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	Simulation of Bo	troduction to boot Control <sup>1</sup> (online)		CAD	Mechanics	s - Dynamics	C/C++	CAD	Mechanics	s - Dynamics	C/C++	CAD	Mechanics - Dynamics	C/C++	
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				Robots	Robot Control <sup>1</sup>	(online)	(online)	Robots <sup>1</sup>	Robot Control <sup>1</sup>	(online)	(online)	Robots	obot Control <sup>1</sup> (online	) (online)	
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												Plants and Machines	(online)	(online)	
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Foreign Language German

Certificate Course German

Foreign Language German

Course Information				
Module	Course Code	Course	ECTS	Type of Exam
ntroduction to Robotics	DLBROIR01_E	Introduction to Robotics	5	Exam/Written Assignment
Mathematics II	DLBCSM201	Mathematics II	5	Exam
Scientific and Technical Fundamentals	DLBINGNAG01_E	Scientific and Technical Fundamentals	5	Exam
ntroduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
Fechnical Drawing	DLBROTD01_E	Technical Drawing	5	Exam
Mathematics: Analysis	DLBDSMFC01	Mathematics: Analysis	5	Exam
Mathematics: Linear Algebra	DLBDSMFLA01	Mathematics: Linear Algebra	5	Exam
Mechanics - Statics	DLBROMS01_E	Mechanics - Statics	5	Exam
Signals and Systems	DLBROSS01_E	Signals and Systems	5	Exam
Production Engineering	DLBDSEAR01	Production Engineering	5	Exam
ntroduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
Mechanics - Kinematics	DLBROMK01_E	Mechanics - Kinematics	5	Exam
Project: Design with CAD	DLBROPDCAD01_E	Project: Design with CAD	5	Oral Project Report
Mechanics - Dynamics	DLBROMD01_E	Mechanics - Dynamics	5	Exam
Programming with C/C++	DLBROEPRS01_E	Programming with C/C++	5	Portfolio
lectrical Engineering	DLBINGET01-01_E	Electrical Engineering	5	Exam
iensor Technology	DLBROST01_E	Sensor Technology	5	Exam
Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
Mechatronic Systems	DLBROMSY01_E	Mechatronic Systems	5	Exam
ontrol Systems Engineering	DLBROCSE01_E	Control Systems Engineering	5	Exam
Project: Robotics	DLBROPR01_E	Project: Robotics	5	Oral Project Report
Embedded Systems	DLBROES01_E	Embedded Systems	5	Exam
Project: Applied Robotics with Robotic Platforms	DLBROPARRP01_E	Project: Applied Robotics with Robotic Platforms	5	Oral Project Report
Seminar: Robots and Society	DLBROSRS01_E	Seminar: Robots and Society	5	Research Essay
Project: Modeling and Simulation of Robots	DLBROPMSR01_E	Project: Modeling and Simulation of Robots	5	Project Report
Project: Introduction to Robot Control	DLBROPIRC01_E	Project: Introduction to Robot Control	5	Project Report
Seminar: Human-Robot Interaction	DLBROSHRI01_E	Seminar: Human-Robot Interaction	5	Research Essay
Safety of Industrial Plants and Machines	DLBROSIPM01_E	Safety of Industrial Plants and Machines	5	Exam
ELECTIVE A*		e.g. Industrial Robotics and Automation	10	
ELECTIVE B*		e.g. Autonomous Driving	10	
ELECTIVE C*		e.g. IT Security	10	
Bachelor Thesis		Bachelor Thesis	9	Bachelor Thesis
		Thesis Defense	1	Presentation: Colloquium

Data Science and Deep Learning

Python for Software Engineering

Deep Learning

Data Analytics and Big Data

Data Science Software Engineering

Object Oriented and Functional Programming with Python

\* 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.

Note: The Electives are only offered in distance learning (online).

Foreign Language German

Studium Generale

Internship

Certificate Course German

Foreign Language German

Data Science and Deep Learning

Python for Software Engineering

Data Science Software Engineering

Object Oriented and Functional Programming with Python

Deep Learning

Data Analytics and Big Data