CURRICULUM B.Eng. INDUSTRIAL ENGINEERING AND MANAGEMENT

nyStudies, 1	80 ECTS Cred							_				
	Model 1: Programme Start October			Model 2: Programme Start January			Model 3: Programme Start April			Model 4: Programme Start July		
Month	Courses			Courses			Courses			Courses		
Oct	Fundamentals of	Introduction) Management									
Nov	Physics	Robotics	Accounting									
Dec						1						
Jan	Technical Drawing	Collaborative W	International	Technical Drawing	Collaborative Work	International						
Feb Mar	recillical brawing	Collaborative vi	Marketing	recillicat brawing	Collaborative work	Marketing						
Apr			Managerial			Managerial			Managerial			
May	Mathematics II	Business 101	Economics	Mathematics II	Business 101	Economics	Mathematics II	Business 10	1 Economics			
Jun		Lecture-Free Period										
Jul	Introduction to	Introduction to	he Production	Introduction to	Introduction to the	Production	Introduction to	Introduction to	Production	Introduction to	Introduction to the	Production
Aug	Academic Work	Internet of Thir		Academic Work	Internet of Things	Engineering Industry 4.0	Academic Work	Internet of Th		Academic Work	Internet of Things	Engineering Industry 4.0
Sep	Lecture-Free Period											
Oct			Intercultural and									
Nov	Entrepreneurship and Innovation	Supply Chair Management	Ethical Decision- Making	Fundamentals of Physics	Introduction to Robotics	Management Accounting	Fundamentals of Physics	Introduction Robotics	to Management Accounting	Fundamentals of Physics	Introduction to Robotics	Management Accounting
Dec			макіпд	·		_	1					_
Jan	Electrical	Project: Desig		Electrical	Project: Design				International			International
Feb	Engineering	Thinking	Sensor Technology	Engineering	Thinking	Sensor Technology	Technical Drawing	Collaborative	Work Marketing	Technical Drawing	Collaborative Work	Marketing
Mar												
Apr May	Mechatronic Systems	Automation Technology	Data Analytics and Big Data	Mechatronic Systems	Automation Technology	Data Analytics and Big Data	Mechatronic Systems	Automatio Technolog		Mathematics II	Business 101	Managerial Economics
Jun				<u> </u>		Lecture-F	ree Period	_				
Jul	Composite Einspres and											
Aug	Investment		nciples of Management	Investmen		les of Management	Investmen		Principles of Management	Investmen		ples of Management
Sep		'		•	'	Lecture-F	ree Period					
Oct	Digital Business	Agile Project	Project: Smart	Entrepreneurship	Supply Chain	Intercultural and	Entrepreneurship	Supply Cha	Intercultural and	Entrepreneurship	Supply Chain	Intercultural and
Nov	Models	Managemen	Product Solutions	and Innovation	Management I	Ethical Decision- Making	and Innovation	Managemen		and Innovation	Management I	Ethical Decision- Making
Dec						makiig			Making			making
Jan	Seminar: Human-	Elective A	Elective A	Seminar: Human-	Elective A	Elective A	Electrical	Project: Desi	gn Sensor Technology	Electrical	Project: Design	Sensor Technology
Feb Mar	Robot Interaction	Course a	Course b	Robot Interaction	Course a	Course b	Engineering	Thinking	- Sensor recnnology	Engineering	Thinking	Sensor recnnology
Apr	Elective B		Product	Elective B		Product	Elective B		Product Development in		Automation	Data Analytics and
May	(10 ECTS)		Development in Industry 4.0	(10 ECTS)		Development in Industry 4.0		(10 ECTS)		Mechatronic Systems	Technology	Big Data
Jun	Industry 4.0 (Industry 4.0 (In											
Jul	Elective C	Elective C	Bachelor Thesis	Elective C	Elective C	Bachelor Thesis	Elective C	Elective C	Bachelor Thesis	Elective C	Elective C	Bachelor Thesis
Aug	Course c	Course d	Bachelor I nesis	Course c	Course d	Bachelor Thesis	Course c	Course d	Bachelor Thesis	Course c	Course d	Bachelor Thesis
Sep	Lecture-Free Period											
Oct				Digital Business	Agile Project	Project: Smart	Digital Business	Agile Projec	t Project: Smart	Digital Business	Agile Project	Project: Smart
Nov				Models	Management	Product Solutions	Models	Managemen		Models	Management	Product Solutions
Dec											-	_
Jan Feb							Seminar: Human-	Elective A	Elective A	Seminar: Human-	Elective A	Elective A
Heb Mar							Robot Interaction	Course a	Course b	Robot Interaction	Course a	Course b
Apr										Fla	ctive B	Product
Mav											ECTS)	Development in Industry 4.0

