Annex I

Curriculum ME (FT)		I			Ти	ne			Examination form						HPW	HPW		
		HPW	v	e1	,	n	Bra	Bro	Attestation	graded	CP	WS1	662	W62	664	wee		W67
1 st Somo	tor		•	JL	3	U	Fia	FIU	Attestation	graded		WST	332	1133	334	1133	330	1137
T Gennes							1				_							-
ME 1 2000	Introductory Mathematics	8	5			3				x	8	8						
ME 1 2007	Chemistry of Materials	4	2			2				×	5	4						
ME 1 2008	Statics and Strength of Materials	4	2			2				×	5	4						
ME 1 2011	Programming	4	2				2		x	x	3	4						
ME 1 2013	Business Economics and Project Management	4	3				1		x		5	4						
ME 1 2700 Introduction to Mechanical Engineering		3	2		1				x		5	3						
2 Seme	ster																	
ME 2 2001	Applied Mathematics	8	5			3				x	7		8					
ME 2 2003	Physics	4	2			1	1		x	x	5		4					
ME 2 2009	Advanced Strength of Materials	4	2			2				x	5		4					
ME 2 2014	Cross-Cultural Management and Creativity	4	2			2			x		5		4					
ME 2 2106	Metallic Materials and Testing	4	2				2			x	5		4					
ME 2 2701	Engineering Drawing and Design	4	2			1	1		x	x	5		4					
3 ^{ra} Semes	ster																	
ME 3 2010	Dynamics	4	2			2				x	5			4				
ME 3 2107	Non-metallic Materials	4	2			1	1		x	x	5			4				
ME 3 2305	Fundamentals of Electrical Engineering	4	2			1	1		x	x	5			4				
ME 3 2702	Advanced Engineering Design	4	2			1		1		x	5			4				
ME 3 2708	Thermodynamics	4	2			1	1			x	5			4				
ME 3 2711	Drive Systems	4	2			2				x	5			4				
4 th Semester																		
ME 4 2002	Numerical Mathematics	4	3			1				x	5				4			
ME 4 2703	Product Design	4	2			1		1		x	5				4			
ME 4 2706	Manufacturing Technology	4	3			1				x	5				4			
ME 4 2902	System Theory and Controls	4	2			1	1			x	5				4			
	Focus Field (see: Catalogue Individual Subjects: Focus Field Subjects	5)																
	Focus Field Subject 1	4									5				4			
	Focus Field Subject 2	4									5				4			
5 th Semes	ster																	
ME 5 2015	Group Project	1						1	x		5					1		
ME 5 2511	Quality and Production Management	4	3				1			x	5					4		
ME 5 2903	Controls	4	2			1	1			x	5					4		
ME 5 2904	Modelling and Simulation	4	2			2				x	5					4		
	Focus Field (see: Catalogue of Individual Subjects: Focus Field Subje	cts)	r	r									r					
	Focus Field Subject 3	4									5					4		
	Focus Field Subject 4	4									5					4		
6 th Semes	ster																	
ME 6 2016	Internship / Semester abroad								x		30							
7 [™] Semes	ster																	
ME 7 2017	Thesis									x	12							
ME 7 2018	Colloquium									x	3							
ME 7 2510	Technology and Innovation Management	4	2				2			x	5							4
ME 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	Attestation	graded	210	27	28	24	16	17		9
		HPW			ту	pe			Examina	tion form	CP	WS1	SS2	WS3	SS4 HPW	WS5	SS6	WS7

