CURRICULUM B.ENG. ROBOTICS

DISTANCE LEARNING

	mest		Module	Course Code	Course	ECTS	Type of Exam
FT	PTI	PT II					
	1. Semester	1. Semester	Introduction to Robotics	DLBROIR01_E	Introduction to Robotics	5	Exam
1. Semester			Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Workbook
			Scientific and technical fundamentals	DLBINGNAG01_E	Scientific and technical fundamentals	5	Exam
		ster	Technical Drawing	DLBROTD01_E	Technical Drawing	5	Exam
		Semester	Mathematics: Linear Algebra	DLBDSMFLA01	Mathematics: Linear Algebra	5	Exam
		2.	Mathematics II	DLBCSM201	Mathematics II	5	Exam
2. Semester	2. Semester	3. Semester	Production Engineering	DLBDSEAR01	Production Engineering	5	Exam
			Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
			Mathematics: Analysis	DLBDSMFC01	Mathematics: Analysis	5	Exam
	Semester	4. Semester	Mechanics - Statics	DLBROMS01_E	Mechanics - Statics	5	Exam
			Electrical Engineering	DLBINGET01-01_E	Electrical Engineering	5	Exam
			Project: Design with CAD	DLBROPDCAD01_E	Project: Design with CAD	5	Oral Project Report
3. Semester	3.5	5. Semester	Sensor Technology	DLBROST01_E	Sensor Technology	5	Exam
			Signals and Systems	DLBROSS01_E	Signals and Systems	5	Exam
	4. Semester		Mechanics - Kinematics	DLBROMK01_E	Mechanics - Kinematics	5	Exam
		6. Semester	Mechanics - Dynamics	DLBROMD01_E	Mechanics - Dynamics	5	Exam
			Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
			Programming with C/C++	DLBROEPRS01_E	Programming with C/C++	5	Portfolio
	6. Semester 5. Sen	.e.	Mechatronic Systems	DLBROMSY01_E	Mechatronic Systems	5	Exam
		7. Semester	Control Systems Engineering	DLBROCSE01_E	Control Systems Engineering	5	Exam
ester			Project: Modeling and Simulation of Robots	DLBROPMSR01_E	Project: Modeling and Simulation of Robots	5	Project Report
4. Semester		er	Project: Introduction to Robot Control	DLBROPIRC01_E	Project: Introduction to Robot Control	5	Project Report
Ì		Semester	Embedded Systems	DLBROES01_E	Embedded Systems	5	Exam
		8.5	Project: Robotics	DLBROPR01_E	Project: Robotics	5	Oral Project Report
		Semester	Seminar: Human-Robot Interaction	DLBROSHRI01_E	Seminar: Human-Robot Interaction	5	Research Essay
er			Project: Applied Robotics with Robotic Platforms	DLBROPARRP01_E	Project: Applied Robotics with Robotic Platforms	5	Oral Project Report
Semester		9. Sem	Seminar: Robots and Society	DLBROSRS01_E	Seminar: Robots and Society	5	Research Essay
5. Se	Semester	0,	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	
6. Semester	7. Se	10.	ELECTIVE B*		e.g. Service Robotics	10	
		11.	ELECTIVE C*		e.g. Introduction to Cognitive Robotics	10	
	8	.7	Bachelor Thesis		Bachelor Thesis	9	Bachelor Thesis
	Total 180 ECTS				Thesis Defense	11	Presentation: Colloquium

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You've already planned out exactly how your course schedule should look? Wonderful! The IVI International University of Applied Sciences offers you the Rexibility 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.

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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

Industrial Robotics and Automation Service Robotics Introduction to Cognitive Robotics	Introduction to Cognitive Robotics Industrial Robotics and Automation Service Robotics
Introduction to Cognitive Robotics	
	Service Robotics
Al Specialist	Industrial Robotics and Automation
Autonomous Driving	Service Robotics
Data Science and Deep Learning	Introduction to Cognitive Robotics
Python for Software Engineering	Al Specialist
IT Security	Autonomous Driving
Mobile Software Engineering	Data Science and Deep Learning
Foreign Language Italian	Python for Software Engineering
Foreign Language French	IT Security
German Language	Mobile Software Engineering
Foreign Language Spanish	Foreign Language Italian
	Foreign Language French
	German Language
	Foreign Language Spanish
	Autonomous Driving Data Science and Deep Learning Python for Software Engineering IT Security Mobile Software Engineering Foreign Language Italian Foreign Language French German Language

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