

Curriculum IE (FT)		HPW	Type						Examination form		CP	HPW						
			V	SL	S	Ü	Pra	Pro	Attestation	graded		WS1	SS2	WS3	SS4	WS5	SS6	WS7
1st Semester																		
IE 1 2000	Introductory Mathematics	8	5			3				x	8	8						
IE 1 2007	Chemistry of Materials	4	2			2				x	5	4						
IE 1 2008	Statics and Strength of Materials	4	2			2				x	5	4						
IE 1 2011	Programming	4	2				2			x	5	4						
IE 1 2800	Introduction to Industrial Engineering	3	2		1					x	3	3						
IE 1 2501	Fundamentals of Economics and Business	4	4							x	5	4						
2nd Semester																		
IE 2 2001	Applied Mathematics	8	5			3				x	7	8						
IE 2 2003	Physics	4	2			1	1			x	5	4						
IE 2 2014	Cross-Cultural Management and Creativity	4	2			2				x	5	4						
IE 2 2502	External Accounting	4	2			2				x	5	4						
IE 2 2701	Engineering Drawing and Design	4	2			1	1			x	5	4						
IE 2 2706	Manufacturing Technology	4	3			1				x	5	4						
3rd Semester																		
IE 3 2010	Dynamics	4	2			2				x	5		4					
IE 3 2108	Materials and Testing	4	2			1	1			x	5		4					
IE 3 2305	Fundamentals of Electrical Engineering	4	2			1	1			x	5		4					
IE 3 2503	Internal Accounting	4	2			2				x	5		4					
IE 3 2504	Quality and Project Management	4	3				1			x	5		4					
IE 3 2505	Production and Logistics	4	3				1			x	5		4					
4th Semester																		
IE 4 2002	Numerical Mathematics	4	3			1				x	5			4				
IE 4 2507	General Management	4	2			1	1			x	5			4				
IE 4 2508	Marketing and Sales	4	3			1				x	5			4				
IE 4 2902	System Theory and Controls	4	2			1	1			x	5			4				
Focus Field (see: Catalogue Individual Subjects: Focus Field Subjects)																		
Focus Field Subject 1		4									5			4				
Focus Field Subject 2		4									5			4				
5th Semester																		
IE 5 2015	Group Project	1						1		x	5				1			
IE 5 2509	Fundamentals of Law, Investment and Financing	4	4							x	5				4			
IE 5 2705	Engineering Design	4	2			2				x	5			4				
IE 5 2708	Thermodynamics	4	2			1	1			x	5			4				
Focus Field (see: Catalogue of Individual Subjects: Focus Field Subjects)																		
Focus Field Subject 3		4									5				4			
Focus Field Subject 4		4									5				4			
6th Semester																		
IE 6 2016	Internship / Semester abroad									x	30							
7th Semester																		
IE 7 2017	Thesis									x	12							
IE 7 2018	Colloquium									x	3							
IE 7 2510	Technology and Innovation Management	4	2				2			x	5					4		
IE 7 2512	Entrepreneurship	2						2		x	2					2		
Elective (see: Catalogue of Individual Subjects: Electives)		3									5					3		
Overview		133	V	SL	S	Ü	Pra	Pro	Examination form		CP	WS1	SS2	WS3	SS4	WS5	SS6	WS7

Catalogue Individual Subjects IE		HPW	Type						Examination form		CP	HPW						
			V	SL	S	Ü	Pra	Pro	Attestation	graded		WS1	SS2	WS3	SS4	WS5	SS6	WS7
Focus Field Subjects ***/****/*****																		
Focus Field Supply Chain Management		16	7			2	4	3			20				8	8		
IE 4 2513	Global Economy and Trade	4	2			2				x	5				4			
IE 4 2514	Technical Investment Planning and Purchasing	4	1					3		x	5				4			
IE 5 2515	Supply Chain Management	4	2				2			x	5					4		
IE 5 2516	Enterprise Resource Planning	4	2				2			x	5					4		
Focus Field Information Engineering		16	8			3	4	1			20				8	8		
IE 4 2517	Controlling and Information Engineering	4	2			1	1			x	5				4			
IE 4 2518	Service and Business Process Re-Engineering	4	2			1		1		x	5				4			
IE 5 2506	Game Theory and Operations Research	4	2				2			x	5					4		
IE 5 2904	Modelling and Simulation	4	2			1	1			x	5					4		
Focus Field Process Engineering		16	8			3	5	0			20				8	8		
IE 4 2709	Fundamentals of Process Engineering	4	2			1	1			x	5				4			
IE 4 2710	Fluid Mechanics	4	2			1				x	5				4			
IE 5 2712	Design of Plants	4	2				2			x	5					4		
IE 5 2713	Control of Plants in Process Engineering	4	2			1	1			x	5					4		
Electives																		
IE 7 2019	Scientific Methods (Block or Online)	4	2			2				x	5						4	
IE 7 2020	Foreign Language									x	5							
IE 7 2021	Module from any other bachelor's degree programme HSRW									x	5							

Explanations / Conditions

- * The faculty reserves the right to determine a minimum number of participants for offering a subject in the focus fields / electives, as well as a maximum number of participants. The possibility of obtaining the required number of credit points remains unaffected.
- ** A maximum of 5 credits may be earned via an elective from the catalogue of any bachelor's degree programme at Rhine-Waal University of Applied Sciences with the approval of the Examination Board of the Faculty of Technology and Bionics.
- ** The Faculty of Technology and Bionics reserves the right to amend its catalogue of electives.
- ** Due to time tabling constraints, subjects from different focus fields and electives may be offered concurrently.

Abbreviations

- HPW Hours per week (also: Semesterwochenstunden / SWS)
- CP Credit points