniques and applications			6
2	TX52	Laboratory project			6
or (2)	TO52	Operational project			6
or (2)	TW52	Application project			6
or (2)	-	Introduction to Matlab/Simulink			6
Bachelor & Master levels					
1	ESP3	Tutored project			6
2	ESP4	Tutored project			12
3	ESP5	Tutored project			18
Additional courses					
/	-	French or other Foreign language course (see courses catalogue on http://guideuv.utbm.fr)			4

ENERGY PRODUCTION AND POWER SYSTEMS PROGRAM IN ENGLISH

n°	UV	Name	Semester		ECTS credits
Bachelor level					
1	OI43	Introduction to Matlab/Simulink			6
Last year of Bachelor level					
2	TX54	Laboratory project			6
Or 2	TO54	Operational project			6
Last year of Bachelor level / First year of Master level					
1	ER55	Renewable energy design and control			6
2	ER57	Power Systems analysis and control (Subject to availability)			6
3	ER59	Energy Economics			6
4	EV02	Energy, environment and sustainable development (Subject to availability)			5
5	SM50	Hardware in the Loop application			6
Master level					
1	ER54	Renewable energy principles and technology			6
2	TX54	Laboratory project			6
Or 2	TO54	Operational project			6
Bachelor & Master levels					
1	ESP3	Tutored project			6
2	ESP4	Tutored project			12
3	ESP5	Tutored project			18
Additional courses for Bachelor or Master level					
/	EV02	Energy, environment and sustainable development (Subject to availability)			5
/	-	French or other Foreign language course (see courses catalogue on http://guideuv.utbm.fr)			4

HUMANITIES

ADDITIONAL COURSES

n°	UV	Name	Semester		ECTS credits
Bachelor & Master levels					
1	CC05	Intercultural awareness : how to become a global citizen ?			5
2	EI02	The Rest of the English-Speaking World			5
3	EI03	International Security and Global Challenges			5
4	EV02	Energy and Environment			5
5	EV03	Sustainable Development			5
1	CC03	American studies			5
2	EI05	An Introduction to Innovation Studies			5
1	CC04	British studies			5
2	EI04	Industrial Buying, Selling and Negotiation			5
3	EV04	Environmental and energy economics			5

CONTACT

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