CURRICULUM B.SC. SOFTWARE DEVELOPMENT DISTANCE LEARNING Semester FT PT I PT II Module Type of Exam **ECTS Course Code** Course Software Engineering Principles IGIS01_E Software Engineering Principles 5 Exam INTERNATIONAL Introduction to Academic Work **UNIVERSITY OF** DLBCSIAW01 Basic Workbook Introduction to Academic Work 1. Semester **APPLIED SCIENCES** Semester Requirements Engineering DLBCSRE01 Requirements Engineering 5 Exam V DLBCSS01 Specification Specification 5 Exam Object-oriented Programming with Java DLBCSOOPJ01 Object-oriented Programming with Java 5 Exam You've already planned out exactly Database Modeling and Database Systems Database Modeling and Database Systems DLBCSDMDS01 5 Exam how your course schedule should look? Wonderful! The IU offers you the Semester Data structures and Java class library Exam DLBCSDSJCL01 Data structures and Java class library 5 flexibility to choose any module you like from any semester. You can work on a number of modules at the same DLBCSCW01 Oral Assignment Collaborative Work Collaborative Work 2. time or one by one. Semester Web Application Development DLBCSWAD01 Web Application Development 5 Exam Algorithms, Data Structures, and Programming Languages DLBCSL01 Algorithms, Data Structures, and Programming Languages Exam DLBCSSQA01 Software Quality Assurance 5 Software Quality Assurance Exam Semester IT Architecture Management DLBCSEITPAM02 IT Architecture Management 5 Exam 3 Programming Information Systems with Java EE IPWA02_E Programming Information Systems with Java EE 5 Exam At the beginning, choose modules that particularly interest you or that you Ethics and Sustainability in IT DLBSEPENIT01_E Ethics and Sustainability in IT Case Study can use directly in your job. This motivates you and gives you success right from the start. IT Project Management Exam DLBCSEITPAM01 IT Project Management 5 4. Semester Techniques and methods for agile software development IWNF01_E Techniques and methods for agile software development 5 Exam Introduction to Mobile Software Engineering IWMB01_E Mobile Software Engineering 5 Exam Research Essay Seminar: Software Engineering ISSE01_E Seminar: Software Engineering Project: Agile Software Engineering Project: Agile Software Engineering Project Report IT Infrastructure DLBSEPITI01_E IT Infrastructure 5 Exam A module with two courses consists of Semester an introduction and a consolidation. Semester IT-Service Management DLBCSITSM01 IT-Service Management 5 Exam In order to successfully complete a module, you must successfully pass 5. both the introduction and the Project: Mobile Software Engineering Portfolio IWMB02-01_E Project: Mobile Software Engineering 4. consolidation of the module within the framework of a module examination. Cloud Programming Portfolio DLBSEPCP01_E Cloud Programming 5 Introduction to Data Protection and IT Security DLBCSIDPITS01 Introduction to Data Protection and IT Security 5 Exam Semester DevOps and Continuous Delivery DevOps and Continuous Delivery DLBSEPDOCD01_E Case Study $\sqrt{}$ User Interface Design and Ergonomics User Interface Design and Ergonomics DLBMIUID01_E Exam Semester Introduction to Programming with Python DLBDSIPWP01 Introduction to Programming with Python 5 Exam * Electives: Choose three modules, 5. Project: Software Development Oral Project Report DLBSEPPSD01_E Project: Software Development every elective module can only be Semester chosen once. e.g. Data Science and object oriented programming with **ELECTIVE A*** 10 10. FT: Full-Time, 36 months PT I: Part-Time I, 48 months **ELECTIVE B*** e.g. Internet of Things and Embedded Systems 10 Semester PT II: Part-Time II, 72 months **ELECTIVE C*** 10 e.g. Augmented, Mixed and Virtual Reality ∞

Bachelor Thesis

Thesis Defense

Mathematics Basics
Mathematics: Linear Algebra and Analysis
Statistics Basics
Data Science and object oriented programming with Python
Internet of Things and Embedded Systems
Robotics and Production Engineering
International Management and Leadership
International Marketing and Branding

Bachelor Thesis

6.

Total 180 ECTS

Applied Sales

Financial Services

Supply Chain Management

Business Intelligence
Smart Devices
Smart Factory
Smart Mobility
Smart Services
IT Security Consulting
Business Consulting
Augmented, Mixed and Virtual Reality
Digital Business
Infrastructure and Operations
Data Engineer
User Experience
Al Specialist

Elective C:

Studium Generale

(i)

Bachelor Thesis

Presentation: Colloquium

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