

MSc Industrial Engineering & Management 2014-2015

Specialisation and recommended elective courses

Code	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
191860181	Risk Management	5	3
201000202	Management Control for Financial Institutions	5	4
201100162	Management of Technology for FEM	5	4
194121110	<i>Introduction to Industrial Engineering and Management</i>	5	1
191506103	<i>Statistics and probability</i>	5	1
191800770	<i>Empirical Research & Data Analysis</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
201100163	Management of Technology for PLM	5	3
194121110	<i>Introduction to Industrial Engineering and Management</i>	5	1
191506103	<i>Statistics and probability</i>	5	1
191800770	<i>Empirical Research & Data Analysis</i>	5	2
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
194121020	Optimization of Healthcare Processes	5	3
191852630	Reliability engineering & Maintenance management	5	3
191820180	Reverse Logistics & re-manufacturing	5	2
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
194112110	Health & Health Systems	5	2
193640070	Clinical Safety and Quality Assurance	5	3
192360501	E-health strategies	5	4
201000182	Management of Technology for Health Care	5	1

194121110	Introduction to Industrial Engineering and Management	5	1
191506103	Statistics and probability	5	1
191800770	Empirical Research & Data Analysis	5	2
201200130	Preparation thesis	5	2
194100060	Master thesis	30	
HCTM additional elective courses			
194111210	Medical decision making	5	1
194111220	Clinical efficacy & MTA	5	1
194112170	Quality and Safety in Health Care	5	2
191864610	Organization & Strategy	5	2
191820160	Purchasing <u>or</u>	5	1
201100002	Healthcare Purchasing	5	1
191820120	Warehousing	5	4
Extra electives:			
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
201100052	Global Project Management	5	4
Technology Venturing and Innovation Management (Courses offered by Business Administration)			
<i>These courses can not be taken separately but only as a package of 25 or 30EC</i>			
191810840	Management of Organisation, Operations and Technological Innovation	5	2, 3
194108040	Business Development in Network Perspective, OR	5	1
	<i>three or four of the below mentioned courses:</i>		
194111500	a) Innovation & Technology Dynamics	5	3
194108030	b) Principles of Entrepreneurship	5	2
194120140	c) HRM, Innovation & Entrepreneurship	5	2
201000087	d) Entrepreneurial Finance	5	2
201000156	e) International entrepreneurship	5	4
201100054	f) Supply Chain Management & Innovation	5	2
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>		
191157740	Advanced Dynamics (links to 201300038)	5	1
191155730	Tribology (links to 201300039)	5	2

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