

CURRICULUM B.SC. APPLIED ARTIFICIAL INTELLIGENCE

ONLINE STUDIES, FULL-TIME (36 MONTHS)

Semester			Module	Course Code	Course	ECTS credits	Type of Exam
FT	PT I	PT II					
1. Semester	1. Semester	1. Semester	Artificial Intelligence	DLBDSEAI01	Artificial Intelligence	5	Exam
			Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
			Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
2. Semester	2. Semester	2. Semester	Mathematics: Analysis	DLBDSMFC01	Mathematics: Analysis	5	Exam
			Collaborative Work	DLBSCSW01	Collaborative Work	5	Oral Assignment
			Statistics - Probability and Descriptive Statistics	DLBDSSPD01-01	Statistics - Probability and Descriptive Statistics	5	Exam
	3. Semester	3. Semester	Project: Object Oriented and Functional Programming with Python	DLBDSOFP01	Project: Object Oriented and Functional Programming with Python	5	Portfolio
			Mathematics: Linear Algebra	DLBDSMFLA01	Mathematics: Linear Algebra	5	Exam
			Intercultural and Ethical Decision-Making	DLBCSIDM01	Intercultural and Ethical Decision-Making	5	Case Study
3. Semester	3. Semester	4. Semester	Statistics - Inferential Statistics	DLBDSSI01	Statistics - Inferential Statistics	5	Exam
			Cloud Computing	DLBDSCC01	Cloud Computing	5	Exam
			Project: Cloud Programming	DLBSEPCP01_E	Project: Cloud Programming	5	Portfolio
	4. Semester	5. Semester	Machine Learning - Supervised Learning	DLBDSMLS01	Machine Learning - Supervised Learning	5	Exam
			Machine Learning - Unsupervised Learning and Feature Engineering	DLBDSMLUSL01	Machine Learning - Unsupervised Learning and Feature Engineering	5	Case Study
			Neural Nets and Deep Learning	DLBDSNNDL01	Neural Nets and Deep Learning	5	Oral Assignment
4. Semester	4. Semester	6. Semester	Introduction to Computer Vision	DLBAIPC01	Introduction to Computer Vision	5	Exam
			Project: Computer Vision	DLBAIPC01	Project: Computer Vision	5	Project Report
			Introduction to Reinforcement Learning	DLBAIRL01	Introduction to Reinforcement Learning	5	Exam
	5. Semester	7. Semester	Introduction to NLP	DLBAIINLP01	Introduction to NLP	5	Exam
			Project: NLP	DLBAIPNLP01	Project: NLP	5	Project Report
			Introduction to Data Protection and IT Security	DLBCSIDPITS01	Introduction to Data Protection and IT Security	5	Exam
4. Semester	5. Semester	8. Semester	Data Science Software Engineering	DLBDSDSSE01	Data Science Software Engineering	5	Exam
			Project: From Model to Production Environment	DLBDSMTP01	Project: From Model to Production Environment	5	Oral Project Report
			Seminar: Ethical Considerations in Data Science	DLBDSSECD01	Seminar: Ethical Considerations in Data Science	5	Research Essay
	6. Semester	9. Semester	User Experience	DLBMIUEX01_E	User Experience	5	Exam
			UX-Project OR Project: Edge AI	DLBMIUEX02_E OR DLBAIPEAI01	UX-Project OR Project: Edge AI	5	Project Report
			Introduction to Robotics	DLBROI01-01_E	Introduction to Robotics	5	Exam
5. Semester	7. Semester	10. Semester	Project: Agile Project Management	DLBCSAPM01	Project: Agile Project Management	5	Project Report
			ELECTIVE A*		e. g. Augmented, Mixed and Virtual Reality	10	
			ELECTIVE B*		e. g. Psychology of Human Computer Interaction	10	
	8. Semester	12. Semester	ELECTIVE C*		e. g. Data Engineer	10	
			Bachelor Thesis		Bachelor Thesis	9	Bachelor Thesis
					Thesis Defense	1	Presentation: Colloquium
Total							
180 ECTS credits							

Elective A:	Elective B:	Elective C:
Autonomous Driving Production Engineering, 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	Autonomous Driving Production Engineering, 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 Foreign Language Italian Foreign Language French Foreign Language German Foreign Language Spanish Studium Generale I and II Career Development AWS Cloud Specialization AI Prompting Techniques and Process Innovation with Copilot



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

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