

Special Master MSEOM Curriculum 2021-2022

	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, B3) 1CM140	15 ECTS
Free Electives					15 ECTS

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

PILLAR 1	MACHINE DESIGN AND CONTROL				
	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 DESIGN AND CONTROL				
			Data Analytics for Business Intelligence (C2) 1BM110	Decision Making with Artificial and 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
Engineering Knowledge Intensive Bussiness Processes (B2, B3) 1BM140	Warehouse Operations Management (2,5 ECTS) (B2, B3) 1CM200	Game Theory with Applications to Supply Chain Mag. (D) 1CM36	Sustainable Supply Chains (E) 1CM170
	Robust Policies for Operations Mgt Problems (E1) 1CM220	Data Analytics for Bussiness Intelligence (C2) 1BM110	Design of Operations Planning and Control Systems (B2, B3) 1CM140
			Decision Making with Artificial and Computational Intelligence (E) 1BM120
			Design of AI-driven Business Operation (B) 1BM130

Information Systems

Advanced Maintenance & Service Logistics (D) 1CM120	Business Process Management (B1) 1BM05	Data Analytics for Business Intelligence (C2) 1BM110	Design of Service Operations (B) 1BM100
	MAMS (D) 1CM10		Decision making with Artificial and Computational Intelligence (E) 1BM120
	Business Analysis for Information Technology Systems (E2, E3) 1BM20		Design of AI driven Business Operation (B) 1BM130
	Warehouse Operations Management (2,5 ECTS) (B2, B3) 1CM200		Design of Operations Planning and Control Systems (B2, B3) 1CM140
	Robust Policies for Operations Mgt Problems (E1) 1CM220		

15 ECTS

Quarter A1

Quarter A2

Quarter B3

Quarter B4

ECTS

YEAR 2

Internship
1MSE15

15 ECTS

Graduation Project 1MSE45

45 ECTS

TOTAL: 120 ECTS