Constraint of any of the set of the se	Catalogue Individual Subjects ME		LIDW/	i yi			he			Examina	uon torm	CB			new				
Problem by			HE W	v	SL	S	0	Pra	Pro	Attestation	graded	UF	WS1	SS2	WS3	SS4	WS5	SS6	WS7
Fock Field Design16080	Focus Field Subjects */**/***																		
MetaryMeta		Focus Field Design	16	8			5	3				20				8	8		
ME 471Virtual Production Development445254545555556455 <td>ME 4 2121</td> <td>Material Testing and Failure Analysis</td> <td>4</td> <td>2</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>x</td> <td>5</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td>	ME 4 2121	Material Testing and Failure Analysis	4	2				2			x	5				4			
ME 3070Anome Priorie DiversionME 3QQQ <t< td=""><td>ME 4 2714</td><td>Virtual Production Development</td><td>4</td><td>2</td><td></td><td></td><td>1</td><td>1</td><td></td><td></td><td>x</td><td>5</td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td></t<>	ME 4 2714	Virtual Production Development	4	2			1	1			x	5				4			
ME 5 000Fine Element MethodFine <td>ME 5 2704</td> <td>Advanced Product Design</td> <td>4</td> <td>2</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>x</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td>	ME 5 2704	Advanced Product Design	4	2			2				x	5					4		
Formation formers formers of a bit of a	ME 5 2905	Finite Element Method	4	2			2				x	5					4		
ME 42700Fundamentals of Process Engineering42111 <t< td=""><td></td><td>Focus Field Process Engineering</td><td>16</td><td>8</td><td></td><td></td><td>3</td><td>5</td><td></td><td></td><td></td><td>20</td><td></td><td></td><td></td><td>8</td><td>8</td><td></td><td></td></t<>		Focus Field Process Engineering	16	8			3	5				20				8	8		
ME 4000ME 4000ME 4ME </td <td>ME 4 2709</td> <td>Fundamentals of Process Engineering</td> <td>4</td> <td>2</td> <td></td> <td></td> <td>1</td> <td>1</td> <td></td> <td></td> <td>x</td> <td>5</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td>	ME 4 2709	Fundamentals of Process Engineering	4	2			1	1			x	5				4			
ME 52710Control Plants In"conservation in a second se	ME 4 2710	Fluid Mechanics	4	2			1	1			x	5				4			
ME 5230Cortrol of Plants In Process Engineering40211101010100 <td>ME 5 2712</td> <td>Design of Plants</td> <td>4</td> <td>2</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>x</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td>	ME 5 2712	Design of Plants	4	2				2			x	5					4		
Fore Field Machine yadystoms16816871110 <td>ME 5 2713</td> <td>Control of Plants in Process Engineering</td> <td>4</td> <td>2</td> <td></td> <td></td> <td>1</td> <td>1</td> <td></td> <td></td> <td>x</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td>	ME 5 2713	Control of Plants in Process Engineering	4	2			1	1			x	5					4		
ME 42716Material Handing SystemsII <th< td=""><td></td><td>Focus Field Machinery and Systems</td><td>16</td><td>8</td><td></td><td></td><td>7</td><td>1</td><td></td><td></td><td></td><td>20</td><td></td><td></td><td></td><td>8</td><td>8</td><td></td><td></td></th<>		Focus Field Machinery and Systems	16	8			7	1				20				8	8		
ME 4 210Med volumizering42720xx5140111	ME 4 2715	Material Handling Systems	4	2			2				x	5				4			
Meble Hydralics42-11-NNN <td>ME 4 2716</td> <td>Agricultural Engineering</td> <td>4</td> <td>2</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>x</td> <td>5</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td>	ME 4 2716	Agricultural Engineering	4	2			2				x	5				4			
ME 52781Cycurdical GeamAAA <t< td=""><td>ME 5 2717</td><td>Mobile Hydraulics</td><td>4</td><td>2</td><td></td><td></td><td>1</td><td>1</td><td></td><td></td><td>x</td><td>5</td><td></td><td></td><td></td><td></td><td>4</td><td></td><td></td></t<>	ME 5 2717	Mobile Hydraulics	4	2			1	1			x	5					4		
Fore Field Smulation and Validation1686711666766777 <td>ME 5 2718</td> <td>Cylindrical Gears</td> <td>4</td> <td>2</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>x</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td>	ME 5 2718	Cylindrical Gears	4	2			2				x	5					4		
ME 4 219 Multidy Dynamics 4 2 0 2 0 1 <td></td> <td>Focus Field Simulation and Validation</td> <td>16</td> <td>8</td> <td></td> <td></td> <td>7</td> <td>1</td> <td></td> <td></td> <td></td> <td>20</td> <td></td> <td></td> <td></td> <td>8</td> <td>8</td> <td></td> <td></td>		Focus Field Simulation and Validation	16	8			7	1				20				8	8		
