IEM Recommended Course Schedules 2023-2024

Colour coding:

Mandatory courses for all IEM students						
PLM Mandatory courses	HCTM Mandatory courses	FEM Mandatory courses				
PLM orientation courses	HCTM orientation courses	FEM orientation courses				

	PLM Researc	HCTM Research Orientation	FEM Research Orientation		
	Operations Resea	ORT1	Statistics & Probability		
	Stochastic Optimiz	Stochastic Optimization and	Micro Economics		
	Simu	Simulation	Mathematical Finance		
Service Logistics and	Supply Chain and Transport	Manufacturing Logistics	Operations Management in	Healthcare Technology and	Financial Engineering and
Maintenance Management	Management	Manufacturing Logistics	Healthcare	Management	Management
After-Sales Service Logistics	Transportation and Logistics Management	Planning & Scheduling	Planning & Scheduling	Adv. Discrete Event Simulation	Introduction to Risk Theory
Reliability Engineering & Maintenance Mngt	Advanced Inventory Management	Advanced Inventory Management	Statistics & Probability	Decision Making in HC	Risk Management
Advanced Inventory Management	After-Sales Service Logistics	Warehousing	Optimization of Healthcare Processes	Applied Statistical Learning	Structured Products

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

*If you **study abroad**, you are allowed to exchange one mandatory course for a comparable alternative course abroad. There is also the possibility to make arrangements to finish one mandatory IEM course while you are 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;

Start September ↓		Start February ↓					
				Option to study abroad *			
September PLM Service Logistics and Maintenance Management							
Year 1: Q1	Q2	Q3	Q4	Year 2: Q1	Q2	Q3	Q4
IEM Research Orientation	Data Science	SMOM**			Thesis Preparation		
Simulation	After Sales Service Logistics		Stochastic Optimization and Learning			Th	esis
Operations Research Techniques 1	Advanced Inventory Mgmt.	Reliability Eng. & Maintenance Mgmt.					

			Option to study abroad *			
February PLM Service Logisti	cs and Maintenance Manager	Year 2:				
Q3	Q4	Q1	Q2	Q3	Q4	Q1 Q2
IEM Research Orientation		Simulation	Data Science	Reliability Eng. & Maintenance Mgmt.	Thesis Preparation	
SMOM**	Stochastic Optimization and Learning		Advanced Inventory Mgmt.			Thesis
Operations Research Techniques 1			After Sales Service Logistics			

	Option to st						
September PLM Supply Chain and Transportation Management							
Year 1: Q1	Q2	Q3	Q4	Year 2: Q1	Q2	Q3	Q4
IEM Research Orientation	Data Science	Transportation and Logistics Mgmt.			Thesis Preparation	Thesis	
Simulation	After Sales Service Logistics	SMOM**	Stochastic Optimization and Learning				
Operations Research Techniques 1	Advanced Inventory Mgmt.						

	Option to study abroad *	
February PLM Supply Chain and Transportation Management	Year 2:	

Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
IEM Research Orientation		Simulation	After Sales Service Logistics	Transportation and Logistics Mgmt.	Thesis Preparation		
SMOM**	Stochastic Optimization and Learning		Advanced Inventory Mgmt.			Th	nesis
Operations Research Techniques 1			Data Science				

				Option to study abroad *			
September PLM Manufacturing Logistics							
Year 1: Q1	Q2	Q3	Q4	Year 2: Q1	Q2	Q3	Q4
IEM Research Orientation	Data Science		Stochastic Optimization and Learning		Thesis Preparation	Thesis	
Simulation			Planning and Scheduling				
Operations Research Techniques 1	Advanced Inventory Mgmt.	SMOM**	Warehousing				

			Option to study abroad *				
February PLM Manufacturin	g logistics	Year 2:					
Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
IEM Research Orientation			Data Science		Thesis Preparation		
Operations Research Techniques 1	Stochastic Optimization and Learning	Simulation	Advanced Inventory Mgmt.		Planning and Scheduling T		esis
SMOM**	Warehousing						

				Option to study abroad *				
September PLM Operations Management in Healthcare								
Year 1: Q1	Q2	Q3	Q4	Year 2: Q1	Q2	Q3	Q4	
IEM Research Orientation	Data Science	Optimization of HC Processes	Stochastic Optimization and Learning	Statistics & Probability	Thesis Preparation			
Simulation			Planning and Scheduling			Thesis		
Operations Research Techniques 1		SMOM**						

		Option to study abroad *				
February PLM Operations Management in Healthcare				Year 2:		
Q3	Q4	Q1	Q2	Q3	Q4	Q1 Q2
IEM Research Orientation	Stochastic Optimization and Learning	Simulation	Data Science		Thesis Preparation	
SMOM**		Statistics & Probability		Optimization of HC Processes	Planning and Scheduling	Thesis
Operations Research Techniques 1						

				Option to study abroad *			
September Health Care Technology and Management							
Year 1: Q1	Q2	Q3	Q4	Year 2: Q1	Q2	Q3	Q4
IEM Research Orientation	Data Science	Adv. Discrete Event Simulation	Decision Making in Healthcare	Applied Statistical Learning	Thesis Preparation		

Simulation				Thesis
Operations Research Techniques 1	SMOM**	Stochastic Optimization and Learning		

		Option to study abroad *				
February Health Care Technology and Management				Year 2:		
Q3	Q4	Q1	Q2	Q3	Q4	Q1 Q2
IEM Research Orientation	Decision Making in Healthcare	Simulation		Adv. Discrete Event Simulation	Thesis Preparation	
SMOM**		Applied Statistical Learning	Data Science			Thesis
Operations Research Techniques 1	Stochastic Optimization and Learning					

			Option to study abroad *				
September Financial Engineering and Management							
Year 1: Q1	Q2	Q3	Q4	Year 2: Q1	Q2	Q3	Q4
IEM Research Orientation	Data Science	Risk Management		Micro Economics	Thesis Preparation	Thesis	
Statistics & Probability	Mathematical Finance	Structured Products					
	Introduction to Risk Theory						

				Option to study abroad *		
February Financial Engineering and Management				Year 2:		
Q3	Q4	Q1	Q2	Q3	Q4	Q1 Q2
IEM Research Orientation		Statistics & Probability	Mathematical Finance	Structured Products	Thesis Preparation	
Data Science		Micro Economics	Introduction to Risk Theory	Risk Management		Thesis