## CURRICULUM B.Eng. INDUSTRIAL ENGINEERING AND MANAGEMENT

Campus Studies, 180 ECTS Credits

	Model 1: Programme Start October			Model 2: Programme Start January			Model 3: Programme Start April		
Month	Courses			Courses			Courses		
Oct Nov	Fundamentals of Physics	Introduction to Robotics	Management Accounting						
Dec									
Jan									
Feb	Technical Drawing	Collaborative Work	International Marketing	Technical Drawing	Collaborative Work	International Marketing			
Mar									
Apr			Managerial		B	Managerial			Managerial
May	Mathematics II	Business 101	Economics	Mathematics II	Business 101	Economics	Mathematics II	Business 101	Economics
Jun	Lecture-Free Period								
Jul	Introduction to Academic Work	Introduction to the Internet of Things	Production Engineering Industry 4.0	Introduction to Academic Work	Introduction to the Internet of Things	Production Engineering Industry 4.0	Introduction to Academic Work	Introduction to the Internet of Things	Production Engineering Industry 4.0
Aug									
Sep				·	Lecture-Free Period		<b>'</b>	I	
Oct			Intercultural and						
Nov	Entrepreneurship and Innovation	Supply Chain Management I	Ethical Decision- Making	Fundamentals of Physics	Introduction to Robotics	Management Accounting	Fundamentals of Physics	Introduction to Robotics	Management Accounting
Dec									
Jan	Electrical Engineering	Project: Design Thinking	Sensor Technology	Electrical Engineering	Project: Design Thinking	Sensor Technology	Technical Drawing	Collaborative Work	International Marketing
Feb									
Mar									
Apr	Mechatronic Systems	Automation	Data Analytics and	Mechatronic Systems	Automation	Data Analytics and	Mechatronic Systems	Automation	Data Analytics and
May	Mechanic Systems	Technology	Big Data	Meerida one Systems	Technology	Big Data	Meenacionic Systems	Technology	Big Data
Jun					Lecture-Free Period				
Jul	Corporate Finance and Investment Principl		les of Management		Corporate Finance and Principles		Corporate Finance and Principl		les of Management
Aug				Investment					
Sep					Lecture-Free Period	ı	1	Ι	I
Oct	Digital Business	Project: Agile Project Management	Project: Smart Product Solutions	Entrepreneurship and Innovation	Supply Chain Management I	Intercultural and Ethical Decision- Making	Entrepreneurship and Innovation	Supply Chain Management I	Intercultural and Ethical Decision- Making
Nov	Models								
Dec									
Jan Feb	Seminar: Human- Robot Interaction	Elective A Course a	Elective A Course b	Seminar: Human- Robot Interaction	Elective A Course a	Elective A Course b	Electrical Engineering	Project: Design Thinking	Sensor Technology
Mar									
Apr	Elective B		Product Development	Elective B Pr		Product Development	Elective B P		Product Development
May	(10 ECTS)		in Industry 4.0			in Industry 4.0			in Industry 4.0
Jun					Lecture-Free Period				
Jul	Elective C	Elective C	B. d. J. Th. C.	Elective C	Elective C	Bardada Tharia	Elective C	Elective C	Barbalan Thank
Aug	Course c	Course d	Bachelor Thesis	Course c	Course d	Bachelor Thesis	Course c	Course d	Bachelor Thesis
Sep					Lecture-Free Period				
Oct				Biotect Boots	Desired Arthurs 1		Probable of the	Desired Arile Desire	Burtout Sauce
Nov				Digital Business Models	Project: Agile Project Management	Project: Smart Product Solutions	Digital Business Models	Project: Agile Project Management	Project: Smart Product Solutions
Dec								-	
Jan							Seminar: Human-	Elective A	Elective A
Feb							Robot Interaction	Course a	Course b
Mar									
Apr									
May									





Here you see the order in which you study your courses in presence depending on your personal study start in October, January or April. Each semester consists of two blocks. In each block, you attend classes on campus for usually three courses to deepen the content in direct eachange 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.

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

If you are studying Model 2 or 3 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 a) Mobile Robotics b) Soft Robotics obotics a) Embedded Systems b) Project: Applied Robotics with Robotic Platforms LO Pringer. Applies holdows with national relations of Soles a) Applied Sales I b) Applied Sales I mous Divining a) Self-Driving Vehicles b) Seminar. Current Topics and Trends in Self-Driving Technology a) Smart Devices b) Project: Smart Devices Smart Factory a) Smart Factory b) Project: Smart Factory Engineering a) Signals and Systems b) Control Systems Engineering\* a) Smart Mobility b) Project: Smart Mobility rvices a) Smart Services b) Project: Smart Services roiter a) Digital and Information Technology b) Project: Microcontrollers and Logical Circuits

actical Project: Engineering Management oject: Hackathon

Robotics c) Embedded Systems d) Project: Applied Robotics with Robotic Platforms

Applied Solies

() Applied Sales I

() Applied Sales I

() Applied Sales II

Autonomous Driving

() Self-Driving Vehicles
() Sentians: Current Topics and Trends in Self-Driving Technology

Control Engineering
() Signals and Systems
() Control Systems Engineering\*

Control Engineering

Robotics
c) Digital Signal Processing
d) Introduction to Computer Vision

Introller
c) Digital and Information Technology
d) Project: Microcontrollers and Logical Circuits
riented Programing
c) Object-oriented Programming with Java
d) Data Structures and Java Class Library

c) Mobile Robotics d) Soft Robotics

Smart Devices
c) Smart Devices
d) Project: Smart Devices
Smart Factory
c) Smart Factory
d) Project: Smart Factory

obility c) Smart Mobility d) Project: Smart Mobility

Smart Services
c) Smart Services
d) Project: Smart Services

Mostering Prompt:

(a) Artificial Intelligence
(d) Project. Al Escellence with Creative Prompting Techniques

Coreer Development
(c) Personal Career Plan
(d) Personal Elevator Pitch

AWS Cloud Specialization

c) Project: AWS - Cloud Essentials d) Project: AWS - Cloud Advanced

Internship Studium Generale I and II

- 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.