

# 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 Research Orientation				HCTM Research Orientation	FEM Research Orientation
Operations Research Techniques 1				ORT1	Statistics & Probability
Operations Research Techniques 2				ORT2	Micro Economics
Simulation				Simulation	Mathematical Finance
Service Logistics and Maintenance Management	Supply Chain and Transport Management	Manufacturing Logistics	Operations Management in Healthcare	Healthcare Technology and Management	Financial Engineering and Management
After-Sales Service Logistics	Transportation and Logistics Management	Planning & Scheduling	Planning & Scheduling	Adv. Sim. for Health Economic Analysis	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 ↓
-------------------	------------------

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

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

September PLM Supply Chain and Transportation Management				Option to study abroad *			
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**	Operations Research Techniques 2				
Operations Research Techniques 1	Advanced Inventory Mgmt.						

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	Thesis	
SMOM**	Operations Research Techniques 2		Advanced Inventory Mgmt.				
Operations Research Techniques 1			Data Science				

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

February PLM Manufacturing logistics				Year 2:			
Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
IEM Research Orientation			Data Science		Thesis Preparation	Thesis	
Operations Research Techniques 1	Operations Research Techniques 2	Simulation	Advanced Inventory Mgmt.		Planning and Scheduling		
SMOM**	Warehousing						

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

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

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

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

September Financial Engineering and Management				Option to study abroad *			
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						

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