DISTANCE LEARNING							
S	emest	er PT II	Module	Course Code	Course	ECTS	Type of Exam
1. Semester		emester	Software Engineering Principles	IGIS01-01_E	Software Engineering Principles	5	Exam
	1. Semester		Introduction to Academic Work	DLBCSIAW01	Introduction to Academic Work	5	Basic Workbook
		1. S	Requirements Engineering	DLBCSRE01	Requirements Engineering	5	Exam
		ter	Introduction to Programming with Python	DLBDSIPWP01	Introduction to Programming with Python	5	Exam
		emes	Project: Programming with Python	DLBFTPPP01_E	Project: Programming with Python	5	Oral Project Report
		2.5	ELECTIVES D		Internship or modules to choose	5	
2. Semester	2. Semester	3. Semester	Web Application Development	DLBCSWAD01	Web Application Development	5	Advanced Workbook
			Object-oriented Programming with Java	DLBCSOOPJ01	Object-oriented Programming with Java	5	Exam
			Database Modeling and Database Systems	DLBCSDMDS01	Database Modeling and Database Systems	5	Exam
	semester	4. Semester	Specification	DLBCSS01	Specification	5	Exam
			Project: Getting started in Web Programming	DLBITPEWP01_E	Project: Getting started in Web Programming	5	Portfolio
			ELECTIVES D		Internship or modules to choose	5	
3. Semester	3.5	5. Semester	Algorithms, Data Structures, and Programming Languages	DLBCSL01-02	Algorithms, Data Structures, and Programming Languages	5	Case Study
			DevOps and Continuous Delivery	DLBSEPDOCD01_E	DevOps and Continuous Delivery	5	Case Study
	4. Semester		Software Architecture	DLBSESA01_E	Software Architecture	5	Case Study
		6. Semester	Software Quality Assurance	DLBCSSQA01	Software Quality Assurance	5	Exam
			Project: General Programming with C/C++	DLBMINPAPCC01_E	Project: General Programming with C/C++	5	Portfolio
			ELECTIVES D		Internship or modules to choose	5	
4. Semester	5. Semester	7. Semester	Ethics and Sustainability in IT	DLBSEPENIT01_E	Ethics and Sustainability in IT	5	Case Study
			Techniques and methods for agile software development	IWNF01_E	Techniques and methods for agile software development	5	Exam
			Mobile Software Engineering	DLBCSEMSE01-01	Mobile Software Engineering	5	Case Study
		Semester	Seminar: Software Engineering	ISSE01_E	Seminar: Software Engineering	5	Research Essay
			Project: Software Engineering	DLBCSPSE01	Project: Software Engineering	5	Project Report
		80	ELECTIVES D		Internship or modules to choose	5	
6. Semester 5. Semester	6. Semester		ELECTIVES A*		ELECTIVES A*	10	
		9. Semester	ELECTIVES B*		ELECTIVES A*	10	
			Project: Cloud Programming		Project: Cloud Programming	5	Portfolio
	7. Semester		ELECTIVES D		Internship or modules to choose	5	
			ELECTIVES C*		e.g.	10	
		1	Project: Software Development with AI	DLBSEPPSD01-01_E	Project: Software Development with AI	5	Oral Project Report
	<i></i>	11.	ELECTIVES D		ELECTIVES D	5	
	~	12.	Bachelor Thesis	DLBBT01 DLBBT02	Bachelor Thesis Thesis Defense	9 1	Bachelor Thesis Presentation: Colloquium
lotal 180 ECTS credits							

IU INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

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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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Information about electives D: Decide at the beginning between an internship at a company or modules from electives D. You will complete the internship with a practical reflection. If you decide on the modules from electives D, all modules from this area must be completed. Mixed forms of internship and compulsory electives D are not possible.

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* Electives: Two modules per elective to choose from, each 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

Electives A: Introduction to Data Protection and Cyber Security Cloud Computing Augmented, Mixed and Virtual Reality Project: X-Reality Design Basics: Seeing and Understanding User Experience Cryptography Mathematics 1 Digital and Information Technology Introduction to the Internet of Things Introduction to Data Science Deep Learning Business Intelligence Project: Object Oriented and Functional Programming with Python Artificial Intelligence Business 101 Introduction to User Research

Electives B:

User Interface and Ergonomics IT Infrastructure Introduction to Computer Graphics Seminar: Ethical and Social Aspects of XR UX Prototyping Project: AWS - Cloud Essentials Project: AWS - Cloud Advanced System Pentestings Basics Threat Modeling Introduction to Robotics Embedded Systems Statistical Computing Exploratory Data Analysis and Visualization Project: Build a Data Mart in SQL Project: Build a Data Mart in SQL Project: ULP Change Management Project: Design Thinking for IT

Electives C:

Data Structures and Java Class Library Programming of Web Applications - Web-based Business Information Systems Object-oriented Programming with C# Application Mobile App Project: Application Design DevSecOps and Common Software Weaknesses Project: Application Design Sensor Technology Project: Sensors and Actors Cloud Computing Project: Design for the Internet of Things Advanced Data Analysis Project: Data Engineering Project: Data Engineering Project: Cabat Engineering Project: Stat Excellence with Creative Prompting Techniques Project: State Endingens Studium Generale I

Electives D:

Internship: Computer Science & Business Information Systems or Intercultural and Ethical Decision-Making Collaborative Work Computer Science and Society Digital Business Models IT Project Management Project: Digitalization and Automation Hackathon