CURRICULUM B.Eng. INDUSTRIAL ENGINEERING AND MANAGEMENT
myStudies

Semester	Presence timeframe	Module	Course Code	Course	ECTS	Type of Exam
1. Semester	Oct/Nov/Dec	Scientific and technical fundamentals	DLBINGNAG01_E	Scientific and technical fundamentals	5	Exam
	Oct/Nov/Dec	Introduction to Robotics	DLBROIR01_E	Introduction to Robotics	5	Exam/Written Assessment: Written Assignment
	Oct/Nov/Dec	Management Accounting	DLBMAE01	Management Accounting	5	Exam/Written Assessment: Written Assignment
	Jan/Feb/Mar	Technical Drawing	DLBROTD01_E	Technical Drawing	5	Exam
	Jan/Feb/Mar	Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
	Jan/Feb/Mar	International Marketing	DLBDSEIMB01	International Marketing	5	Exam
2. Semester	Apr/May/Jun	Mathematics II	DLBCSM201	Mathematics II	5	Exam
	Apr/May/Jun	Business 101	DLBBAB01_E	Business 101	5	Exam/Written Assessment: Written Assignment
	Apr/May/Jun	Managerial Economics	DLBBWME01_E	Managerial Economics	5	Exam
	Jun/Jul/Aug	Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Workbook (passed / not passed)
	Jun/Jul/Aug	Introduction to the Internet of Things	DLBINGEIT01_E	Introduction to the Internet of Things	5	Exam
	Jun/Jul/Aug	Production Engineering	DLBDSEAR01	Production Engineering	5	Exam
3. Semester	Oct/Nov/Dec	Entrepreneurship and Innovation	DLBBAEI01_E	Entrepreneurship and Innovation	5	Written Assignment
	Oct/Nov/Dec	Supply Chain Management I	DLBDSESCM01	Supply Chain Management I	5	Exam
	Oct/Nov/Dec	Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Case Study
	Jan/Feb/Mar	Electrical Engineering	DLBINGET01-01_E	Electrical Engineering	5	Exam
	Jan/Feb/Mar	Project: Design Thinking	DLBINGDT01_E	Project: Design Thinking	5	Project Report
	Jan/Feb/Mar	Sensor Technology	DLBROST01_E	Sensor Technology	5	Exam
4. Semester	Apr/May/Jun	Mechatronic Systems	DLBROMSY01_E	Mechatronic Systems	5	Exam
	Apr/May/Jun	Automation Technology	DLBROEIRA02_E	Automation Technology	5	Exam
	Apr/May/Jun	Data Analytics and Big Data	DLBINGDABD01_E	Data Analytics and Big Data	5	Case Study
	Jun/Jul/Aug	Corporate Finance and Investment	DLBCFIE01	Corporate Finance and Investment	5	Written Assignment
	Jun/Jul/Aug	Principles of Management	DLBBAPM01_E	Principles of Management	5	Case Study
	Jun/Jul/Aug	Product Development in Industry 4.0	DLBINGPE01_E	Product Development in Industry 4.0	5	Exam
5. Semester	Oct/Nov/Dec	Digital Business Models	DLBLODB01_E	Digital Business Models	5	Exam
	Oct/Nov/Dec	Agile Project Management	DLBCSAPM01	Agile Project Management	5	Project Report
	Oct/Nov/Dec	Project: Smart Product Solutions	DLBIEPSPS01	Project: Smart Product Solutions	5	Oral Project Report
	Jan/Feb/Mar	Seminar: Human-Robot Interaction	DLBROSHRI01_E	Seminar: Human-Robot Interaction	5	Research Essay
6. Semester	online	ELECTIVE A*		e.g. Applied Robotics	10	
	online	ELECTIVE B*		e.g. Project: Hackathon	10	
	online	ELECTIVE C*		e.g. Applied Sales	10	
	online	Bachelor Thesis		Bachelor Thesis	9	Bachelor Thesis
				Thesis Defense	1	Presentation: Colloquium
Total 180 ECTS						

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☑
Here you can see a suggestion for the order of the modules that you can study one after the other in presence. The IU International University of Applied Sciences offers you the flexibility to study on Campus for one semester or more and switch to online or the other way around.

☑
Each semester consists of two blocks, so that the examination phases are better distributed over the year.

In each block, there are 9 weeks of attendance to deepen the content in direct exchange with fellow students and lecturers. Each block concludes with a two-week examination phase.

☑
Attention: Attendance times may vary slightly depending on public holidays and the federal state holidays the campus is located in.

☑
* Electives: Choose one module from the Elective A , one module from the Elective B and one module from the Elective C. Every elective module can only be chosen once.

Note: Except for the "Practice Project: Industrial Enginering 4.0", the Electives will only be held in distance learning (online).

Elective A	Elective B	Elective C
Applied Robotics	Practice Project: Industrial Engineering 4.0 (NOTE: offered on campus only in Jan/Feb/Mar)	Applied Robotics
Applied Sales	Project: Hackathon	Applied Sales
Autonomous Driving		Autonomous Driving
Control Engineering		Control Engineering
Introduction to Cognitive Robotics		Introduction to Cognitive Robotics
Microcontroller		Microcontroller
Object-oriented Programing		Object-oriented Programing
Programming of Robotic Systems		Programming of Robotic Systems
Service Robotics		Service Robotics
Smart Devices		Smart Devices
Smart Factory		Smart Factory
Smart Mobility		Smart Mobility
Smart Services		Smart Services