CURRICULUM B.SC. APPLIED ARTIFICIAL INTELLIGENCE

ONLINE STUDIES, FULL-TIME (36 MONTHS)

	emest PT I	er PT II	Module	Course Code	Course	ECTS	Type of Exam
1. Semester	1. Semester	Semester	Artificial Intelligence	DLBDSEAIS01	Artificial Intelligence	5	Exam
			Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
		1.5	Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
		ře	Mathematics: Analysis	DLBDSMFC01	Mathematics: Analysis	5	Exam
		Semester	Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
		2. S	Statistics - Probability and Descriptive Statistics	DLBDSSPDS01	Statistics - Probability and Descriptive Statistics	5	Exam
	2. Semester	ře	Object Oriented and Functional Programming with Python	DLBDSOOFPP01	Object Oriented and Functional Programming with Python	5	Portfolio
		3. Semester	Mathematics: Linear Algebra	DLBDSMFLA01	Mathematics: Linear Algebra	5	Exam
Semester			Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Case Study
2. Sem	3. Semester	4. Semester	Statistics - Inferential Statistics	DLBDSSIS01	Statistics - Inferential Statistics	5	Exam
			Cloud Computing	DLBDSCC01	Cloud Computing	5	Exam
			Cloud Programming	DLBSEPCP01_E	Cloud Programming	5	Portfolio
	3.56	Semester	Machine Learning - Supervised Learning	DLBDSMLSL01	Machine Learning - Supervised Learning	5	Exam
			Machine Learning - Unsupervised Learning and Feature Engineering	DLBDSMLUSL01	Machine Learning - Unsupervised Learning and Feature Engineering	5	Case Study
Semester	4. Semester	5. S	Neural Nets and Deep Learning	DLBDSNNDL01	Neural Nets and Deep Learning	5	Oral Assignment
Sem		je.	Introduction to Computer Vision	DLBAIPCV01	Introduction to Computer Vision	5	Exam
(7)		Semester	Project: Computer Vision	DLBAIPCV01	Project: Computer Vision	5	Project Report
		6. S	Introduction to Reinforcement Learning	DLBAIIRL01	Introduction to Reinforcement Learning	5	Exam
	5. Semester	Je.	Introduction to NLP	DLBAIINLP01	Introduction to NLP	5	Exam
		7. Semester	Project: NLP	DLBAIPNLP01	Project: NLP	5	Project Report
ester			Introduction to Data Protection and IT Security	DLBCSIDPITS01	Introduction to Data Protection and IT Security	5	Exam
. Semester		-i-	Data Science Software Engineering	DLBDSDSSE01	Data Science Software Engineering	5	Exam
7		Semester	Project: From Model to Production	DLBDSMTP01	Project: From Model to Production	5	Oral Project Report
		8. S	Seminar: Ethical Considerations in Data Science	DLBDSSECDS01	Seminar: Ethical Considerations in Data Science	5	Research Essay
	6. Semester	Semester	User Experience	DLBMIUEX01_E	User Experience	5	Exam
.e.			UX-Project OR Project: Edge AI	DLBMIUEX02_E OR DLBAIPEAI01	UX-Project OR Project: Edge Al	5	Project Report
5. Semester		9. Sem	Introduction to Robotics	DLBROIR01_E	Introduction to Robotics	5	Written Assignment
5. S	Semester	5	Agile Project Management	DLBCSAPM01	Agile Project Management	5	Project Report
		Ţ.	ELECTIVE A*		e.g. Autonomous Driving	10	
6. Semester	7. S	10.	ELECTIVE B*		e.g. Automation and Robotics	10	
		11	ELECTIVE C*		e.g. Data Engineer	10	
	œ.	12.	Bachelor Thesis		Bachelor Thesis Thesis Defense	9	Bachelor Thesis Presentation: Colloquium





You've already planned out exactly how your course schedule should look? Wonderful! The IU 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 A:

Automation and Robotics

Data Engineer

Digital Signal Processing and Sensor
Technology

Database Developer

Business Intelligence

Data Analyst

Augmented, Mixed and Virtual Reality

International Marketing and Branding Applied Sales Supply Chain Management IT project and Architecture Management Psychology of Human Computer Interaction

Elective C:

Elective C:

Autonation and Robotics
Data Engineer
Digital Signal Processing and Sensor Technology
Database Developer
Business Intelligence
Data Analyst
Augmented, Mixed and Virtual Reality
International Marketing and Branding
Applied Sales
Supply Chain Management
IT Project and Architecture Management
Psychology of Human Computer Interaction
Foreign Language Italian
Foreign Language Ternch
Foreign Language French
Foreign Language Spanish
Sturflum Generale

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You can find more information about your degree program in the module