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Here you see the order in which you study your consures in presence depending on your personal study start in October, January, Aprilor July, Each semester consists of two blocks. In each block, you attend classes on campus for usually three courses to deepen the content in direct exchange with your fellow students and lecturers.

You have lecture-free periods in both June and September, which you can spend reviewing and preparing for exams. Attending the courses on campus is mandatory and will be verified due to Visa regulations (not valid for DACH students).

Each block concludes with a two-week exam preparation phase. You can defer those exams to a later date that you do not want to take during this period. This way, your exam phases are always spread evenly over the year. Exceptions to this are courses that count as admission requirements for other courses.

If you are studying Model 2, 3 or 4 you will have to start your Bachelor Thesis before completing your final courses.

Note: You can already start with your thesis earlier than the designated block, once you have met the minumum amount of credit points required to enter.

Object-oriented Programing
a) Object-oriented Programming with Java
b) Data Structures and Java Class Library
Service Robotics

Smart Mobility

a) Smart Mobility I
b) Smart Mobility II
Smart Services
a) Smart Services I
b) Smart Services II

Service Robotics c) Mobile Robotic d) Soft Robotics Smart Devices of Projects Applied Robotics with Robotic Platforms
of Projects Applied Robotics with Robotic Platforms
of Applied Sales I G Smart Dovices I
d Applied Sales I G Smart Dovices I
d Applied Sales I G Smart Dovices I
d Smart Robotics
Smart Robotic
G Smart Robotics
G Smart

Course Information											
Module	Course Code	Course	ECTS Credits	Type of Exam							
Fundamentals of Physics	DLBWINGP01_E	Fundamentals of Physics	5	Exam							
Introduction to Robotics	DLBROIR01_E	Introduction to Robotics	5	Exam/Written Assessment: Written Assignment							
Management Accounting	DLBMAE01	Management Accounting	5	Exam/Written Assessment: Written Assignment							
Technical Drawing	DLBROTD01_E	Technical Drawing	5	Exam							
Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment							
International Marketing	DLBDSEIMB01	International Marketing	5	Exam							
Mathematics II	DLBCSM201	Mathematics II	5	Exam							
Business 101	DLBBAB01_E	Business 101	5	Exam/Written Assessment: Written Assignment							
Managerial Economics	DLBBWME01_E	Managerial Economics	5	Exam							
Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook							
Introduction to the Internet of Things	DLBINGEIT01_E	Introduction to the Internet of Things	5	Exam							
Production Engineering Industry 4.0	DLBDSEAR01	Production Engineering Industry 4.0	5	Exam							
Entrepreneurship and Innovation	DLBBAEI01-01_E	Entrepreneurship and Innovation	5	Exam							
Supply Chain Management I	DLBDSESCM01	Supply Chain Management I	5	Exam							
Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Written Assessment: Case Study							
Electrical Engineering	DLBINGET01-01_E	Electrical Engineering	5	Exam							
Project: Design Thinking	DLBINGDT01_E	Project: Design Thinking	5	Written Assessment: Project Report							

 \sim 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.

* This course comes with admissions requirements. Please consult the module handbook for more information.

Note: Elective modules where the minimum number of participants is not reached will only be offered online (distance learning). However, IU ensures that there are always electives on campus.