

MIM: in sum from both periods 30 ECTS for TUM as "electives"

MMT: in sum from both periods 24 ECTS for TUM as "electives" and/or specialization in Management (OSCM or I&E)

This course catalogue is preliminary and courses can change (Mai 2020)

Course list DTU fall semester Sep-Dec (25 ECTS) DTU Management Engineering

http://kurser.dtu.dk/search?CourseCode=&SearchKeyword=&SchedulePlacement=E1%3BE2%3BE3%3BE4%3BE5%3BE1A%3BE2A%3BE3A%3BE4A%3BE5A%3BE1B%3BE2B%3BE3B%3BE4B%3BE5B%3BE&Department=42&CourseType=DTU_MSC&TeachingLanguage=

number	course title	ECTS	MMT Specialization						MIM		
			Elective in Management and/or Technology	OSCM	I&E	equivalent TUM course	Examiner	WI Number	ECTS	MIM Elective in Management	ECTS
1	42002 - Modelling and Analysis of Sustainable Energy Systems using Operations Research	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42003 - Energy Economics	10	x			Elective in Management and/or Technology			10 ECTS	x	10 ECTS
1	42004 - Feasibility studies of energy projects	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42007 - Energy systems analysis and scenarios	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42071 - Product development in an organizational context	5			x	Module from DTU 1:1 Program		WI700007	6 ECTS	x	5 ECTS
1	42081 - Staging co-creation and creativity	5			x	Lead User Project	Prof. Henkel	WI000116	6 ECTS	x	5 ECTS
1	42085 - Strategy, design and market	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42087 - Design Methods and Reflective Practice	10	x			Elective in Management and/or Technology			10 ECTS		
1	42104 - Introduction to Financial Engineering	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42111 - Static and Dynamic Optimization	5			x	Module from DTU 1:1 Program		WI700007	6 ECTS	x	5 ECTS
1	42114 - Integer Programming	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42115 - Network Optimization	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42117 - Transport Optimization	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42123 - Optimization in Finance	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42171 - System Safety and Reliability Engineering	5			x	Module from DTU 1:1 Program		WI700007	6 ECTS	x	5 ECTS
1	42178 - Transportation system analysis	5			x	Module from DTU 1:1 Program		WI700007	6 ECTS	x	5 ECTS
1	42182 - Survey analysis and traffic safety	5			x	Module from DTU 1:1 Program		WI700007	6 ECTS	x	5 ECTS
1	42184 - Data Science for Mobility	5			x	Module from DTU 1:1 Program		WI700007	6 ECTS	x	5 ECTS
1	42259 - Facilities Management	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42274 - Sustainable Development Indicators and Sustainable Urban Development	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42281 - Climate Change Adaptation: Methods and tools	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42282 - Smart Cities	5			x	Modeling Future Mobility Systems	Prof. Schiffe	WI001206	6 ECTS	x	5 ECTS
1	42349 - Sustainability challenges I, Systems thinking	7,5			x	Module from DTU 1:1 Program		WI700007	6 ECTS	x	7,5 ECTS
1	42350 - Sustainability challenges II, Specific systems and capstone project	7,5			x	Advanced Topics in Innovation & Entrepreneurship (WIB26001): Social Entrepreneurship Lab	Prof. Alexy	WIB26001	6 ECTS	x	7,5 ECTS
1	42351 - Sustainability in management	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42372 - Life Cycle Assessment of Products and Systems	10	x			Elective in Management and/or Technology			10 ECTS	x	10 ECTS
1	42376 - Operations Management in Health Care and Service Systems	5			x	Healthcare Operations Management	Prof. Kolisch	WI001034	6 ECTS	x	5 ECTS
1	42401 - Introduction to Management Science	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42435 - Knowledge-based Entrepreneurship	5			x	Case Study Seminar: Entrepreneurial Strategy	Prof. Milanov / Herr Reetz	WI000814	6 ECTS	x	5 ECTS
1	42436 - Commercialization of high tech concepts, entrepreneurship and science in action	5			x	Tech Challenge	UnternehmerTUM (Dominik Böhler)	WI001180	6 ECTS	x	5 ECTS
1	42438 Business model design for growth entrepreneurship	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42451 - Mass Customization - application of product configuration	10	x			Elective in Management and/or Technology			10 ECTS	x	10 ECTS

1	42490 - Technology, economics, management and organisation (TEMO)	10	x			Elective in Management and/or Technology			10 ECTS	x	10 ECTS
1	42530 - Strategy and Planning Methods	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42575 - Technology and Innovation Management	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42577 Introduction to Business Analytics	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42578 Advanced Business Analytics	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42631 - Environmental Economics	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42640 - Sociotechnical Design	10	x			Elective in Management and/or Technology			10 ECTS	x	10 ECTS
1	42879 - Decision Support and Strategic Assessment	5			x	Module from DTU 1:1 Program		W1700007	6 ECTS	x	5 ECTS
1	42880 - Railway Operations and Management	5			x	Module from DTU 1:1 Program		W1700007	6 ECTS	x	5 ECTS
1	42892 - Shipping and Port Logistics	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS

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Course list DTU January (5 ECTS) DTU Management Engineering
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number	course title	ECTS	MMT Elective in Management and/or Technology	MMT Specialization					MIM		
				OSCM	I&E	adäquater TUM Kurs	Examiner	WI Number	ECTS	MIM Elective in Management	ECTS
1	42006 - National energy system modelling with TIMES	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42112 - Mathematical Programming Modelling	5		x		Stochastic Modeling and Optimization	Prof. Kolisch	WI000977	6 ECTS	x	5 ECTS
1	42172 - Risk and decision-making	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42348 - Sustainable development of emerging technologies	5			x	Sustainable Entrepreneurship - Getting Started	Prof. Belz	WI001165	6 ECTS	x	5 ECTS
1	42439 - Market Opportunity Recognition for Technology	5			x	Advanced Topics in I&E: Opportunity Recognition and Technology	Prof. Breugst	WIB18815	6 ECTS	x	5 ECTS
1	42452 - Complexity Management	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS
1	42554 - Social Entrepreneurship: Consulting Theory and Practice	5	x			Elective in Management and/or Technology			5 ECTS	x	5 ECTS

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