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

hrs/wk	1st semester	2nd semester	3rd semester	4th semester
	winter semester	summer semester	winter semester	summer semester
1 2 3	Substractive Manufacturing 2L + 2T	Welding Manufacturing 2L + 2T	Product Design and Process Planning for Casting 2L + 2T	
4	6 credit points	6 credit points	6 credit points	
5	Sustana	Computer Integrated	Intendicainlinem	
6	System Automation	Manufacturing incl. Lab	Interdisciplinary Research Project	
7	3L + 1T	2L + 1T + 1lab	1L + 3lab	
8	6 credit points	6 credit points	6 credit points	
9	Wireless Sensor	Big Data Management	Advanced Cyber	
10	Networks	and Analytics	Phyiscal Systems	Master's Thesis incl. Colloquium
11	3L + 1T 6 credit points	3L + 1T 6 credit points	3L +1T 6 credit points	30 credit points
12	6 Credit points	o credit points	o credit points	
13				
14	Interdisciplinary and	12 credit points	12 credit points	
15	Cross-Culture	(2 modules)	(2 modules)	
16	Collaboration 6 credit points	from electives catalogue for Flexible	from electives catalogue for Flexible	
17	o create points	and Intelligent	and Intelligent	
18		Products and Processes strand	Products and Processes strand	
19	Interdisciplinary Engineering Projects	110000000000000000000000000000000000000	. 1 0 0 0 0 0 0 0 0 1 0 1 1 0 1	
20	& Intelligent			
21	Manufacturing Seminar			
22	1S + 3lab 6 credit points			
Total hrs/wk	22	20	20	20
Total credit points	30	30	30	30

Strand: Flexible and Intelligent Products and Processes

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

Annex 2b: Model program schedule for the Manufacturing Analytics and Optimization strand_AFB 11.07.2022

Juliu-	FB 11.07.2022			
hrs/wk	1st semester	2nd semester	3rd semester	4th semester
	winter semester	summer semester	winter semester	summer semester
1 2	Substractive Manufacturing	Welding Manufacturing	Product Design and Process Planning for	
3	2L + 2T	2L + 2T	Casting 2L + 2T	
4	6 credit points	6 credit points	6 credit points	
5	.	Computer Integrated	1 . 1 1.	
6	System Automation	Manufacturing incl.	Interdisciplinary Research Project	
7	3L + 1T	Lab 2L + 1T + 1Iab	1L + 3lab	
8	6 credit points	6 credit points	6 credit points	
9	Wireless Sensor	Big Data Management	Advanced Cyber	
10	Networks	and Analytics	Phyiscal Systems	Master's Thesis
11	3L + 1T 6 credit points	3L + 1T 6 credit points	3L +1T 6 credit points	30 credit points
12	o credit points	o credit points	——————————————————————————————————————	
13				
14	Interdisciplinary and	10 10	10 10	
15	Cross-Culture	12 credit points (2 modules)	12 credit points (2 modules)	
16	Collaboration 6 credit points	from the electives	from the electives	
17	o credit points	catalogue for the Manufacturing	catalogue for the Manufacturing	
18		Analytics and	Analytics and	
19	Interdisciplinary Engineering Projects	Optimization strand	Optimization strand	
20	& Intelligent			
21	Manufacturing Seminar			
22	1S + 3lab 6 credit points			
Total hrs/wk	21	20	20	20
Total credit points	30	30	30	30

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