

Industrial Engineering and Management								February 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		
first year, February										
Quartile/ Code	Course name	Exam	EC	Mandatory courses Specialization	Mandatory courses Orientation	Recom- mended electives	Prior knowledge			
1.1, febr	elective or abroad			elective or study abroad						
201700020	IEM Research Orientation	PSS	5	F/P/H						
201400174	Data Science (also offered in November)	PSS	5	F/P/H						
191820190	Supply Chain - & Transport Management	PSS	5		s/t	m/hl				
192340101	Implementation of IT in organizations	PSS	5			F/P/H				
194121020	Optimization of Healthcare Processes	PSS	5		hl/H	s/t				
201600015	Strategic Technology Management and Innovation	PSS	5			F/P/H				
1.2, apr	elective or abroad			elective or study abroad						
195820500	Infrastructure Management	PSS	7,5			P				
192376000	Business Case Development for IT Projects	PSS	5			P				
201100162	Management of Technology for FEM	PSS	5			F				
201000202	Management Control for Financial Institutions	PSS	5			F				
191820120	Warehousing	PSS	5		m	s/t/hl/H				
194105070	Information Systems for the Financial Services Industry	PSS	5			F				
201700197	Decision Making in Health Care	PSS	5		H					
192360501	E-health Strategies	S	5			H				
194122030	New Production Concepts	PSS	5			P				
1.3, sept 2018 Preliminary programme 2018-2019 (under construction)										
201800002	Simulation (5 ec)		5	P/H		F				
201800003	Operations Research Techniques 1		5	P/H		F				
201800001	Supply Chain Finance		5	F/P						
191506103	Statistics and Probability (+)	S	5	F		P/H				
191860651	Micro Economics	S	5		F					
191521800	Game Theory	S	5			F				
NEW	Statistical Learning in HC		5		H	hl				
NEW	Health Care Finance		5		hl/H					
191820160	Purchasing	PSS	5			P/H				
201700089	Sustainable Business Development	PS	5			F/P/H				
201200146	Maintenance Engineering and Management	PS	5			P				
1.4, nov										
201800005	Operations Research Techniques 2		5	P/H		F				
201300060	Mathematical Finance	S	5		F					
191515101	Introduction to Risk Theory	S	5		F					
201200138	Special topics in Financial Engineering	PS	5			F				
201400244	Cost Management and Engineering	PSS	5			F/P/H				
201800008	After Sales Service Logistics		5		s/t	m/hl				
201800009	Advanced Inventory Management		5		s/t	m/hl				
201600032	Quality Management in Healthcare	PSS	5		H	hl				
second year								Prior knowlegde		
2.1, febr										
191860181	Risk Management	PSS	5		F					
201300062	Structured Products	S	5			F				

201800010	Transport and Traffic	PSS	5		t	s/m/hl	
201700196	Advanced Health Economic Modeling	PSS		H		hl	
191852630	Reliability Engineering & Maintenance Management	PSS	5		s/t	m/hl	
	Research elective		5-10			F/P/H	
2.2, apr							
201000202	Management Control for Financial Institutions	PSS	5			F	
201100162	Management of Technology for FEM	PSS	5			F	
201800007	Planning and Scheduling	S	5		m/hl	s/t/H	
191820120	Warehousing	PSS	5		m	s/t/h/H	
192360501	E-health Strategies	S	5			H	
201200128	Preparation Thesis FEM	BAHL	5	F			
201200127	Preparation Thesis PLM	BAHL	5	P			
201200130	Preparation Thesis HCTM	BAHL	5	H			
	Research Elective		5-10			F/P/H	
2.3 + 2.4							
194100060	Master Thesis	BAM	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 the specialisation 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. equalization) 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.