ME 4 cold Methody Dynamics M 4 2 M 2	ME 4 2719	Applied Strength of Materials	4	2			2				x	5				4			
ME 5200 Machine Dynamics 4 2 1	ME 4 2908	Multibody Dynamics	4	2			2				x	5				4			
ME 5 205 Finite Lisement Method 4 2 - 2 - 7 - 7 - 7 - 7 2 1 1 1 1 1 1 1 1 1 2 1 1 1 1 2 1 2 3 1 1 2 1 3 1 1 2 1 3 1 <t< td=""><td>ME 5 2720</td><td>Machine Dynamics</td><td>4</td><td>2</td><td></td><td></td><td>1</td><td>1</td><td></td><td></td><td>x</td><td>5</td><td></td><td></td><td></td><td></td><td>4</td><td></td><td></td></t<>	ME 5 2720	Machine Dynamics	4	2			1	1			x	5					4		
Foce Piel Technical Sales 16 7 4 2 3 7 0 1 2 3 0 5 8 8 8 0 1 M6 4231 Global Docomy and Tandon 4 1 1 0 2 0 3 0 5 0 0 4 0	ME 5 2905	Finite Element Method	4	2			2				×	5					4		
ME 4 2313 Olcolet Economy and made 4 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		Focus Field Technical Sales	16	7			4	2	3			20				8	8		
ME 4 254 Technical Investment planning and Puchaning 4 1 - - 3 - x 5 - 4 4 - - - 3 - x 5 - 4 4 - - - - 3 - x 5 - - 4 0 - - - 1 3 - 1 3 - - 1	ME 4 2513	Global Economy and Trade	4	2			2				x	5				4			
ME 6 2000 Fundament and Link weetment and Financing 4 2 7 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1	ME 4 2514	Technical Investment Planning and Purchasing	4	1					3		x	5				4			
ME 6 200 Fundamental of Law, Investment and Financing 4 2 - 2 - 1 6 7 2 - 1 6 7 2 - 1 6 7 7 1 6 1 6 7 7 1 7 1 6 7 7 7 7 1 8 7 7 1 8 7 7 8 7 7 8 8 7 7 8 8 8 7 7 ME 4224 Bioinpetic Sense 4 2 1 2 2 1 <th1< th=""> 1 <th1< th=""> 1</th1<></th1<>	ME 5 2505	Production and Logistics	4	2				2			x	5					4		
Fock Pick Binding Fock Fock <td>ME 5 2509</td> <td>Fundamentals of Law, Investment and Financing</td> <td>4</td> <td>2</td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td></td> <td>x</td> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td>	ME 5 2509	Fundamentals of Law, Investment and Financing	4	2			2				x	5					4		
ME 4/224 Demonstre Science 4 2 2 2 1 <th1< th=""> 1 <th1< th=""> 1</th1<></th1<>		Focus Field Bionics	16	8			4	2	2			20				8	8		
ME 4 2724 Zoodgrafi Physics 4 2 - 7 2 1 x 5 1 4 1 0 1 ME 52725 Bioinschaften 4 2 0 0 2 x 5 0 0 4 0 <t< td=""><td>ME 4 2723</td><td>Biomimetic Science</td><td>4</td><td>2</td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>x</td><td>5</td><td></td><td></td><td></td><td>4</td><td></td><td></td><td></td></t<>	ME 4 2723	Biomimetic Science	4	2			2				x	5				4			
ME 52725 Bioinspiration 4 2 2 2 1 1 5 1 1 4 2 ME 52726 Bioinspiration 4 2 2 2 1 2 5 5 1 4 4 2 ME 52726 Bioinspiration 4 2 2 2 2 x 5 5 1 4 2 EBC27000 Scientific Methods (Biock or Online) 4 2 2 2 x 1 x </td <td>ME 4 2724</td> <td>Zoological Physics</td> <td>4</td> <td>2</td> <td></td> <td></td> <td></td> <td>2</td> <td></td> <td></td> <td>x</td> <td>5</td> <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td>	ME 4 2724	Zoological Physics	4	2				2			x	5				4			
ME 5 2726 Biolo Design 4 2 1 2 2 1 2 2 4 2 4 2 4 2 4 2 4 2 2 3 5 5 5 4 4 4 4 EF 2019 Scientific Methods (Block on Online) 4 2 2 2 3 5 5 5 5 6 5 6 5 6 <th< td=""><td>ME 5 2725</td><td>Bioinspiration</td><td>4</td><td>2</td><td></td><td></td><td>2</td><td></td><td></td><td></td><td>x</td><td>5</td><td></td><td></td><td></td><td></td><td>4</td><td></td><td></td></th<>	ME 5 2725	Bioinspiration	4	2			2				x	5					4		
Electives ME7 2019 Scientific Methods (Block or Online) 4 2 2 2 1 1 5 1 1 0 4 4 4 4 5 5 1 1 0 4 4 4 5 1 1 1 4 4 4 4 5 1 1 1 4 4 4 4 5 1 <	ME 5 2726	Bionic Design	4	2					2	x		5					4		
ME 7 2019 Schentlic Methods (Block or Online) 4 2 2 2 2 1 5 5 1 1 5 1 1 5 1 1 1 1 1 1 1 1 1 1 1 1 1 <th1< th=""> 1 <th1< th=""> 1<!--</td--><td colspan="12">Electives</td></th1<></th1<>	Electives																		
ME 7 2020 Foreign Language Image	ME 7 2019	Scientific Methods (Block or Online)	4	2			2			x		5							4
ME 7 2021 Module from any other bachelor's degree programme HSRW Image: Constraint of the second se	ME 7 2020	Foreign Language								x		5							
ME 7 2721 Design of Membrane Plants 4 2 2 x 5 4 4 ME 7 2722 Leadership 3 3 3 x 5 4 4	ME 7 2021	Module from any other bachelor's degree programme HSRW								x	x	5							
ME 7 2722 Leadership 3 3 3 x 5 3 3	ME 7 2721	Design of Membrane Plants	4	2				2			x	5							4
	ME 7 2722	Leadership	3			3				x		5		-					3

Explanations / Conditions

Abbreviations_

E.

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.

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

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