

MAS ETH MTEC Study Plan

Autumn Semester 2020 – Spring Semester 2022

CORE COURSES		Sem	Block	CP	Lecturer
<i>Please complete a minimum of 3 CP in at least 5 of 6 competence areas</i>					
General Management and Human Resource Management					
363-0301-00	Work Design and Organizational Change	1		3	G. Grote
363-0341-00	Introduction to Management	1		3	Z. Zagorac-Uremovic, S. Brusoni, J. O'Neil
363-0302-00	Human Resource Management: Leading Teams	2		3	G. Grote
363-1039-00	Introduction to Negotiation	2		3	M. Ambühl
Strategy, Markets and Technology					
363-0403-00	Introduction to Marketing	1		3	F. von Wangenheim
363-1077-00	Entrepreneurship	2		3	B. Clarysse
365-1097-00	Innovation Management ²	2	•	2	P. Bubbenzer
363-0392-00	Strategic Management	2/3		3	G. von Krogh, S. Herting
363-0387-00	Corporate Sustainability	3		3	V. Hoffmann, J. Meuer
Information Management and Operations Management					
363-0421-00	Mastering Digital Business Models	1		3	E. Fleisch
363-0445-00	Production and Operations Management	1		3	T. Netland
363-0425-00	Transformation: Corporate Development and IT	3		3	T. Gutzwiller
363-0453-00	Strategic Supply Chain Management	3		3	S. Wagner
Quantitative and Qualitative Methods for Solving Complex Problems					
363-0541-00	Systems Dynamics and Complexity	1		3	F. Schweitzer
365-1120-00	Executive Business Analytics ²	2		1	S. Feuerriegel
363-1004-00	Operations Research	3		3	S. Bütikofer van Oordt
363-0305-00	Empirical Methods in Management	3		3	S. Tillmanns
Micro and Macroeconomics					
363-0565-00	Principles of Macroeconomics	1		3	J.-E. Sturm
363-0503-00	Principles of Microeconomics	1		3	M. Filippini
363-0575-00	Economic Growth, Cycles and Policy ¹	2		3	H. Gersbach
363-0515-00	Decisions and Markets	2		3	A. Bommier
363-0537-00	Resource and Environmental Economics	3		3	L. Bretschger
Financial Management					
363-0711-00	Accounting for Managers	1		3	J.-P. Chardonens
363-0560-00	Financial Management	2		3	J.-P. Chardonens
363-0561-00	Financial Market Risks	3		3	D. Sornette
363-0723-00	Corporate Finance	3		3	A. Kind

Sem: Semester 1-4 Block: • block course CP: credit points

¹ Course has prerequisites. Please check the Course Catalogue for further information.

² MAS MTEC students only.

SKILL-BASED TRAINING (MAS MTEC students only)		Sem	Block	CP	Lecturer
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Please choose a minimum of 2 courses in the Skill-based Training category

365-0351-00	Presentation Skills ²	1	•	1	T. Skipwith
365-0881-00	Project Management Applied ^{2,4}	2	•	1	D. Ritler
365-0881-01	Advanced Project Management: Cases and Coaching ^{2,4}	2	•	1	D. T. Baumann, T. Haas, M. A. Zoller
365-1111-00	Entrepreneurial Learning: Theory, Practice, and Play ²	2	•	1	F. He
365-1099-00	Design Thinking: A Human-Centred Approach to Problem Solving ²	2/3	•	1	F. Rittiner
365-1092-00	Personal Leadership Skills ²	2/3	•	2	P. Romann
365-0347-00	Negotiation and Advocacy Skills ^{1,2}	3	•	1	M. Gutmann
365-1019-00	Human Resource Management: Skills in Practice ^{1,2}	3	•	2	M. Gubler, M. Kolbe
365-1053-00	Innovation, Creativity and Personality Traits ²	4	•	1	D. Laureiro Martinez, S. Brusoni

ELECTIVE COURSES

MAS MTEC Electives (MAS MTEC students only)

