

CURRICULUM B.ENG. INDUSTRIAL ENGINEERING AND MANAGEMENT
DISTANCE LEARNING

| Semester | | | Module | Course Code | Course | ECTS | 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 | |
| | | | Collaborative Work | DLBCSCW01 | Collaborative Work | 5 | Oral Assignment | |
| | 2. Semester | 2. Semester | Mathematics II | DLBCSM201 | Mathematics II | 5 | Exam | |
| | | | Principles of Management | DLBBAPM01_E | Principles of Management | 5 | Case Study | |
| | | | Introduction to Robotics | DLBROI01_E | Introduction to Robotics | 5 | Exam or Written Assignment | |
| 2. Semester | 2. Semester | 3. Semester | Managerial Economics | DLBBWME01_E | Managerial Economics | 5 | Exam | |
| | | | Scientific and Technical Fundamentals | DLBINGAG01_E | Scientific and Technical Fundamentals | 5 | Exam | |
| | | | Introduction to the Internet of Things | DLBINGEIT01_E | Introduction to the Internet of Things | 5 | Exam | |
| | 3. Semester | 4. Semester | 4. Semester | Electrical Engineering | DLBINGET01-01_E | Electrical Engineering | 5 | Exam |
| | | | | Production Engineering | DLBDEAR01 | Production Engineering | 5 | Exam |
| | | | | Sensor Technology | DLBROST01_E | Sensor Technology | 5 | Exam |
| 3. Semester | 4. Semester | 5. Semester | Management Accounting | DLBMAE01 | Management Accounting | 5 | Exam or Written Assignment | |
| | | | Automation Technology | DLBROEIRA02_E | Automation Technology | 5 | Exam | |
| | | | Technical Drawing | DLBROTD01_E | Technical Drawing | 5 | Exam | |
| | 4. Semester | 6. Semester | 6. Semester | Corporate Finance and Investment | DLBCFIE01 | Corporate Finance and Investment | 5 | Written Assignment |
| | | | | Supply Chain Management I | DLBDESECM01 | Supply Chain Management I | 5 | Exam |
| | | | | Mechatronic Systems | DLBROMSY01_E | Mechatronic Systems | 5 | Exam |
| 4. Semester | 5. Semester | 7. Semester | Entrepreneurship and Innovation | DLBBAE101_E | Entrepreneurship and Innovation | 5 | Written Assignment | |
| | | | Project: Design Thinking | DLBINGDT01_E | Project: Design Thinking | 5 | Project Report | |
| | | | Data Analytics and Big Data | DLBINGDABD01_E | Data Analytics and Big Data | 5 | Case Study | |
| | 6. Semester | 8. Semester | 8. Semester | Seminar: Human-Robot Interaction | DLBROSHR101_E | Seminar: Human-Robot Interaction | 5 | Research Essay |
| | | | | Agile Project Management | DLBCSAPM01 | Agile Project Management | 5 | Project Report |
| | | | | Intercultural and Ethical Decision-Making | DLBCSIDM01 | Intercultural and Ethical Decision-Making | 5 | Case Study |
| 5. Semester | 6. Semester | 9. Semester | Product Development in Industry 4.0 | DLBINGPE01_E | Product Development in Industry 4.0 | 5 | Exam | |
| | | | Project: Smart Product Solutions | DLBIEPSP01 | Project: Smart Product Solutions | 5 | Oral Project Report | |
| | | | ELECTIVE A* | | e.g. Smart Devices | 10 | | |
| | | | ELECTIVE B* | | e.g. Project: Hackathon | 10 | | |
| 6. Semester | 7. Semester | 10. Semester | ELECTIVE C* | | e.g. Smart Factory | 10 | | |
| | | | Digital Business Models | DLBLODB01_E | Digital Business Models | 5 | Exam | |
| | | | International Marketing | DLBDEIMB01 | International Marketing | 5 | Exam | |
| | | 12. Semester | Bachelor Thesis | | Bachelor Thesis Thesis Defense | 9 1 | Bachelor Thesis Presentation: Colloquium | |
| Total | | | | | | | | |
| 180 ECTS | | | | | | | | |

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 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.

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.
 ** "Internship" is available in **mystudies** only
 FT: Full-Time, 36 months
 PT I: Part-Time I, 48 months
 PT II: Part-Time II, 72 months

| Elective A: | Elective B: | Elective C: |
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| Smart Devices Smart Factory Smart Mobility Smart Services Service Robotics Introduction to Cognitive Robotics Programming of Robotic Systems Autonomous Driving Applied Sales Applied Robotics Control Engineering Microcontroller Object-oriented Programming | Practice Project: Industrial Engineering 4.0 Project: Hackathon | Smart Devices Smart Factory Smart Mobility Smart Services Microcontroller Service Robotics Introduction to Cognitive Robotics Programming of Robotic Systems Autonomous Driving Applied Sales Applied Robotics Control Engineering Object-oriented Programming Internship** Studium Generale |

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