CURRICULUM B.ENG. ROBOTICS

DISTANCE LEARNING

Seme T PT			Module	Course Code	Course	ECTS credits	Type of Exam
			Introduction to Robotics	DLBROIR01_E	Introduction to Robotics	5	Exam or Written Assignment
F	ū	1. Semester	Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
Semester	Salles Salles	1. S	Mathematics II	DLBCSM201	Mathematics II	5	Exam
1. Semester	-i	ter	Fundamentals of Physics	DLBWINGP01_E	Fundamentals of Physics	5	Exam
		Semester	Mathematics: Linear Algebra	DLBDSMFLA01	Mathematics: Linear Algebra	5	Exam
		- 5	Technical Drawing	DLBROTD01_E	Technical Drawing	5	Exam
Semester	2002	ter	Production Engineering Industry 4.0	DLBDSEAR01	Production Engineering Industry 4.0	5	Exam
2. Serr	7. 3cl	Semester	Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
a salles			Mathematics: Analysis	DLBDSMFC01	Mathematics: Analysis	5	Exam
7. Jell		ter	Mechanics - Statics	DLBROMS01_E	Mechanics - Statics	5	Exam
	D.	Semester	Electrical Engineering	DLBINGET01-01_E	Electrical Engineering	5	Exam
3. Semester	2		Project: Design with CAD	DLBROPDCAD01_E	Project: Design with CAD	5	Oral Project Report
3.8		er	Sensor Technology	DLBROST01_E	Sensor Technology	5	Exam
		Semester	Signals and Systems	DLBROSS01_E	Signals and Systems	5	Exam
2			Mechanics - Kinematics	DLBROMK01_E	Mechanics - Kinematics	5	Exam
o. Selliester	2002	.er	Mechanics - Dynamics	DLBROMD01_E	Mechanics - Dynamics	5	Exam
3. 3el 4. Semester	- 24	Semester	Collaborative Work	DLBCSCW01	Collaborative Work	5	Oral Assignment
'			Programming with C/C++	DLBROEPRS01_E	Programming with C/C++	5	Portfolio
		ter	Mechatronic Systems	DLBROMSY01_E	Mechatronic Systems	5	Exam
je.	Į.	7. Semester	Control Systems Engineering	DLBROCSE01_E	Control Systems Engineering	5	Exam
Semester	D D	7.5	Project: Modeling and Simulation of Robots	DLBROPMSR01_E	Project: Modeling and Simulation of Robots	5	Project Report
5. Seme	ń	ter	Project: Introduction to Robot Control	DLBROPIRC01_E	Project: Introduction to Robot Control	5	Project Report
		Semester	Embedded Systems	DLBROES01_E	Embedded Systems	5	Exam
			Project: Robotics	DLBROPR01_E	Project: Robotics	5	Oral Project Report
ester	asca		Seminar: Human-Robot Interaction	DLBROSHRI01_E	Seminar: Human-Robot Interaction	5	Research Essay
G. Semester	0.00	Semester	Project: Applied Robotics with Robotic Platforms	DLBROPARRP01_E	Project: Applied Robotics with Robotic Platforms	5	Oral Project Report
9		9. Sem	Seminar: Robots and Society	DLBROSRS01_E	Seminar: Robots and Society	5	Research Essay
i .	Į.		Safety of Industrial Plants and Machines	DLBROSIPM01_E	Safety of Industrial Plants and Machines	5	Exam
7. Semester	S		ELECTIVE A*		e.g. Industrial Robotics and Automation	10	
		10.	ELECTIVE B*		e.g. Service Robotics	10	
201102		11.	ELECTIVE C*		e.g. Cognitive Robotics	10	
n d	o	12.	Bachelor Thesis		Bachelor Thesis Thesis Defense	9	Bachelor Thesis Presentation: Colloquiu

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INTERNATIONAL						
UNIVERSITY OF						
APPLIED SCIENCES						
ALL LIED SCIENCES						

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

The IU International University of Applied Sciences offers you the flexibility to choose any available 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.

* Electives: Choose three modules, every elective module can only be chosen once. **Only availale in mystudies

FT: Full-Time, 36 months PT I: Part-Time I, 48 months PT II: Part-Time II, 72 months

Electric 711
Industrial Robotics and Automation
Service Robotics
Cognitive Robotics

Industrial Robotics and Automation Service Robotics Service Robotics
Cognitive Robotics
Al Specialist
Autonomous Driving
Data Science and Deep Learning
Python for Software Engineering
IT Security
Mobile Software Engineering

Foreign Language

Industrial Robotics and Automation Service Robotics Service Robotics
Cognitive Robotics
Al Specialist
Autonomous Driving
Data Science and Deep Learning
Python for Software Engineering
IT Security
Mobile Software Engineering Mobile Software Engi Internship** Studium Generale Foreign Language Mastering Prompts Career Development

Elective C:

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