

## CURRICULUM B.ENG. ENGINEERING MANAGEMENT

## DISTANCE LEARNING

| Semester                            |              |              | Module   | Course Code                         | Course   | ECTS credits                        | Type of Exam                     |   |                           |
|-------------------------------------|--------------|--------------|--|-------------------------------------|--|-------------------------------------|----------------------------------|---|---------------------------|
| FT                                  | PT I         | PT II        |  |                                     |  |                                     |                                  |   |                           |
| 1. Semester                         | 1. Semester  | 1. Semester  | Business 101                                   | DLBBAB01_E                          | Business 101   | 5                                   | Exam or Written Assignment       |   |                           |
|                                     |              |              | Introduction to Academic Work                  | DLBCSIAW01                          | Introduction to Academic Work  | 5                                   | Basic Workbook                   |   |                           |
|                                     |              |              | Technical Drawing                              | DLBROT01_E                          | Technical Drawing  | 5                                   | Exam                             |   |                           |
|                                     |              | 2. Semester  | 2. Semester                                    | Fundamentals of Physics             | DLBWINGP01-01_E  | Fundamentals of Physics             | 5                                | Exam  |                           |
|                                     |              |              |  | Project: Business Model Development | DLBEPPGE01_E   | Project: Business Model Development | 5                                | Oral Project Report                         |                           |
| 2. Semester                         | 2. Semester  | 2. Semester  | ELECTIVES D                                    |                                     | Internship or modules to choose                                      | 5                                   |                                  |   |                           |
|                                     |              |              | Mathematics II                                 | DLBCSM201                           | Mathematics II   | 5                                   | Exam                             |   |                           |
|                                     |              | 3. Semester  | 3. Semester                                    | Project: Programming with C/C++     | DLBROEPS01_E   | Project: Programming with C/C++     | 5                                | Portfolio                                   |                           |
|                                     |              |              |  | Accounting and Balancing            | DLBEPEAB01   | Accounting and Balancing            | 5                                | Exam  |                           |
|                                     |              |              |  | Marketing I<br>Marketing II         | BMAR01-02_E<br>BMAR02-02_E   | Marketing I<br>Marketing II         | 5                                | Exam  |                           |
| 3. Semester                         | 3. Semester  | 4. Semester  | Project: Design with CAD                       | DLBROPDCAD01_E                      | Project: Design with CAD   | 5                                   | Oral Project Report              |   |                           |
|                                     |              |              | ELECTIVES D                                    |                                     | Internship or modules to choose                                      | 5                                   |                                  |   |                           |
|                                     |              | 5. Semester  | 5. Semester                                    | Electrical Engineering              | DLBINGET01-01_E  | Electrical Engineering              | 5                                | Exam  |                           |
|                                     |              |              |  | Production Engineering Industry 4.0 | DLBDSEAR01   | Production Engineering Industry 4.0 | 5                                | Exam  |                           |
|                                     |              |              |  | Handling Technology                 | DLBROEIRA01_E  | Handling Technology                 | 5                                | Exam  |                           |
| 3. Semester                         | 4. Semester  | 6. Semester  | Seminar: Current Topics in Engineering Ecology | DLBWINGSAT01_E                      | Seminar: Current Topics in Engineering Ecology                       | 5                                   | Research Essay                   |   |                           |
|                                     |              |              | Project: Agile Project Management              | DLBCSAPM01                          | Project: Agile Project Management                                    | 5                                   | Project Report                   |   |                           |
|                                     |              |              | ELECTIVES D                                    |                                     | Internship or modules to choose                                      | 5                                   |                                  |   |                           |
|                                     |              | 4. Semester  | 5. Semester                                    | 7. Semester                         | Digital Business Models  | DLBLODB01_E                         | Digital Business Models          | 5   | Exam or Advanced Workbook |
|                                     |              |              |  |                                     | Corporate Finance and Investment                                     | DLBCFIE01                           | Corporate Finance and Investment | 5   | Written Assignment        |
| Mechanics - Kinematics and Dynamics | DLBROMKD01_E |              |  |                                     | Mechanics - Kinematics and Dynamics                                  | 5                                   | Exam                             |   |                           |
| 8. Semester                         | 8. Semester  |              |  | Principles of Management            | DLBBAPM01_E  | Principles of Management            | 5                                | Case Study                                  |                           |
|                                     |              |              |  | Automation Technology               | DLBROEIRA02_E  | Automation Technology               | 5                                | Exam  |                           |
| 5. Semester                         | 6. Semester  | 9. Semester  | ELECTIVES D                                    |                                     | Internship or modules to choose                                      | 5                                   |                                  |   |                           |
|                                     |              |              | ELECTIVES A*                                   |                                     | e. g. Circular Economy, Safety of Industrial Plants and Machines     | 10                                  |                                  |   |                           |
|                                     |              |              | ELECTIVES B*                                   |                                     | e. g. Supply Chain Management I, Product Development in Industry 4.0 | 10                                  |                                  |   |                           |
|                                     |              | 10. Semester | 10. Semester                                   | Project: Production and Logistics   | DLBLOPPL01_E   | Project: Production and Logistics   | 5                                | Project Report                              |                           |
|                                     |              |              |  | ELECTIVES D                         |  | Internship or modules to choose     | 5                                |   |                           |
| 6. Semester                         | 8. Semester  | 11. Semester | ELECTIVES C*                                   |                                     | e.g. Supply Chain Management II, Digital Future Commerce             | 10                                  |                                  |   |                           |
|                                     |              |              | Project: Smart Product Solutions               | DLBIEPSP01                          | Project: Smart Product Solutions                                     | 5                                   | Oral Project Report              |   |                           |
|                                     |              |              | ELECTIVES D                                    |                                     | Internship or modules to choose                                      | 5                                   |                                  |   |                           |
|                                     |              | 12. Semester | 12. Semester                                   | Bachelor Thesis                     | DLBBT01<br>DLBBT02   | Bachelor Thesis<br>Thesis Defense   | 9<br>1                           | Bachelor Thesis<br>Presentation: Colloquium |                           |
|                                     |              |              |  | Total                               |  |                                     |                                  |   |                           |
| 180 ECTS credits                    |              |              |  |                                     |  |                                     |                                  |   |                           |

