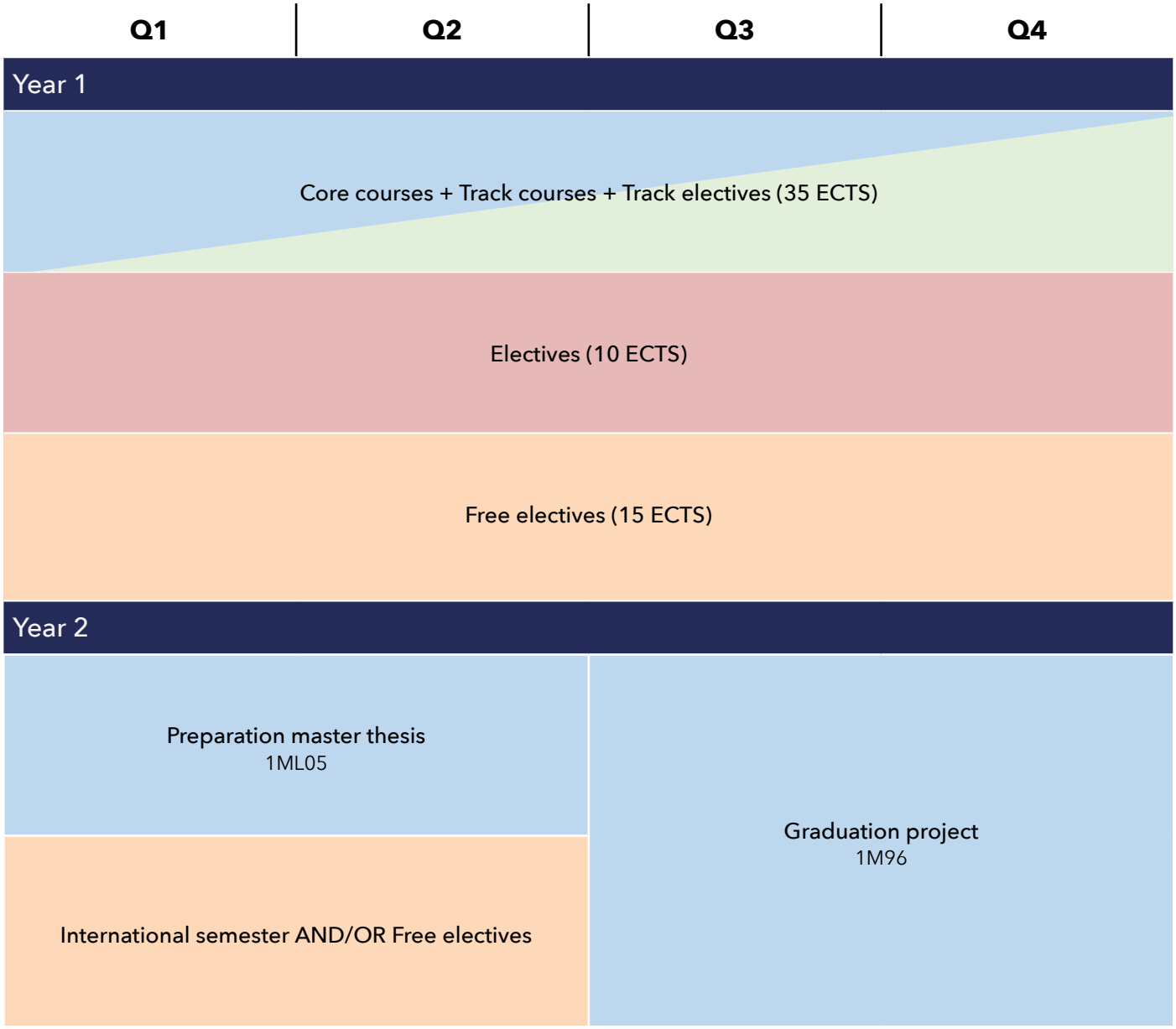
Master Operations Management and Logistics - Program Overview 2024-2025



