## CURRICULUM B.ENG. ROBOTICS

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Se	mest	er	ARNING Module	Course Code	Course	ECTS	Type of Exam
FT	PTI	PT II	Introduction to Robotics	DLBROIR01_E	Introduction to Robotics	5	Exam
	,	Semester	Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Workbook
ster	1. Semester	1. Ser	Scientific and technical fundamentals	DLBINGNAG01_E	Scientific and technical fundamentals	5	Exam
1. Semester	1. Ser		Technical Drawing	DLBROTD01_E	Technical Drawing	5	Exam
1.		Semester	Mathematics: Linear Algebra	DLBDSMFLA01	Mathematics: Linear Algebra	5	Exam
-		2. Ser	Mathematics II	DLBCSM201	Mathematics II	5	Exam
	iter	-	Production Engineering	DLBDSEAR01	Production Engineering	5	Exam
	Semester	Semester	Introduction to Programming with Python	DLBDSIPWP01		5	Exam
ter	2.5	3. Sen	Mathematics: Analysis		Introduction to Programming with Python		Exam
Semester			Mechanics - Statics	DLBDSMFC01	Mathematics: Analysis	5	Exam
2. 5		Semester		DLBROMS01_E	Mechanics - Statics	5	
	Semester	4. Sen	Electrical Engineering	DLBINGET01-01_E	Electrical Engineering	5	Exam
	3. Sem		Project: Design with CAD	DLBROPDCAD01_E	Project: Design with CAD	5	Oral Project Report
	,	Semester	SensorTechnology	DLBROST01_E	Sensor Technology	5	Exam
i-		5. Sem	Signals and Systems	DLBROSS01_E	Signals and Systems	5	Exam
3. Semester	er	u,	Mechanics - Kinematics	DLBROMK01_E	Mechanics - Kinematics	5	Exam
	4. Semester	6. Semester	Mechanics - Dynamics	DLBROMD01_E	Mechanics - Dynamics	5	Exam
	S		Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
			Programming with C/C++	DLBROEPRS01_E	Programming with C/C++	5	Portfolio
		ster	Mechatronic Systems	DLBROMSY01_E	Mechatronic Systems	5	Exam
Ļ.	ster	Semester	Control Systems Engineering	DLBROCSE01_E	Control Systems Engineering	5	Exam
Semester	Semester	ster 7.	Project: Modeling and Simulation of Robots	DLBROPMSR01_E	Project: Modeling and Simulation of Robots	5	Project Report
4. Se	5.		Project: Introduction to Robot Control	DLBROPIRC01_E	Project: Introduction to Robot Control	5	Project Report
		Semester	Embedded Systems	DLBROES01_E	Embedded Systems	5	Exam
		œ,	Project: Robotics	DLBROPR01_E	Project: Robotics	5	Oral Project Report
	Semester	9. Semester	Seminar: Human-Robot Interaction	DLBROSHRI01_E	Seminar: Human-Robot Interaction	5	Research Essay
ster	6. Ser		Project: Applied Robotics with Robotic Platforms	DLBROPARRP01_E	Project: Applied Robotics with Robotic Platforms	5	Oral Project Report
Semester			Seminar: Robots and Society	DLBROSRS01_E	Seminar: Robots and Society	5	Research Essay
r.	ter		Safety of Industrial Plants and Machines	DLBROSIPM01_E	Safety of Industrial Plants and Machines	5	Exam
	Semester	10.	ELECTIVE A*		e.g. Industrial Robotics and Automation	10	
	7. 9	1	ELECTIVE B*		e.g. Service Robotics	10	
Semester		11.	ELECTIVE C*		e.g. Introduction to Cognitive Robotics	10	
6. 5	80	12.	Bachelor Thesis		Bachelor Thesis Thesis Defense	9	Bachelor Thesis Presentation: Colloquium
	Total 30 ECT	s			,	-	

Elective A:	Elective B:	Elective C:			
Introduction to Cognitive Robotics	Industrial Robotics and Automation	Introduction to Cognitive Robotics			
Industrial Robotics and Automation	Service 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 Turkish	Foreign Language French			
		German Language			
		Foreign Language Spanish			
		Foreign Language Turkish			

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INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES ₫

You've already planned out exactly how your course schedule should look? Wonderful! The IU offers you the flexibility 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.

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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.

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\* 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

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