

**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	Mathematics I	DLBCSM101	Mathematics I	5	Exam
			Business 101	DLBBAB01_E	Business 101	5	Written Assignment
			Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Workbook
			Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
			Principles of Management	DLBBAPM01_E	Principles of Management	5	Case Study
2. Semester	2. Semester	3. Semester	Scientific and technical fundamentals	DLBINGAG01_E	Scientific and technical fundamentals	5	Exam
			Mathematics II	DLBCSM201	Mathematics II	5	Exam
			Statistics - Probability and Descriptive Statistics	DLBSSPDS01	Statistics - Probability and Descriptive Statistics	5	Exam
			Managerial Economics	DLBBWME01_E	Managerial Economics	5	Exam
			Electrical Engineering	DLBINGET01-01_E	Electrical Engineering	5	Exam
3. Semester	3. Semester	4. Semester	Production Engineering	DLBDSEAR01	Production Engineering	5	Exam
			Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	Exam
			Management Accounting	DLBMAE01	Management Accounting	5	Written Assignment
			Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Case Study
			Entrepreneurship and Innovation	DLBBAE101_E	Entrepreneurship and Innovation	5	Written Assignment
4. Semester	4. Semester	6. Semester	Software Engineering Principles	IGIS01_E	Software Engineering Principles	5	Exam
			Corporate Finance and Investment	DLBCFI01	Corporate Finance and Investment	5	Written Assignment
			Supply Chain Management I	DLBDSESCM01	Supply Chain Management I	5	Exam
			International Marketing	DLBDSEIMB01	International Marketing	5	Exam
			Project: Design Thinking	DLBINGDT01_E	Project: Design Thinking	5	Project Report
5. Semester	5. Semester	7. Semester	Digital Business Models	DLBLODB01_E	Digital Business Models	5	Exam
			Introduction to Data Protection and IT Security	DLBCSIDPITS01	Introduction to Data Protection and IT Security	5	Exam
			Introduction to the Internet of Things	DLBINGEIT01_E	Introduction to the Internet of Things	5	Exam
			Automation and Robotics	DLBDSEAR02	Automation and Robotics	5	Exam
			Product Development in Industry 4.0	DLBINGPE01_E	Product Development in Industry 4.0	5	Exam
6. Semester	6. Semester	9. Semester	Project: Smart Product Solutions	DLBIEPSPS01	Project: Smart Product Solutions	5	Oral Project Report
			Agile Project Management	DLBCSAPM01	Agile Project Management	5	Project Report
			Data Analytics and Big Data	DLBINGDABD01_E	Data Analytics and Big Data	5	Case Study
			ELECTIVE A*		e.g. Smart Devices	10	
			ELECTIVE B*		e.g. Industrial Robotics and Automation	10	
8.	11.	12.	ELECTIVE C*		e.g. Smart Factory	10	
			Bachelor Thesis		Bachelor Thesis Thesis Defense	9 1	Bachelor Thesis Presentation: Colloquium
Total						180 ECTS	



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.

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.

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.

\* 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	Industrial Robotics and Automation	Smart Devices
Smart Factory	Service Robotics	Smart Factory
Smart Mobility	Introduction to Cognitive Robotics	Smart Mobility
Smart Services	Programming of Robotic Systems	Smart Services
	AI Specialist	
	Autonomous Driving	
	Foundations of Programming with Python	
	IT Project and Architecture Management	
	Applied Sales	
	Mobile Software Engineering	
	Foreign Language Italian	
	Foreign Language French	
	German Language	
	Foreign Language Spanish	

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