Curriculum Track Smart Services
Master Operations Management and Logistics 2024-2025

	Q1	Q2	Q3	Q4
Year 1				
Course 1	Research methods (E) 1JM110	Business analysis for information technology systems (E2+E3) 1BM20	Data-driven artificial intelligence (C2) 1BM110	Design of service operations (B2) 1BM100
Course 2	Track elective / Elective / Free elective	Track elective / Elective / Free elective	Track elective / Elective / Free elective	Elective / Free elective
Course 3	Elective / Free elective	Track elective / Elective / Free elective	Track elective / Elective / Free elective	Elective / Free elective
Track Electives / Electives				
1 out of 2	Engineering knowledge-intensive business processes (B2+B3) 1BM140	Business process management (C1) 1BM05		
AND				
1 out of 2		Implementing and adapting to artificial intelligence in organizations (C2) 1JM50	Performance enhancement (E) 1JM11	
AND				
1 out of 3		Circular service supply chains (A) 1CM280	Multi-echelon inventory management (C1) 1CM100	
		Modeling and analysis of manufacturing systems (D) 1CM10		

Curriculum Track Smart Services
Master Operations Management and Logistics 2024-2025

Q1	Q2	Q3	Q4
Year 1			
Electives (minimum of 10 ECTS): All courses listed as possible (track) elective, but not yet selected by student			
Retail operations (C) 1CM40	Warehouse operations management (B2+B3) 1CM300	Behavioral operations management (A) 1JM40	E-business (A2+A3) 1BM10
Integrated financial and operations management (B) 1CM270	Robust decision making (E1) 1CM320	Advanced simulation (A) 2DI66	Decision making with artificial and computational intelligence (C) 1BM120
	Servitization and customer experience (E1) 1ZM55		Design of AI-driven business operations (B1) 1BM310
	Multivariate statistics (A) 1ZM31		Designing effective performance management systems (A1) 1JM21
			System dynamics (B) 1ZM65
			Managing team dynamics & team performance (C2) 1JM30

Curriculum Track Supply Chain Management
Master Operations Management and Logistics 2024-2025

	Q1	Q2	Q3	Q4
Year 1				
Course 1	Research methods (E) 1JM110	Track elective / Elective / Free elective	Data-driven artificial intelligence (C2) 1BM110	Design of operations planning and control systems (B2) 1CM140
Course 2	Track elective / Elective / Free elective	Track elective / Elective / Free elective	Multi-echelon inventory management (C1) 1CM100	Elective / Free elective
Course 3	Elective / Free elective	Track elective / Elective / Free elective	Track elective / Elective / Free elective	Elective / Free elective
Track Electives / Electives				
1 out of 3	Retail operations (C) 1CM40	Modeling and analysis of manufacturing systems (D) 1CM10		
		Circular service supply chains (A) 1CM280		
AND				
1 out of 2		Implementing and adapting to artificial intelligence in organizations (C2) 1JM50	Performance enhancement (E) 1JM11	
AND				
1 out of 2		Business process management (C1) 1BM05		
		Business analysis for information technology systems (E2+E3) 1BM20		

Curriculum Track Supply Chain Management
Master Operations Management and Logistics 2024-2025

Q1	Q2	Q3	Q4
Year 1			
Electives (minimum of 10 ECTS): All courses listed as possible (track) elective, but not yet selected by student			
Perspectives on medical technology (C) 0LM120	Decision-making in transport and mobility (A) 1CM110	Artificial intelligence for logistics and its interfaces (D) 1CM240	Decision making with artificial and computational intelligence (C) 1BM120
Engineering knowledge-intensive business processes (B2+B3) 1BM140	Warehouse operations management (B2+B3) 1CM300	Behavioral operations management (A) 1JM40	Design of AI-driven business operations (B1) 1BM310
Integrated financial and operations management (B) 1CM270	Robust decision making (E1) 1CM320	Advanced simulation (A) 2DI66	Game theory with applications to operations management (D) 1CM36
Advanced planning and scheduling systems (C) 1CM150	Multivariate statistics (A) 1ZM31		Sustainable supply chains (E) 1CM170
			Designing effective performance management systems (A1) 1JM21
			System dynamics (B) 1ZM65
			Managing team dynamics & team performance (C2) 1JM30

