

September

2017-2018

In order to graduate students' individual study programme's' must be approved by the specialization coordinator

Legenda:

Specializations		Orientations					
F = Financial Engineering and Management		F	Financial Engineering and Management				
H = Health Care and Technology Management		H	Health Care and Technology Management				
P = Production and Logistic Management		s	Service logistics	m	Manufacturing		
		t	SCM & transportation	hl	Health logistics		
<b>first year, September</b>				Mandatory courses	Mandatory courses	Recom- mended	Prior
Quartile/ Code	Coursename	Exam	EC	Specialization	Orientation	electives	knowledge
1.1, sept							
201700020	IEM Research Orientation	PSS	5	F/P/H			
191506103	Statistics and probability (+)	S	5		F	P/H	
191860651	Micro Economics	S	5		F		
191820200	Discrete Optimization of Business Processes (1)	PSS	2,5	P/H			
191820210	Simulation (1)	PSS	2,5	P/H			
1.2, nov							
201300060	Mathematical Finance	S	5	F			
191515101	Introduction to Risk Theory	S	5	F			
201400174	Data Science	PSS	5	F/P/H			
191820210	Simulation (2)	PSS	2,5	P/H			
191820200	Discrete Optimization of Business Processes (2)	PSS	2,5	P/H			
191820180	Reverse Logistics & re-manufacturing	PSS	5		s/t/m		
201600032	Quality Management in Healthcare		5		H	hl	
1.3, febr							
191860181	Risk Management	PSS	5		F		
201300062	Structured Products	S	5		F		
191820190	Supply Chain - & Transport Management	PSS	5		t	s/m/hl	
191852630	Reliability Engineering & Maintenance Management	PSS	5		s	t/m/hl	
201700196	Advanced Health Economic Modeling				H	hl	

194121020	Optimization of Healthcare Processes	S	5		hl	P/H	
201600015	Strategic technology management and Innovation	PSS	5			F/P/H	
192340101	Implementation of IT in organizations	PSM	5			F/P/H	
1.4, apr							
201000202	Management Control for Financial Institutions	PSS	5		F		
201100162	Management of Technology for FEM	PSS	5		F		
194105070	Information Systems for the Financial Services Industry	PSS	5			F	
191852620	Advanced Production Planning	S	5		m/hl	s/t/H	
191820120	Warehousing	PSS	5		m	s/t/hl/H	
194122030	New Production Concepts	PSS	5			P	
201700197	Decision Making in Health Care		5		H	hl	
192360501	E-Health Strategies	S	5			hl/H	
1.3, sept 2018	<b>Preliminary programme 2018-2019 (under construction)</b>						
<b>second year</b>							<b>Prior knowlegde</b>
2.1 sept 2018					<b>elective or study abroad</b>		
191521800	Game Theory	S	5			F	
191506103	Statistics and probability (+)	S	5			P/H	
191820160	Purchasing	PSS	5			P	
NEW	Health Care Finance		5		hl/H		
201700089	Sustainable Business Development					F/P/H	
201200146	Maintenance Engineering and Management					s/t/m	
MEW	Statistical learning in health care		5		H	hl	
	Research Elective		5-10			F/P/H	
2.2, nov							
201200127	Preparation thesis PLM	BAHL	5	P			
201200128	Preparation thesis FEM	BAHL	5	F			
201200130	Preparation thesis HCTM	BAHL	5	H			
201200138	Special Topics in Financial Engineering **	S	5			F	
201400244	Cost Management and Engineering	PSS	5			F/P/H	
195800200	Project Management	PSS	7,5			F/P/H	
	Research Elective		5-10			F/P/H	

2.3 + 2.4							
194100060	Master thesis		30	F/P/H			80 EC incl. preparation course

(+) Students who already finished this MSc course before the master, have to contact the specialization coordinator

\*\* Students who study abroad during the second years first semester, are exempted from this obligatory course.

**Contact your specialization coordinator for approval of your study program**

**WARNING** If you consider going abroad for a semester mandatory courses should be planned carefully.

**How to plan your program**

All students join mandatory courses . During this first quartile you discuss your ideas about your individual program with your specialization coordinator. Draft your plan:

1 Write down your mandatory courses

2 Complete your IEM study program up to 120 EC with:

*Elective (i.e. equalizatio) to discuss with the specialization coordinator*

*a) other technical UT master courses (i.c. IEM)*

*b) master courses from other (inter)national technical Master program's*

3 Discuss your complete study program (and your personal motivation) with your study counselor

4 Get a final approval from your specialization coordinator

Implementation of non-technical or (inter)national courses need approval from the specialization coordinator and the exam committee.