Courses 2020-2021 master MW track MSE-W

Core courses 10 ECTS obligatory

Code	Vak naam/Course name	Timeslot	SP	Quartile
1CM160	Manufacturing Technology	B/E	5	Q1-Q3
4CM70	Integrated Systems Design	Е	5	Q2

One course from 4 of the following 5 pillars, 20 ECTS, where selecting a course from the pillar Machine design and control is obligatory:

Machine of	design and control			
4CM00	Control Engineering	C/E	5	Q1-Q3
4UM00	Microfabrication methods	B/B	5	Q1-Q4
Factory d	esign and control			
1CM10	Modeling & analysis of manufacturing systems	D	5	Q2
4DM40	Modelling and control of manufacturing networks	Α	5	Q4
Maintena	nce design and control			
1CM120	Advanced Maintenance and Service	D	5	Q1
	Fracture mechanics – theory and application	С	5	Q4

Supply network design and control				
1CM100	Multi Echelon inventory management	С	5	Q4
1CM140	Design of Operations Planning and control systems	B2	5	Q4

Al design and control				
2IMM20	Foundations of data mining	В	5	Q1
1BM120	Computational intelligence	E	5	Q4

Specialization courses, 15 ECTS from assigned section

Section MSE-CST

Code	Vak naam/Course name	Timeslot	SP
Kwart 1/C	uartile 1		
4CM00	Control Engineering	С	5
4CM10	System theory for control	В	5
Kwart 2/C	Quartile 2		
4CM60	Advanced motion control	В	5
Kwart 3/C	Quartile 3		
4CM00	Control Engineering	Е	5
4CM30	Supervisory control	С	5
4DM20	Engineering optimization	В	5
Kwart4/Q	uartile 4		
4CM20	Hybrid systems and control	В	5
4CM50	Application of design principles	D	5

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Section MSE-DC

Code	Vak naam/Course name	Timeslot	SP
Kwart 1/C	Quartile 1		
4CM00	Control Engineering	С	5
4DM00	Structural Dynamics and vibro-acoustics	А	5
Kwart 2/0	Quartile 2		
4DM10	Multibody and Non-linear Dynamics	А	5
Kwart 3/0	quartile 3		
4CM00	Control Engineering	Е	5
4DM30	Non-linear control	A	5
4DM60	Control of distributed parameter systems	Е	2,5
Kwart4/Q	uartile 4		
4DM40	Modelling and control of manufacturing systems	A	5
4DM50	Dynamics and control of cooperation	В	2,5

Section MSE-MS/PT

Code	Vak naam/Course name	Timeslot	SP
Kwart 1/C	Quartile 1		
4BM00	Advanced Engineering Mathematics for MW	Е	5
4CM00	Control Engineering	C/E	5
4UM00	Microfabrication methods	B/B	5
Kwart 2/C	Quartile 2		
4BM20	Experimentation for MW	Е	5
4EM40	Heat and Flow in microsystems	С	5
4LM20	Polymer processing	С	5
Kwart 3/C	Quartile 3		
4CM00	Control Engineering	C/E	5
4UM10	Microfluidics-put-to-work	А	5
Kwart4/Q	uartile 4		
4DM40	Modelling and control of manufacturing systems	A	5
4MM50	Fracture mechanics – theory and appl	С	5
4UM00	Microfabrication methods	B/B	5

Recommended homologation

Code	Vak naam/Course name	SP		
Online lect	Online lectures			
???	Stochastic modeling in inventory and production control	2,5		

Courses 2020-2021 master MW track MSE-W

Recommended free electives

Code	Vak naam/Course name	Timeslot	SP
Kwart 1/Q	uartile 1		
2IMM20	Foundations of data mining	В	5
Kwart 2/Q	uartile 2		
1BM05	Business process management	B1	5
1CM180	Configuration management	С	2,5
1CM200	Warehouse Operations Management	B2	2,5
Kwart 3/Q	uartile 3		
1BM110	Data analytics for business intelligence	С	5
2DI66	Advanced simulation	В	5
2DMN00	Design and analysis of experiments	D	5
Kwart4/Qı	uartile 4		
1BM120	Computational Intelligence	E	5