Special Master MSEOM Curriculum 2020

	Quarter A1	Quarter A2	Quarter B3	Quarter B4	ECTS
YEAR 1					
	Manufacturing Technology (B)* 1CM160 choose either in Q1 or in Q3	Integrated System Design (E) 4CM70	Manufacturing Technology (B)* 1CM160 choose either in Q1 or in Q3	One out of 2 Multi-Echelon Inventory Management (C) 1CM100	
				One out of 2 Design of operations planning and control systems (B2) 1CM140	15 ECTS

Free Electives

1. **Choose 3 Pillars**
2. **Choose one course from each of the chosen pillars**

		Quarter A1	Quarter A2	Quarter B3	Quarter B4	ECTS
PILLAR 1	MACHINE DESIGN AND CONROL					
		One out of 3 Control Engineering (C) ** 4CM00		One out of 3 Supervisory Control (C) 4CM30		
		One out of 3 Micro Fabrication (B) *** 4UM00				
PILLAR 2	FACTORY DESIGN AND CONTROL					
			One out of 2 Modeling & Analysis of Manufacturing Systems (D) 1CM10		One out of 2 Modeling & Control of Manufacturing Networks (A) 4DM40	
PILLAR 3	MAINTENANCE DESIGN AND CONTROL					
		One out of 2 Advanced Maintenance & Service Logistics (D) 1CM120			One out of 2 Fracture Mechanics. Theory & application (C) 4MM50	
PILLAR 4	AI DEGISN AND CONTROL					
		Foundations of Data Mining (B) 2AMM20			Computational Intelligence (E) 1BM120	15 ECTS

	Quarter A1	Quarter A2	Quarter B3	Quarter B4	ECTS
TRACKS 3 OUT OF CHOSEN TRACK					
Operations, Planning, Accounting & Control					
	Advanced Maintenance & Service Logistics (D) 1CM120	MAMS (D) 1CM10	Integrated Fin & Operations Mgt (B) 1CM22	Multi-Echelon Inventory Management (C) 1CM100	
		Configuration Management (2,5 ECTS) (C) 1CM180	Game Theory with Applications to Supply Chain Mag. (D) 1CM36	Sustainable Supply Chains (E) 1CM170	
		Warehouse Operations Management (2,5 ECTS) (B2) 1CM200		Design of Operations Planning and Control Systems (B2) 1CM140	
Information Systems					
	Advanced Maintenance & Service Logistics (D) 1CM120	Business Process Management (B1) 1BM05	Data Analytics for Business Intelligence (C) 1BM110	Business Analysis for Information Technology Systems (D) 1BM20	
		MAMS (D) 1CM10		Design of Service Operations (B) 1BM100	
				Computational Intelligence (E) 1BM120	15 ECTS
				Design of Data-Driven Business Operation (B) 1BM130	

YEAR 2

	Quarter A1	Quarter A2	Quarter B3	Quarter B4	ECTS
	Internship 1MSE15				15 ECTS
		Graduation Project 1MSE45			45 ECTS

TOTAL: 120 ECTS