

M-IEM Recommended Course Schedules 2024-2025

		Start September						
		Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3 + Q4
	Orientation					Option to study abroad *		
PLM	Service Logistics and Maintenance Management	IEM Research Orientation	Data Science for Engineers	Reliability Eng. & Maintenance Mgmt.	OR 2: Stochastic Optimization and Learning		Thesis Preparation	Thesis
		Simulation	After Sales Service Logistics	SMOM**				
		OR 1: Deterministic Optimization and Heuristics	Advanced Inventory Mgmt.					
	Supply Chain and Transportation Management	IEM Research Orientation	Data Science for Engineers	Transportation and Logistics Mgmt.	OR 2: Stochastic Optimization and Learning		Thesis Preparation	
		Simulation	After Sales Service Logistics	SMOM**				
		OR 1: Deterministic Optimization and Heuristics	Advanced Inventory Mgmt.					
	Manufacturing Logistics	IEM Research Orientation	Data Science for Engineers	SMOM**	OR 2: Stochastic Optimization and Learning	Warehousing	Thesis Preparation	
		Simulation			Planning and Scheduling			
		OR 1: Deterministic Optimization and Heuristics	Advanced Inventory Mgmt.					
	Operations Management in Healthcare	IEM Research Orientation	Data Science for Engineers	SMOM**	OR 2: Stochastic Optimization and Learning	Statistics & Probability	Thesis Preparation	
		Simulation			Planning and Scheduling		Optimization of HC Processes	
		OR 1: Deterministic Optimization and Heuristics						
HCTM	Healthcare Technology and Management	IEM Research Orientation	Data Science for Engineers	Adv. Discrete Event Simulation	Decision Making in Healthcare	Applied Statistical Learning	Thesis Preparation	
		Simulation		SMOM**	OR 2: Stochastic Optimization and Learning			
		OR 1: Deterministic Optimization and Heuristics						
FEM	Valuation and Risk Management	IEM Research Orientation	Data Science for Engineers	Risk Management		Micro Economics	Thesis Preparation	
		Statistics & Probability	Mathematical Finance	Structured Products				
			Introduction to Risk Theory					
	Financial Technology	IEM Research Orientation	Data Science for Engineers	Risk Management	Reinforcement Learning with Applications	Micro Economics	Thesis Preparation	
		Statistics & Probability	Mathematical Finance	Information Systems f/t Fin. Services Industry				

Be aware that some overlap in MyTimetable schedules of electives cannot be avoided.

*If you **study abroad**, you are allowed to exchange one mandatory course for a comparable alternative course abroad. Furthermore, the Preparation Thesis course can be taken and finished at all times.

**** Stochastic Models for Operations Management (SMOM) is:**
- **mandatory** for PLM and HCTM students who did a pre-master;
- **not allowed** for students with an UT IEM-BSc background;
- **possibly mandatory** for **international students** in case of a deficiency.
Consult the specialisation coordinator to check what applies to your situation.