Curriculum Track Smart Industry
Master Operations Management and Logistics 2024-2025

	Q1	Q2	Q3	Q4
Year 1				
Course 1	Research methods (E) 1JM110	Modeling and analysis of manufacturing systems (D) 1CM10	Data-driven artificial intelligence (C2) 1BM110	Design for smart industry (B2) 1CM310
Course 2	Maintenance optimization and engineering (A) 1CM290	Track elective / Elective / Free elective	Track elective / Elective / Free elective	Data-driven methods for managing manufacturing processes (B1) 1BM170
Course 3	Elective / Free elective	Elective / Free elective	Elective / Free elective	Elective / Free elective
Track Electives				
1 out of 2		Implementing and adapting to artificial intelligence in organizations (C2) 1JM50	Performance enhancement (E) 1JM11	
Electives (minimum of 10 ECTS): **All courses listed as possible (track) elective, but not yet selected by student**				
	Integrated financial and operations management (B) 1CM270	Business analysis for information technology systems (E2+E3) 1BM20	Behavioral operations management (A) 1JM40	Decision making with artificial and computational intelligence (C) 1BM120
	Advanced planning and scheduling systems (C) 1CM150	Warehouse operations management (B2+B3) 1CM300	Advanced simulation (A) 2DI66	Game theory with applications to operations management (D) 1CM36
	Manufacturing technology (D) 1CM160	Robust decision making (E1) 1CM320	Multi-echelon inventory management (C1) 1CM100	Sustainable supply chains (E) 1CM170
	Engineering knowledge-intensive business processes (B2+B3) 1BM140	Circular service supply chains (A) 1CM280		Designing effective performance management systems (A1) 1JM21
		Business process management (C1) 1BM05		Hybrid meta-heuristic algorithms for smart industries (C) 1CM330

Curriculum Track Analytics for Transport and Mobility
Master Operations Management and Logistics 2024-2025

	Q1	Q2	Q3	Q4
Year 1				
Course 1	Research methods (E) 1JM110	Decision-making in transport and mobility (A) 1CM110	Data-driven artificial intelligence (C2) 1BM110	Design for transport and logistics (B) 1CM130
Course 2	Track elective / Elective / Free elective	Business-analysis for information technology systems (E2+E3) 1BM20	Track elective / Elective / Free elective	Elective / Free elective
Course 3	Elective / Free elective	Track elective / Elective / Free elective	Track elective / Elective / Free elective	Elective / Free elective
Track Electives				
1 out of 2	Large-scale optimization in transportation and mobility (D) 1CM260		Artificial intelligece for logistics and its interfaces 1CM240	
AND				
1 out of 2		Implementing and adapting to artificial intelligence in organizations (C2) 1JM50	Performance enhancement (E) 1JM11	
Electives (minimum of 10 ECTS): All courses listed as possible (track) elective, but not yet selected by student				
	Integrated financial and operations management (B) 1CM270	Business process management (C1) 1BM05	Multi-echelon inventory management (C1) 1CM100	Decision making with artificial and computational intelligence (C) 1BM120
	Retail operations (C) 1CM40	Modeling and analysis of manufacturing systems (D) 1CM10	Behavioral operations management (A) 1JM40	Design of AI-driven business operations (B1) 1BM130
		Warehouse operations management (B2+B3) (E1) 1CM300	Advanced simulation (A) 2DI66	Game theory with applications to operations management (D) 1CM36
		Robust decision making (E1) 1CM320		Sustainable supply chains (E) 1CM170