

MSc Industrial Engineering & Management 2016-2017
Specialization and recommended (UT) elective courses

Code	Course names	EC	Quartile (Sept = Q1)
FEM: obligatory 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
201100162	Management of Technology for FEM	5	4
191506103	<i>Statistics and probability</i>	5	1
201400174	<i>Data Science</i>	5	2
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
191864610	Organization & Strategy	5	2
194105070	Information Systems for the Financial Services Industry	5	4
191820210	Simulation (2x2,5 EC)	5	1-2
PLM: obligatory 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
191506103	<i>Statistics and probability</i>	5	1
201400174	<i>Data Science</i>	5	2 en 3
201200127	<i>Preparation thesis</i>	5	2
194100060	<i>Master thesis</i>	30	
PLM additional elective courses			
191820160	Purchasing	5	1
191864610	Organization & Strategy	5	2
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: obligatory 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
193640070	Clinical Safety and Quality Assurance	5	3
192360501	E-health strategies	5	4
191506103	<i>Statistics and probability</i>	5	1
201400174	<i>Data Science</i>	5	2
201200130	<i>Preparation thesis</i>	5	2
194100060	<i>Master thesis</i>	30	
HCTM additional elective courses			
???	Methods for early health technology assessment	15	1
201600025	Quality management in healthcare	5	2
201600026	Health economics: maximizing societal Welfare	5	2
191864610	Organization & Strategy	5	2

191820160	Purchasing or	5	1
201600029	Finance & Healthcare purchasing	5	2
191820120	Warehousing	5	4
Study paths; a minor in your master programme			
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)			
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	2 and 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

Joosten
Joosten
Roorda
Roorda
Mandal
Roorda
Roorda
Roorda
Mandal
Keulen, van Miaurice

Timmer
Joosten
Singeram, I
Hillegersberg
Mes

Schutten
Mes
Schuur
Schutten
Schuur
Mandal
Keulen, van Miaurice

Telgen/Schotanus
Singeram, I
Hoekstra, dr.ir. S.
Hans
Al Hanbeli
Schuur/Heijden, v.d. Roosteren naast verplicht PLM vakken
Braaksma, dr. A.J.J.
Hoffmann, dr.ir. P.

Schutten
Mes
Hans
Vaartjes, S.R.
Spil
Mandal
Keulen, van Miaurice

Harten, van W.H.

Singeram, I

Telgen/Schotanus
Telgen/Schotanus
Schuur

certificaat

vakken (incl preparation course)
Thesis

30EC
30EC

