		LEAR	NING			-		
S FT	emest PT I	er PT II	Module	Course Code	Course	ECTS	Type of Exam	
1. Semester	. 1. Semester	1. Semester	Engineering: Branches, Methods, Applications, Trends	DLBENGEBMAT01	Engineering: Branches, Methods, Applications, Trends	5	Written Assignment	INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES
			Introduction to Academic Work	BWIR01-01	Introduction to Academic Work	5	Basic Workbook	
			Mathematics: Linear Algebra	DLBDSMFLA01	Mathematics: Linear Algebra	5	Exam	
		2. Semester	Fundamentals of Physics	DLBWINGP01_E	Fundamentals of Physics	5	Exam	Ø
			Introduction to the Internet of Things	DLBINGEIT01_E	Introduction to the Internet of Things	5	Exam	You've already planned out exact how your course schedule should Lock? Wonderful! The IU International University of Applied Sciences offers you the flexibility to choose any module y like from any semester. You can w on a number of modules at the sar time or one by one.
			Introduction to Computer Science	DLBCSICS01	Introduction to Computer Science	5	Exam	
	2. Semester	3. Semester	Fundamentals of Chemistry	DLBMETGC01_E	Fundamentals of Chemistry	5	Exam	
			Production Engineering	DLBDSEAR01	Production Engineering	5	Exam	
Semester			Mechanics - Statics	DLBROMS01_E	Mechanics - Statics	5	Exam	
2. Serr	Semester	ter	Automation Technology	DLBROEIRA02_E	Automation Technology	5	Exam	
		Semester	Mathematics: Analysis	DLBDSMFC01	Mathematics: Analysis	5	Exam	☑
		4. S	Signals and Systems	DLBROSS01_E	Signals and Systems	5	Exam	
	3. 5	Semester	Control Systems Engineering	DLBROCSE01_E	Control Systems Engineering	5	Exam	At the beginning, choose modules particularly interest you or that yo can use directly in your job. This motivates you and gives you succe right from the start.
			Materials Science for Engineers	DLBMETGWK01_E	Materials Science for Engineers	5	Exam	
Semester	4. Semester	5.S	Sensor Technology	DLBROST01_E	Sensor Technology	5	Exam	
3. Serr		6. Semester	Electrical Engineering	DLBINGET01-01_E	Electrical Engineering	5	Exam	
.,			Mechanics - Kinematics and Dynamics	DLBROMKD01_E	Mechanics - Kinematics and Dynamics	5	Exam	
			Technical Mechanics: Elastostatics	DLBBIWTM01_E	Technical Mechanics: Elastostatics	5	Exam	Ø
	6. Semester 5. Semester	9. Semester 7. Semester	Introduction to Electromagnetics	DLBENGEEE01	Introduction to Electromagnetics	5	Exam	A module with two courses consists an introduction and a consolidatior in order to successfully complete a module, you must successfully pass both the introduction and the consolidation of the module within framework of a module examinatio
			Fundamentals of Systems Simulation	DLBENGFSS01	Fundamentals of Systems Simulation	5	Exam or Advanced Workbook	
lester			Introduction to Data Protection and Cyber Security	DLBCSIDPITS01	Introduction to Data Protection and Cyber Security	5	Exam	
4. Semester			Statistics - Probability and Descriptive Statistics	DLBDSSPDS01	Statistics - Probability and Descriptive Statistics	5	Exam	
			Introduction to Programming with Python	DLBENGPSS01	Introduction to Programming with Python	5	Exam	
			Project: Simulation of Systems	DLBENGPSS01	Project: Simulation of Systems	5	Project Report	
5. Semester			Fundamentals of Data-Driven Engineering	DLBENGFDDE01	Fundamentals of Data-Driven Engineering	5	Case Study	
			Seminar: The Big Data Society	DLBENGSTBDS01	Seminar: The Big Data Society	5	Research Essay	Ø
			Electrical Machines and Energy Technology	DLBAETEME01_E	Electrical Machines and Energy Technology	5	Exam	<ul> <li>* Electives: Choose three modules every elective module can only be chosen once.</li> <li>FT: Full-Time, 36 months PT II: Part-Time I, 48 months</li> <li>PT II: Part-Time I, 72 months</li> </ul>
	Semester		Project: Control Unit Design for a Mechanical System	DLBENGEESD01	Project: Control Unit Design for a Mechanical System	5	Project Report	
			ELECTIVE A*		e.g. Robot Kinematics and Dynamics	10		
6. Semester	7.S	10.	ELECTIVE B*		e.g. Simulation and Control of Robots	10		
		11.	ELECTIVE C*		e.g. Embedded Systems and Programming with C/C++	10		
	ő	12.	Bachelor Thesis		Bachelor Thesis Thesis Defense	9	Bachelor Thesis Presentation: Colloquium	

Specialization Track	Elective A:	Elective B:	Elective C:
Robotics	Robot Kinematics and Dynamics	Simulation and Control of Robots	Embedded Systems and Programming with C/C++
Mechatronics	Mechatronic Systems and Design	Electrical Drive Technology and Fluid Mechanics	Embedded Systems and Programming with C/C++
Cybersecurity Engineering	Operating Systems, Networks and Network Forensics	Pentesting and DevSecOps	Cryptography and IT-Law
Data-Science Engineering	Functional Programming with Python and Inferential Statistics	Machine Learning - Supervised and Unsupervised Learning	Databases and Explorative Data Analysis and Visualization
Engineering Management	Supply Chain Management and Innovation	Agile Project Management and Smart Products	Smart Services
Electrical Engineering: Electromobility	Introduction to Electronics and Electronic Circuits	Electro Mobility	Autonomous Driving
Electrical Engineering: Digital Electronics	Introduction to Electronics and Electronic Circuits	Digital and Information Technology and Programming with C/C++	Embedded Systems, Microcontrollers and Logical Circuits
Electrical Engineering: Renewable Energies	Introduction to Electronics and Electronic Circuits	Energy Technology	Renewable Energies
All available Electives	Elective A:	Elective B:	Elective C:
	Introduction to Electronics and Electronic Circuits Mechatronic Systems and Design Robot Kinematics and Dynamics Supply Chain Management and Innovation Operating Systems, Networks and Network Forensics Functional Programming with Python and Inferential Statistics	Electro Mobility Digital and Information Technology and Programming with C/C++ Energy Technology Electrical Drive Technology and Fluid Mechanics Simulation and Control of Robots Mechatronic Systems and Programming with C/C++ Agile Project Management and Smart Products Pentesting and DevSecOps Machine Learning Supervised and	Autonomous Driving Embedded Systems, Microcontrollers and Logical Circuits Embedded Systems and Programming with C/C++ Smart Services Renewable Energies Cryptography and IT-Law Databases and Explorative Data Analysis and Visualization

## website.

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