CURRICULUM B.ENG. INDUSTRIAL ENGINEERING AND MANAGEMENT

DISTANCE LEARNING

Semester			Module	Course Code	Course	ECTS	Type of Exam
FT	PT I	PT II					
1. Semester	1. Semester	1. Semester	Business 101	DLBBAB01_E	Business 101	5	Exam or Written Assignment
			Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
			Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
		2. Semester	Mathematics II	DLBCSM201	Mathematics II	5	Exam
			Principles of Management	DLBBAPM01_E	Principles of Management	5	Case Study
	2. Semester		Introduction to Robotics	DLBROIR01_E	Introduction to Robotics	5	Exam or Written Assignment
2. Semester		3. Semester	Managerial Economics	DLBBWME01_E	Managerial Economics	5	Exam
			Scientific and technical fundamentals	DLBINGNAG01_E	Scientific and technical fundamentals	5	Exam
			Introduction to the Internet of Things	DLBINGEIT01_E	Introduction to the Internet of Things	5	Exam
	3. Semester	4. Semester	Electrical Engineering	DLBINGET01-01_E	Electrical Engineering	5	Exam
			Production Engineering	DLBDSEAR01	Production Engineering	5	Exam
			Sensor Technology	DLBROST01_E	Sensor Technology	5	Exam
3. Semester		5. Semester	Management Accounting	DLBMAE01	Management Accounting	5	Exam or Written Assignment
			Automation Technology	DLBROEIRA02_E	Automation Technology	5	Exam
	4. Semester		Technical Drawing	DLBROTD01_E	Technical Drawing	5	Exam
		6. Semester	Corporate Finance and Investment	DLBCFIE01	Corporate Finance and Investment	5	Written Assignment
			Supply Chain Management I	DLBDSESCM01	Supply Chain Management I	5	Exam
			Mechatronic Systems	DLBROMSY01_E	Mechatronic Systems	5	Exam
4. Semester	5. Semester	7. Semester	Entrepreneurship and Innovation	DLBBAEI01_E	Entrepreneurship and Innovation	5	Written Assignment
			Project: Design Thinking	DLBINGDT01_E	Project: Design Thinking	5	Project Report
			Data Analytics and Big Data	DLBINGDABD01_E	Data Analytics and Big Data	5	Case Study
		8. Semester	Seminar: Human-Robot Interaction	DLBROSHRI01_E	Seminar: Human-Robot Interaction	5	Research Essay
			Agile Project Management	DLBCSAPM01	Agile Project Management	5	Project Report
	6. Semester		Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Case Study
5. Semester		9. Semester	Product Development in Industry 4.0	DLBINGPE01_E	Product Development in Industry 4.0	5	Exam
			Project: Smart Product Solutions	DLBIEPSPS01	Project: Smart Product Solutions	5	Oral Project Report
			ELECTIVE A*		e.g. Smart Devices	10	
	7. Semester	10.	ELECTIVE B*		e.g. Project: Hackathon	10	
			ELECTIVE C*		e.g. Smart Factory	10	
6. Semester		11.	Digital Business Models	DLBLODB01_E	Digital Business Models	5	Exam
	8.		International Marketing	DLBDSEIMB01	International Marketing	5	Exam
		12.	Bachelor Thesis		Bachelor Thesis Thesis Defense	9 1	Bachelor Thesis Presentation: Colloquium
Total 180 ECTS							

INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

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You've already planned out exactly how your course schedule should look? Wonderful!
The IU International University of Applied Sciences offers you the flexibility to choose any module you like from any semester. You can work on a number of modules at the same time or one by one.

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At the beginning, choose modules that particularly interest you or that you can use directly in your job. This motivates you and gives you success right from the start.

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A module with two courses consists of an introduction and a consolidation. In order to successfully complete a module, you must successfully pass both the introduction and the consolidation of the module within the framework of a module examination.

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* Electives: Choose three modules, every elective module can only be chosen once.

FT: Full-Time, 36 months
PT I: Part-Time I, 48 months
PT II: Part-Time II, 72 months

Elective A:	Elective B:	Elective C:
Smart Devices	Practice Project: Industrial Engineering 4.0	Smart Devices
Smart Factory	Project: Hackathon	Smart Factory
Smart Mobility		Smart Mobility
Smart Services		Smart Services
Service Robotics		Microcontroller
Introduction to Cognitive Robotics		Service Robotics
Programming of Robotic Systems		Introduction to Cognitive Robotics
Autonomous Driving		Programming of Robotic Systems
Applied Sales		Autonomous Driving
Applied Robotics		Applied Sales
Control Engineering		Applied Robotics
Microcontroller		Control Engineering
Object-oriented Programing		Object-oriented Programing
		Internship
		Studium Generale

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You can find more information about your degree program in the module handbook on our website.