M-IEM Recommended Course Schedules 2024-2025

		Start November						
		Q2	Q3	Q4	Q1	Year 2 Q2	Q3	Q4 + Q1
	Orientation					Option to study abroad *		
PLM	Service Logistics and Maintenance Management	Data Science for Engineers	IEM Research Orientation	OR 2: Stochastic Optimization and Learning	Simulation		Thesis Preparation	Thesis
		After Sales Service Logistics	SMOM**				Reliability Eng. & Maintenance Mgmt. ***	
		Advanced Inventory Mgmt.	OR 1: Deterministic Optimization and Heuristics					
	Supply Chain and Transportation Management	Data Science for Engineers	IEM Research Orientation	OR 2: Stochastic Optimization and Learning	Simulation		Thesis Preparation	
		After Sales Service Logistics	SMOM**				Transportation and Logistics Mgmt. ***	
		Advanced Inventory Mgmt.	OR 1: Deterministic Optimization and Heuristics					
	Manufacturing Logistics	Data Science for Engineers	IEM Research Orientation	OR 2: Stochastic Optimization and Learning	Warehousing		Thesis Preparation	
			SMOM**	Planning and Scheduling	Simulation			
		Advanced Inventory Mgmt.	OR 1: Deterministic Optimization and Heuristics					
	Operations Management in Healthcare	Data Science for Engineers	IEM Research Orientation	OR 2: Stochastic Optimization and Learning	Statistics & Probability	Optimization of HC Processes	Thesis Preparation	
			SMOM**	Planning and Scheduling	Simulation			
			OR 1: Deterministic Optimization and Heuristics					
HCTM	Healthcare Technology and Management	Data Science for Engineers	IEM Research Orientation	Decision Making in Healthcare	Applied Statistical Learning		Thesis Preparation	
			SMOM**	OR 2: Stochastic Optimization and Learning	Simulation		Adv. Discrete Event Simulation ***	
			OR 1: Deterministic Optimization and Heuristics					
FEM	Valuation and Risk Management	Data Science for Engineers	Risk Management		Micro Economics		Thesis Preparation	
		Mathematical Finance	Structured Products		Statistics & Probability			
		Introduction to Risk Theory	IEM Research Orientation					
	Financial Technology	Data Science for Engineers	Risk Management	Reinforcement Learning with Applications	Micro Economics		Thesis Preparation	
		Mathematical Finance	Information Systems f/t Fin. Services Industry		Statistics & Probability			
			IEM Research Orientation					

Be aware that some overlap in MyTimetable schedules of electives cannot be avoided.

*If you **study abroad**, you are allowed to exchange one mandatory course for a comparable alternative course abroad. Furthermore, the Preparation Thesis course can be taken and finished at all times.

**** Stochastic Models for Operations Management (SMOM) is:**
- **mandatory** for PLM and HCTM students who did a pre-master;
- **not allowed** for students with an UT IEM-BSc background;
- **possibly mandatory** for **international students** in case of a deficiency.
Consult the specialisation coordinator to check what applies to your situation.

******* This course can be taken in the first year in case you do not have to take SMOM.

M-IEM Recommended Course Schedules 2024-2025

		Start February						
		Q3	Q4	Q1	Q2	Year 2 Q3	Q4	Q1 + Q2
	Orientation					Option to study abroad *		
PLM	Service Logistics and Maintenance Management	IEM Research Orientation	OR 2: Stochastic Optimization and Learning	Simulation	Data Science for Engineers	Reliability Eng. & Maintenance Mgmt. ***	Thesis Preparation	Thesis
		SMOM**			After Sales Service Logistics			
		OR 1: Deterministic Optimization and Heuristics			Advanced Inventory Mgmt.			
	Supply Chain and Transportation Management	IEM Research Orientation	OR 2: Stochastic Optimization and Learning	Simulation	Data Science for Engineers	Transportation and Logistics Mgmt. ***	Thesis Preparation	
		SMOM**			After Sales Service Logistics			
		OR 1: Deterministic Optimization and Heuristics			Advanced Inventory Mgmt.			
	Manufacturing Logistics	IEM Research Orientation	OR 2: Stochastic Optimization and Learning	Warehousing	Data Science for Engineers		Thesis Preparation	
		SMOM**	Planning and Scheduling	Simulation				
		OR 1: Deterministic Optimization and Heuristics			Advanced Inventory Mgmt.			
	Operations Management in Healthcare	IEM Research Orientation	OR 2: Stochastic Optimization and Learning	Statistics & Probability	Data Science for Engineers		Thesis Preparation	
		SMOM**	Planning and Scheduling	Simulation	Optimization of HC Processes			
		OR 1: Deterministic Optimization and Heuristics						
HCTM	Healthcare Technology and Management	IEM Research Orientation	Decision Making in Healthcare	Applied Statistical Learning	Data Science for Engineers	Adv. Discrete Event Simulation ***	Thesis Preparation	
		SMOM**	OR 2: Stochastic Optimization and Learning	Simulation				
		OR 1: Deterministic Optimization and Heuristics						
FEM	Valuation and Risk Management	IEM Research Orientation		Micro Economics	Data Science for Engineers	Risk Management	Thesis Preparation	
				Statistics & Probability	Mathematical Finance	Structured Products		
					Introduction to Risk Theory			
	Financial Technology	Information Systems f/t Fin. Services Industry	Reinforcement Learning with Applications	Micro Economics	Data Science for Engineers	Risk Management	Thesis Preparation	
		IEM Research Orientation		Statistics & Probability	Mathematical Finance			

Be aware that some overlap in MyTimetable schedules of electives cannot be avoided.

