



**SRH Fernhochschule – The Distance Learning University**  
**SPO: ING2309**

**Curriculum.**  
**Study Program**  
**Industrial Engineering**  
**B.Sc.**

## Curriculum Bachelor of Science (B.Sc.) Industrial Engineering

Module	Examination	Semester					
		1	2	3	4	5	6
<b>Mandatory Modules</b>							
<b>Personal Competences</b>							
Academic Research (6 ECTS)	Student Paper (10 pages)	6					
Project Management (6 ECTS)	Student Paper (20 pages)				6		
Theory-Practice-Transfer (ING) (6 ECTS)	Student Paper (20 pages)		6				
Qualitative and Quantitative Research Methods (6 ECTS)	Student Paper (15 pages)			6			
<b>Economics</b>							
Introduction to Business Administration (6 ECTS)	Student Paper (20 pages)	6					
Marketing Tools (6 ECTS)	Student Paper (20 pages)	6					
Performance Management (6 ECTS)	Written Exam (120 minutes)			6			
Accounting and Finance (6 ECTS)	Written Exam (120 minutes)				6		
Digital Transformation and Business Models (6 ECTS)	Student Paper (20 pages)				6		
<b>Applied Natural Sciences</b>							
Business Mathematics (6 ECTS)	Written Exam (120 minutes)	6					
Physics (6 ECTS)	Written Exam (120 minutes)		6				
Electrical Engineering (6 ECTS)	Submission Tasks (15 pages)			6			
<b>Engineering</b>							
Production and Logistics (6 ECTS)	Student Paper (20 pages)	6					
Introduction to Engineering (6 ECTS)	Student Paper (20 pages)		6				
Introduction to Digital Engineering (Engl.) (6 ECTS)	Student Paper (20 pages)		6				
Information Technology Basics (6 ECTS)	Student Paper (20 pages)		6				
Machine Elements & Manufacturing Technology (6 ECTS)	Submission Tasks (15 pages)			6			
Process Analysis & System Planning (6 ECTS)	Submission Tasks (15 pages)				6		
<b>Profiling and Degree</b>							
Practice Project (ING) (12 ECTS)	Project Exam (30 pages)					12	
Bachelor Thesis (ING) (12 ECTS)	Bachelor Thesis (60 pages)						12
<b>Specialization Production and Manufacturing Technologies</b>							
Forming Machine Tools and Control of Manufacturing Systems (6 ECTS)	Student Paper (20 pages)			6	6	12	
Materials Science and Cutting Machine Tools (6 ECTS)	Student Paper (20 pages)						
Industrial Production Economy (6 ECTS)	Written Exam (120 minutes)						
Digital Production and Logistics Management (Engl.) (6 ECTS)	Submission Tasks (15 pages)						
<b>Elective Modules</b>							
Students choose 4 modules from the list below.							
Operational International Management (6 ECTS)	Student Paper (20 pages)						
Case Studies in Management (6 ECTS)	Online Test (60-120 minutes)						
Communication and Leadership (6 ECTS)	Submission Tasks (15 pages)						
Regional Studies (6 ECTS)	Submission Tasks (15 pages)						
Strategic International Management (6 ECTS)	Submission Tasks (15 pages)						
Intercultural Management (6 ECTS)	Student Paper (20 pages)						
International Relations (6 ECTS)	Student Paper (20 pages)						
Personal Skills (6 ECTS)	Submission Tasks (15 pages)						
Situation Analysis in Management (6 ECTS)	Student Paper (20 pages)						
Personnel and Organisation (6 ECTS)	Written Exam (120 minutes) oder Student Paper (20 pages)						
Current Challenges in Business Administration (6 ECTS)	Presentation (20 minutes)						
Management of Risks (6 ECTS)	Oral (Online) Exam (20 minutes)						
Business Culture and Ethics (6 ECTS)	Student Paper (20 pages)						
<b>Credits total</b>	<b>180</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>30</b>