| Specialisation track | Electives A:   | Electives B:   | Electives C:   |
|----------------------|--|--|--|
| Production           | Circular Economy<br>Safety of Industrial Plants and Machines | Supply Chain Management I<br>Product Development in Industry 4.0 | Supply Chain Management II<br>Digital Future Commerce                                  |
| Automotive           | Introduction to Robotics<br>Mechatronic Systems              | Global Corporations and Globalization<br>Global Sourcing         | Self-Driving Vehicles<br>Seminar: Current Topics and Trends in Self-Driving Technology |

| All Electives | Electives A:   | Electives B:   | Electives C:  | Electives D:  |
|---------------|--|--|---|---|
|               | Circular Economy<br>Safety of Industrial Plants and Machines<br>Introduction to Robotics<br>Mechatronic Systems<br>Sustainable Technologies<br>Introduction to Data Protection and Cyber Security<br>Introduction to the Internet of Things<br>Sensor Technology<br>Project: Modeling, Simulation and Control of Robots<br>Regenerative Energy | Supply Chain Management I<br>Product Development in Industry 4.0<br>Global Corporations and Globalization<br>Global Sourcing<br>Sustainability<br>Digital Future Industry<br>Fundamentals of Product Management<br>Managerial Economics<br>Introduction to New Work<br>Project: New Work<br>Business Consulting I<br>Business Consulting II<br>Digital Finance and Controlling<br>Business Psychology<br>Consumer Behavior<br>Online Marketing<br>Social Media Marketing<br>Project: Dynamics 365 Business Central - Financial Company Setup<br>Project: SAP S/4HANA - Financial Company Setup incl. Human Capital Management<br>Sustainability and Quality Management<br>International Business Law<br>Management Accounting<br>Entrepreneurship and Innovation<br>Leadership 4.0 | Supply Chain Management II<br>Digital Future Commerce<br>Self-Driving Vehicles<br>Seminar: Current Topics and Trends in Self-Driving Technology<br>Project: Sustainable Entrepreneurship<br>Smart Factory<br>Project: Smart Factory<br>Embedded Systems<br>Mobile Robotics<br>Seminar: Human-Robot Interaction<br>Smart Devices<br>Project: Smart Devices<br>Smart Mobility<br>Project: Smart Mobility<br>Smart Services<br>Project: Smart Services<br>Project: Applied Robotics with Robotic Platforms<br>Digital and Information Technology<br>Project: Microcontrollers and Logical Circuits<br>Soft Robotics<br>E-Commerce I<br>E-Commerce II<br>International Marketing<br>International Brand Management<br>International Management<br>Purchasing, Procurement and Distribution<br>Data Analytics and Big Data<br>International Contract Management<br>Project: Design Thinking<br>Foreign Language Italian, French, Spanish, German<br>Studium Generale I<br>Studium Generale II<br>Artificial Intelligence<br>Project: AI Excellence with Creative Prompting Techniques<br>Personal Career Plan<br>Personal Elevator Pitch<br>Project: AWS - Cloud Advanced<br>Project: AWS - Cloud Essentials | Internship: Engineering<br>or<br>Intercultural and Ethical Decision-Making<br>Collaborative Work<br>Practical Project: Industrial Engineering<br>Project: Hackathon |



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.



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.



**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.



\* 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