## CURRICULUM B.Sc. APPLIED ARTIFICIAL INTELLIGENCE

	Model 1	: Progran	nme Start	October Model 2: Programme Start Apri			rt April		
Month		Courses				Courses			
Oct									
Nov	Artificial Intelligence	Introduction to Academic Work		Mathematics: Analysis					
Dec	intettigence			Ariatysis					
Jan	Introduction to	Collaborative Work		Statistics -					
Feb	Programming with			Probability and Descriptive					
Mar	Python			Statistics					
Apr	Object Oriented and	Mathematics: Linear Algebra		Statistics -	Artificial	Introduction to Academic Work		Mathematics: Analysis	
May	Functional Programming with Python			Inferential Statistics*	Intelligence				
Jun				Lecture-I	Free Period				
Jul	Cloud	Machine Learning - Supervised Learning*		Machine Learning -	Introduction to			Statistics - Probabili and Descriptive Statistics	
Aug	Programming			Unsupervised Learning & Feature Engineering	Programming with Python	Collaborative Work			
Sep						e-Free Period			
Oct		Neural Nets and Deep Learning*		Data Science	Object Oriented	Functional Mathematics: Linear mming with Algebra		Statistics - Inferential Statistics*	
Nov	Cloud Computing			Software	and Functional				
Dec	1			Engineering*	Programming with Python				
Jan								Machine Learning	
Feb	Introduction to	Project: Computer Vision		Introduction to Reinforcement Learning*	Cloud	Machine Learning - Supervised Learning*		Unsupervised Learning & Featur Engineering*	
Mar	Computer Vision				Programming				
Apr	Introduction to	oduction to Project: NLP		Agile Project	Introduction to	Project: NLP		Agile Project	
May				Management	NLP			Management	
Jun	Lecture-Free Period								
Jul	Introduction to					Introduction to			
Aug	Data Protection &	User Experience		UX-Project <sup>1</sup>	Data Protection & Cyber Security	User Experience UX-Project		UX-Project <sup>1</sup>	
Sep	Cyber Security Cyber Security  Lecture-Free Period								
Oct		intercultural			1				
Nov		and Ethical Elective A Decision- Course a Making			Cloud Computing	Neural Nets and Deep Learning*		Data Science Software	
Dec	Robotics							Engineering*	
Jan	<del>                                     </del>	Elective B Course c		Elective B Course d	Introduction to Computer Vision	Project: Computer Vision		Introduction to Reinforcement Learning*	
Feh	Seminar: Ethical Considerations in								
Mar	Data Science								
Apr	Project: From	Project: From Elective C Model to Course e		Elective C	Project: From	Elective C Course e		Elective C	
May				Course f	Model to Production*			Course f	
Jun	FIOUDCUOII			Lecture-I	Free Period				
Jul		Lecture Free Ferri							
Aug	-	Bachelor Thesis				Bachelor Thesis			
Sep		Lecture-Free Period							
Oct				ECCLUI E-		Intercultural			
					Introduction to	and Ethical	Elective A	Elective A	
Nov					Robotics	Decision-	Course a	Course b	
Dec					Seminar: Ethical	Making			
Jan						Elective B		Elective B	
Feb	_				Considerations in Data Science	Cou	rse c	Course d	
Mar									





Here you see the order in which you study your courses in presence depending on your personal study start in October or April. Each semester consists of two block in neach 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 late 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.



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.

a) Self-Driving Vehicles
b) Seminar: Current Topics and Trends in Self-Driving Technology

a) Data Engineering b) Project: Data Engineering

telligence
a) Business Intelligence
b) Project: Business Intelligence a) Advanced Data Analysis b) Project: Data Analysis

c) Applied Sales I d) Applied Sales II

ain Management c) Supply Chain Management I d) Supply Chain Management II

and architecture management c) IT Project Management d) IT Architecture Management

of Human Computer Interaction c) Experience Psychology d) Human Computer Interaction

as Driving App

e) Self-Driving Vehicles
f) Seminar: Current Topics and Trends in Self-Driving Technology

Data Engineer

(f) Project: Data Engineering

(f) Project: Data Engineering

Digital Signal Processing and Sensor Technology

(e) Digital Signal Processing

(f) Sensor Technology

Intelligence
e) Business Intelligence
f) Project: Business Intelligence

lyst e) Advanced Data Analysis f) Project: Data Analysis

e) Augmented, Mixed and Virtual Reality

f) X-Reality Project

nol Marketing and Branding
e) International Marketing
f) International Brand Management

Project and architecture management
e) IT Project Management
f) IT Architecture Management

e) Certificate Course French f) Foreign Language French anguage Spanish e) Certificate Course Spanish f) Foreign Language Spanish

eign Language German e) Certificate Course German f) Foreign Language German

Career Development
e) Personal Career Plan
f) Personal Elevator Pitch
Studium Generale

~ Electives: Choose one module with two courses 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.

1 Alternatively, you can choose the course "Project: Edge Al".

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

Course Information

Nocke

Artificial Intiligenze
Introduction is Academic Work

Machineal Intelligenze
Introduction is Academic Work

Machineanic Analysis
Introduction to Programming with Python

Collaborative Work

Statistics - Probability and Descriptive Statistics

Object Oriented and Functional Programming with Python

Object Oriented and Internocial Programming with Python

Nathematics: Linear Algebra

Santatics: Informatid Statistics'

Coud Programming

Machinea Learning - Supervined Learnings'

Machinea Learning - Supervined Learnings'

Data Science Software Engineering'

Introduction to Employer Vision

Project Computer Vision

Introduction to Rupper Vision

Introduction to Nutre Project Analysment

Use Project

Use Project

Use Project

Introduction to Rubber

Seminar Ethical Consideration in Data Science

Project Erom Production'

LLCTIVE —

Backet Thesis

Artificial Intelligence
Introduction to Academic Work
Mathematics. Analysis
Introduction to Academic Work
Mathematics. Analysis
Introduction to Programming with Python
Collaborates Work
Statistics. Probability and Descriptive Statistics
Object Oriented and Prunctional Programming with Python
Mathematics. Linear Algebra
Statistics. Inferential Statistics

Object Oriented and Statistics

Ascholar Learning. Suprovined Learning\*
Machine Learning. Suprovined Learning and Feature Engineering\*
(Cloud Computing)
Data Science Software Engineering\*
Introduction to Computer Wision
Introduction Computer Wision
Introduction to Mathematics and Cyber Security

U.K. Project: Empire Wision
Interduction to Alba Protection and Cyber Security

U.K. Project: Empire Wision
Interduction to Robitical
Interduction Technical Devices Making
Seminars Ethical Considerations in Data Science
Project: Empire Robitical
Interduction and Engineering, Automation and Robotics
Bacholor Thesis

Thesis Defense Course Code
DELESSANDI

Type of Exam
Exam
Basic Workbook
Exam
Exam
Oral Assignment

Bachelor Thesis Presentation: Colloquium