*If you **study abroad**, you are allowed to exchange one mandatory course for a comparable alternative course abroad. Furthermore, the Preparation Thesis course can be taken and finished at all times.

**** Stochastic Models for Operations Management (SMOM) is:**
- **mandatory** for PLM and HCTM students who did a pre-master;
- **not allowed** for students with an UT IEM-BSc background;
- **possibly mandatory** for **international students** in case of a deficiency.
Consult the specialisation coordinator to check what applies to your situation.

******* This course can be taken in the first year in case you do not have to take SMOM.

M-IEM Recommended Course Schedules 2024-2025

		Start May						
		Q4	Q1	Q2	Q3	Year 2 Q4	Q1	Q2 + Q3
	Orientation					Option to study abroad *		
PLM	Service Logistics and Maintenance Management		IEM Research Orientation	Data Science for Engineers	Reliability Eng. & Maintenance Mgmt.	OR 2: Stochastic Optimization and Learning	Thesis Preparation	Thesis
			Simulation	After Sales Service Logistics	SMOM**			
			OR 1: Deterministic Optimization and Heuristics	Advanced Inventory Mgmt.				
	Supply Chain and Transportation Management		IEM Research Orientation	Data Science for Engineers	Transportation and Logistics Mgmt.	OR 2: Stochastic Optimization and Learning	Thesis Preparation	
			Simulation	After Sales Service Logistics	SMOM**			
			OR 1: Deterministic Optimization and Heuristics	Advanced Inventory Mgmt.				
	Manufacturing Logistics		IEM Research Orientation	Data Science for Engineers		OR 2: Stochastic Optimization and Learning	Thesis Preparation	
			Simulation		SMOM**	Planning and Scheduling	Warehousing	
			OR 1: Deterministic Optimization and Heuristics	Advanced Inventory Mgmt.				
	Operations Management in Healthcare		IEM Research Orientation	Data Science for Engineers		OR 2: Stochastic Optimization and Learning	Thesis Preparation	
			Simulation	Optimization of HC Processes	SMOM**	Planning and Scheduling	Statistics & Probability	
			OR 1: Deterministic Optimization and Heuristics					
HCTM	Healthcare Technology and Management	Decision Making in Healthcare	IEM Research Orientation	Data Science for Engineers	Adv. Discrete Event Simulation	OR 2: Stochastic Optimization and Learning	Thesis Preparation	
			Simulation		SMOM**		Applied Statistical Learning	
			OR 1: Deterministic Optimization and Heuristics					
FEM	Valuation and Risk Management		Statistics & Probability	Data Science for Engineers	Risk Management		Thesis Preparation	
			IEM Research Orientation	Mathematical Finance	Structured Products		Micro Economics	
				Introduction to Risk Theory				
	Financial Technology	Reinforcement Learning with Applications	Statistics & Probability	Data Science for Engineers	Information Systems f/t Fin. Services Industry		Thesis Preparation	
			IEM Research Orientation	Mathematical Finance	Risk Management		Micro Economics	

Be aware that some overlap in MyTimetable schedules of electives cannot be avoided.

*If you **study abroad**, you are allowed to exchange one mandatory course for a comparable alternative course abroad. Furthermore, the Preparation Thesis course can be taken and finished at all times.

**** Stochastic Models for Operations Management (SMOM) is:**
- **mandatory** for PLM and HCTM students who did a pre-master;
- **not allowed** for students with an UT IEM-BSc background;
- **possibly mandatory** for **international students** in case of a deficiency.
Consult the specialisation coordinator to check what applies to your situation.