365-1083-00	Leading the Technology-Driven Enterprise ^{1,2}	1	•	2	P. Ramakrishnan, D. Röttger, J. O'Neil
365-1112-00	Digital Transformation and Disruptive Futures ^{2,4}	2	•	1	M. Cooray, R. Duus
365-1113-00	Digital Strategist: Developing New Digital Initiatives ^{2,4}	2	•	1	M. Cooray, R. Duus
365-1086-00	Change Management ²	2	•	2	M. Bourquin Arnold
365-1085-00	Business Experimentation ²	2	•	3	M. Zimmer
365-1142-00	Understanding Human Behavior - Research and Business Insights ²	3		1	S. Andraszewicz, B. J. Bergmann
365-1059-00	Practicing Strategy ^{1,2}	3	•	1	G. von Krogh, S. Herting
365-1067-00	(Un)ethical Decision Making: Alternative and Critical Thinking in Management ²	3	•	2	A. Vaccaro

Course Abroad (MAS MTEC students only)

365-1071-00	Course Abroad ²	4	•	3	MTEC Professor
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Further MTEC Electives (Selection) - More options can be found in the MSc ⁵ MTEC Course Catalogue

-----	Epigeum's Avoiding Plagiarism Online Course ³	1	•	0	-----
363-0790-00	Technology Entrepreneurship	1		2	U. Claesson, B. Clarysse
363-0861-00	Alliance Advantage - Exploring the Value Creation Potential of Collaborations	1	•	3	C. G. C. Marxt
363-0887-00	Management Research	2/3	•	1	N. Geilinger
363-1122-00	From Entrepreneurial Thinking to Market Relevance - How Startups Scale	2		3	A. Sethi
363-0448-00	Global Operations Strategy	2		3	T. Netland
363-1114-00	Introduction to Risk Modelling and Management	2		3	B. J. Bergmann, D. N. Bresch, J. Teichmann
363-1070-00	Cyber Security	2		3	S. Frei
363-0792-00	Knowledge Management	2	•	1	P. Wolf
363-1060-00	Strategies for Sustainable Business	2	•	2	J. Meuer
363-1029-00	Sustainability & Financial Markets	2	•	2	T. O. Busch
363-0393-00	Corporate Strategy	3		3	S. Ben-Menahem
363-1080-00	Power and Leadership	3		3	P. Schmid
363-1082-00	Enabling Entrepreneurship: From Science to Startup	3		3	A. Sethi
363-1049-00	Principles of Conflict Resolution	3		3	P. Grech
363-1051-00	Cases in Technology Marketing	3	•	3	F. von Wangenheim, S. Schaer
363-1028-00	Entrepreneurial Leadership	3	•	4	Z. Erden Özkol
363-0311-00	Psychological Aspects of Risk Management and Technology	3		3	G. Grote, J. Schmutz, R. Schneider, M. Zumbühl
363-1044-00	Applied Negotiation Seminar	3	•	3	A. Knobel
363-1084-00	Entrepreneurial Investments	4	•	3	F. Hashemi

Extrdepartmental Courses

You can earn at most 6 CP from other ETH departments. Courses at institutions other than ETH are not recognised. Prior to signing up for these courses you have to get approval from the Student Services (mtec-mas-student@ethz.ch). No credit points will be awarded for language courses.

MASTER'S THESIS

The Master's thesis is written in collaboration with an industrial partner, organisation or institution - either on a full-time (10 weeks) or part-time basis (16 weeks).

365-0899-00	Master's thesis ³	4		12	MTEC professors
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¹ Course has prerequisites. Please check the Course Catalogue for further information.

² MAS MTEC students only.

³ You must have passed the preparation course in your first semester of study before you can register for a Master's thesis:

"Epigeum's Avoiding Plagiarism Online Course".

⁴ Only one of these courses in Digital Transformation and Project Management can be taken during the MAS MTEC Studies.

⁵ MSc: Master of Science.

MAS MTEC regulations specify a min. of 60 CP and a max. of 65 CP for completion of the degree:

48 CP (max. 53 CP) for lecture courses and 12 CP for the Master's thesis.