Annex 2a: Model program schedule for the Flexible and Intelligent Products and Processes strand_AFB 11.07.2022_1. amendment 23.04.2024

SWS	1. Semester WiSe	2. Semester SoSe	3. Semester WiSe	4. Semester SoSe
1	Subtractive Manufacturing 3V/1Ü 6 LP	Welding Manufacturing 3V/1Ü 6 LP	Design and Process Planning for Casting 3V/1Ü 6 LP	Masterarbeit inkl. Kolloquium 30 LP
2				
3				
4				
5	Advanced System Automation 3V/1Ü 6 LP	Computer Integrated Manufacturing incl. Lab 2V/1Ü/1P 6 LP	Wireless Sensor Networks 3V/1Ü 6 LP	
6				
7				
8				
9	Advanced Cyber Physical Systems 3V/1Ü 6 LP	Big Data - Management and Analytics 3V/1Ü 6 LP	18 LP (3 Module) from Electives catalogue strand "Flexible and Intelligent Products and Processes"	
10				
11				
12				
13	Interdisciplinary and Cross Culture Collaboration 6 LP	Research Methodology & Interdisciplinary Research Project 1V/3P 6 LP		
14				
15				
16				
17		6 LP (1 Modul) from Electives catalogue strand "Flexible and Intelligent Products and Processes"		
18				
19	Interdisciplinary Engineering Projects & Seminar Intelligent Manufacturing 1S/3P 6 LP			
20				
21				
22				
Summe SWS	22	19	20	20
Summe LP	30	30	30	30

Strand Flexible and Intelligent Products and Processes

	Credit Points
Foundations of manufacturing engineering	**Σ 104**
Foundations of information technology	30
Interdisciplinary and methodological foundations	18
Focuses in engineering (strand)	8
Methodology of research and work (master's thesis)	24
Personal competence and social skills	24
Team and project work	**Σ 16**
Knowledge of language and culture	4
Applied working methods (master's thesis)	6
Foundations of manufacturing engineering	6

Annex 2b: Model program schedule for the Manufacturing Analytics and Optimization strand AFB 11.07.2022_1. amendment 23.04.2024

SWS	1. Semester WiSe	2. Semester SoSe	3. Semester WiSe	4. Semester SoSe
1	Subtractive Manufacturing 3V/1Ü 6 LP	Welding Manufacturing 3V/1Ü 6 LP	Design and Process Planning for Casting 3V/1Ü 6 LP	Masterarbeit inkl. Kolloquium 30 LP
2				
3				
4				
5	Advanced System Automation 3V/1Ü 6 LP	Computer Integrated Manufacturing incl. Lab 2V/1Ü/1P 6 LP	Wireless Sensor Networks 3V/1Ü 6 LP	
6				
7				
8				
9	Advanced Cyber Physical Systems 3V/1Ü 6 LP	Big Data - Management and Analytics 3V/1Ü 6 LP	18 LP (3 Module) from Electives catalogue strand "Manufacturing Analytics and Optimization"	
10				
11				
12				
13	Interdisciplinary and Cross Culture Collaboration 6 LP	Research Methodology & Interdisciplinary Research Project 1V/3P 6 LP		
14				
15				
16				
17		6 LP (1 Modul) from Electives catalogue strand "Manufacturing Analytics and Optimization"		
18				
19	Interdisciplinary Engineering Projects & Seminar Intelligent Manufacturing 1S/3P 6 LP			
20				
21				
22				
Summe SWS	22	20	20	20
Summe LP	30	30	30	30

Strand Manufacturing Analytics and Optimization	Credit Points
Foundations of manufacturing engineering	**Σ 104**
Foundations of information technology	30
Interdisciplinary and methodological foundations	18
Focuses in engineering (strand)	8
Methodology of research and work (master's thesis)	24
Personal competence and social skills	24
Team and project work	**Σ 16**
Knowledge of language and culture	4
Applied working methods (master's thesis)	6
Foundations of manufacturing engineering	6