CURRICULUM B.SC. APPLIED ARTIFICIAL INTELLIGENCE DISTANCE LEARNING FT PT | PT || Module ECTS Type of Exam Course Code Artificial Intelligence DLBDSEAIS01-01 Artificial Intelligence 5 Exam ntroduction to Programming with Python DLBDSIPWP01 ntroduction to Programming with Python Mathematics: Analysis DLBDSMFC01 DLBCSIAW01 Introduction to Academic Work Project: Object Oriented and Functional Programming in Project: Object Oriented and Functional Programming in Pythor Portfolio DLBDSOOFPP01 5 Python Internship or modules to choose 5 Mathematics: Linear Algebra DLBDSMFLA01 Mathematics: Linear Algebra 5 Exam Statistics: Probability and Descriptive Statistics DLBDSSPDS01-01 Statistics: Probability and Descriptive Statistics 5 Exam Statistics - Inferential Statistics DLBDSSIS01-01 Statistics - Inferential Statistics Exam Cloud Computing 5 Exam Cloud Computing Project: Cloud Programming DLBSEPCP01_E Project: Cloud Programming Portfolio ELECTIVES D Internship or modules to choose 5 Machine Learning - Supervised Learning DLBDSMLSL01 Machine Learning - Supervised Learning 5 Exam Machine Learning - Unsupervised Learning and Feature Machine Learning - Unsupervised Learning and Feature DLBDSMLUSL01 5 Case Study Engineering Neural Nets and Deep Learning DLBDSNNDL01-01 Neural Nets and Deep Learning 5 Oral Assignment Introduction to Computer Vision DLBAIICV01 Introduction to Computer Vision 5 Evam Project: Computer Vision DLBAIPCV01 5 Project Report ELECTIVES D Internship or modules to choose Introduction to Reinforcement Learning DLBAIIRL01 5 Introduction to Reinforcement Learning Exam Introduction to Data Protection and Cyber Security DLBCSIDPITS01 Introduction to Data Protection and Cyber Security 5 Exam 5. Semester 4. Semester Ethics and Legal Aspects in Al DLBAIBEELAAI01 Ethics and Legal Aspects in Al 5 Exam Introduction to NLP DI BAIINI PO1 Introduction to NI P 5 Exam Project: NLP DLBAIPNLP01 Project: NLP 5 Project Report FLECTIVES D Internship or modules to choose 5 Seminar: Ethical Innovation 5 Research Essay DLBAIBESEI01 Seminar: Ethical Innovation ELECTIVES A* e. g. Introduction to Robotics 5 5. Semester e. g. Mobile Robotics ELECTIVES B* 10 Embedded Systems Project: Edge Al 5 Project Report DLBAIPEAI01 Project: Edge Al ELECTIVES D 5 Internship or modules to choose e. g. Project: Applied Robotics with Robotic Platforms Seminar: Human-Robot Interaction FLECTIVES C* 10 10 Model Engineering DLBDSME01 Model Engineering 5 Case Study ₫ ELECTIVES D Internship or modules to choose DLBBT01 12. Bachelor Thesis Presentation: Colloquium DLBBT02 Thesis Defense 180 ECTS credits





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

The Ul International University of Applied Sciences offers you the flexibility to choose any available module you like from any seemester. 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.



Information about electives D:
Decide at the beginning between an internship at a company or modules from electives D. You will complete the internship with a partical reflection. If you decide on the modules from electives D, all modules from this area must be completed. Mixed forms of internship and compulsory electives D are not possible.



* Electives: One or two modules per elective to choose from, each 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

Recommended Elective Combination	Electives A:	Electives B:	Wahlpflichtbereich C:
Al & Robotics	Introduction to Robotics	Mobile Robotics Embedded Systems	Project: Applied Robotics with Robotic Platforms Seminar: Human-Robot Interaction
AI & XR	Augmented, Mixed and Virtual Reality	Project: X-Reality User Experience	Introduction to Motion Capture and Tracking Project: Al in XR
AI, Data & Cloud Engineering	Data Engineering	Project: AWS - Cloud Essentials Project: AWS - Cloud Advanced	Data Science Software Engineering Project: From Model to Production Environment
AI, Ethics & Society	Ethics and Sustainability in IT	Experience Psychology Human Computer Interaction	Intercultural and Ethical Decision-Making Seminar: Ethical and Social Aspects of XR
AI & Data Analytics	Data Quality and Data Wrangling	Business Intelligence Project: Business Intelligence	Advanced Data Analysis Project: Data Analysis
AI, Production & Automation	Production Engineering Industry 4.0	Automation and Robotics Digital Signal Processing	Self-Driving Vehicles Seminar: Current Topics and Trends in Self-Driving Technology

All Electives	Electives A:	Electives B:	Electives C:	Electives D:
	Introduction to Robotics Augmented, Mixed and Virtual Reality	Mobile Robotics Embedded Systems	Project: Applied Robotics with Robotic Platforms Seminar: Human-Robot Interaction	Internship: Bachelor Data Science and Al
	Data Engineering	Project: X-Reality	Introduction to Motion Capture and Tracking	Collaborative Work
	Ethics and Sustainability in IT	User Experience	Project: Al in XR	Project: AI Excellence with Creative Prompting Techniques
	Data Quality and Data Wrangling	Project: AWS - Cloud Essentials	Data Science Software Engineering	Digital Business Models
	Production Engineering Industry 4.0	Project: AWS - Cloud Advanced	Project: From Model to Production Environment	Project: Digital Business Models
	Mechanics - Kinematics	Experience Psychology	Intercultural and Ethical Decision-Making	Project: Generative AI in an Enterprise Context
	IT Architecture Management	Human Computer Interaction	Seminar: Ethical and Social Aspects of XR	Project: Digitalization and Automation Hackathon
		Business Intelligence	Advanced Data Analysis	
		Project: Business Intelligence	Project: Data Analysis	
		Automation and Robotics	Self-Driving Vehicles	
		Digital Signal Processing	Seminar: Current Topics and Trends in Self-Driving Technology	
		UX-Project	Studium Generale I	
		Sensor Technology	Studium Generale II	
		Database Modeling and Database Systems	Database Modeling and Database Systems	
		Big Data Technologies		