

MSc Industrial Engineering & Management 2017-2018			
Specialisation and recommended (UT) elective courses			
UNDER CONSTRUCTION			
Code	Course names	EC	Quartile (Sept = Q1)
FEM: mandatory courses			
191860651	Micro Economics	5	1
201200138	Special topics in Financial Engineering	5	2
201300060	Mathematical Finance	5	2
201300062	Structured Products	5	3
191515101	Introduction to Risk Theory	5	2
191860181	Risk Management	5	3
201000202	Management Control for Financial Institutions	5	4
191506103	<i>Statistics and probability</i>	5	1
201100162	Management of Technology for FEM	5	4
201700020	IEM Research Orientations	5	1 and 3
201400174	<i>Data Science</i>	5	2 and 3
201200128	<i>Preparation thesis</i>	5	2
194100060	<i>Master thesis</i>	30	
FEM additional elective courses			
191521800	Game Theory	5	1
201400244	Cost Management and Engineering	5	2
194105070	Information Systems for the Financial Services Industry	5	4
191820210	Simulation (2x2,5 EC)	5	1-2
PLM: mandatory courses			
191820200	Discrete Optimization of Business Processes (2x2,5 EC)	5	1-2
191820210	Simulation (2x2,5 EC)	5	1-2
191820190	Supply Chain - & Transport Management	5	3
191852620	Advanced Production Planning	5	4
191820120	Warehousing	5	4
201700020	IEM Research Orientations	5	1 and 3
201400174	<i>Data Science</i>	5	2 and 3
201200127	<i>Preparation thesis</i>	5	2
194100060	<i>Master thesis</i>	30	
PLM additional elective courses			
191506103	Statistics and probability	5	1
191820160	Purchasing	5	1
191102041	Manufacturing Facility Design	5	2
194121020	Optimization of Healthcare Processes	5	3
191852630	Reliability Engineering & Maintenance Management	5	3
191820180	Reverse Logistics & re-manufacturing	5	2
201200146	Maintenance Engineering & Management	5	1
194122030	New Production Concepts	5	4
HCTM: mandatory courses			
191820200	Discrete Optimization of Business Processes (2x2,5 EC)	5	1-2
191820210	Simulation (2x2,5 EC)	5	1-2
194121020	Optimization of Healthcare Processes	5	3
201700196	Advanced Health Economic Modeling	5	3
201700197	Decision Making in Health Care	5	4
201700020	IEM Research Orientations	5	1 and 3
201400174	<i>Data Science</i>	5	2
201200130	<i>Preparation thesis</i>	5	2
194100060	<i>Master thesis</i>	30	
HCTM additional elective courses			
191506103	Statistics and probability	5	1
192360501	E-health strategies	5	4
201600032	Quality Management in Healthcare	5	2
192340101	Implementation of IT in organizations	5	3
191820160	Purchasing	5	1

191820120	Warehousing	5	4
Some study paths			
Course Code	Course Name	EC	Quartile (Sept = Q1)
Information and Technology Management: Courses offered by Master Business Information Technology			
191863960	Foundation of Information systems	5	1
192376500	Business Process Integration Lab	5	1
201100051	Information Services	5	2
192340101	Implementation of IT in organizations	5	3
192376000	Business Case Development for IT Projects	5	4
192320501	Electronic commerce	5	3
192360021	ICT Management	5	3
Technology Venturing and Innovation Management (Courses offered by Business Administration)			
<i>These courses can not be taken separately but only as a package of 30EC</i>			
201600015	Strategic Technology Management and Innovation	5	3
194108040	Business Development in Network Perspective	5	2
201600012	Management and Governance of Innovation and Creativity	5	1
201600011	International Entrepreneurship - a strategic technology perspective	5	1
201600002	Entrepreneurial Leadership & Responsible Organizational Design	5	1
201000087	Entrepreneurial Finance	5	3
Maintenance: Courses offered by Master Mechanical Engineering and Industrial Engineering and Management			
201200146	Maintenance Engineering & Management	5	1
191820180	Reverse Logistics & Remanufacturing	5	2
201300038	Failure Mechanisms & Life Prediction	5	2
191852630	Reliability Engineering & Maintenance Management	5	3
201300039	Structural Health & Condition Monitoring	5	4
	<i>extra</i>		
201400040	Dynamics & Control (links to 201300038)	5	1
191155730	Tribology (links to 201300039)	5	2
201200145	Design for Maintenance (IO)	5	
195820500	Infrastructure Management	7,5	4

Be aware that for electives you always have to check the relevant study programmes and schedule on the website